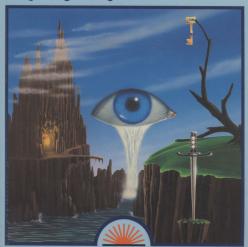
spectrum adventures

a guide to playing and writing adventures

tony bridge & roy carnell



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FOR JILLY - My real life adventure

Thanks to Mary and Stuart Galloway, for their patience - and to Magra, for waiting!

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PART 1

Your Spectrum, Your Hero

CHAPTER 1 Origins

Switch the light on, quick! There, that's better, now we can see a little further ahead into the gloom. The strange noises went away when the light went on, and now all is quiet. Ahead, an opening in the cave wall — let's go through and see what lies ahead for us.

Aha! What's this? A Black Rod lying on the damp floor of the cave. Go on, pick it up. Anything else around? No, that's it, so let's go further into the catacombs. In the next cave, an empty Whicker Cage lies discarded in one corner. Is it a tran? Try poking it with the Rod — wave the Rod at it —

nothing happens, so we might as well pick it up.

Now the faint sound of a bird singing comes from the next cave. Quietly moving into the cave, we can see a Bird happily singing on a rock not far away. That must be what the Whicker Cage is for Right, let's catch the little blighter. But it files away — something is frightening it. Well, the Black Rod looks a bit menacing, sole's drop it. That's better, the Bird has settled again, and is merity singing, oblivious to us creeping towards it with our Cage. The bird is causely.

with our Cage. In the bird is caught!

On again, pausing to pick up the Rod (no doubt it will come in handy later), to the next cave, with Lamp held high before us. Studenly a vast shadow rears up before us from the gloom! A houge Green Snake fixes us with his toy send sways before us. There is no other ext apparent, so we must up the company of the control of the

a white the Rod might work this time — but no, the Stake item' serviced whereing the Rod might work this time — but no, the Stake item' serviced to the stake of the Stake is no big to wait and the Rod the Stake is no big to wait the Rod the Stake is no big to wait the Rod the Stake is no big to wait the Rod the Stake is no big to wait the Rod the Stake is no big to wait the Rod the Stake is no big to wait the Rod the Stake is no big to wait the Rod the Stake is no big to wait the Rod the R

This is a typical scenario from a computer-assisted adventure, in which over violence does not play a large part, but there are variations in which your sword-arm and fighting sabilities take precedence over your reasoning powers. We'll look at some of these variations later, but for now, let's examine what we mean by adventure.

To find the origins of computer-assisted adventure, we have to look first at another pastime from the pre-home computer age. (Remember those days, before you spent your evenings glued to the latest version of Space

Invaders, or Zaxxon?)

A pastime as old as chess itself, and nearly as old as another pastime! War-games have been fought since chieftains had more than half-adozen men to their armies - after all, even the most basic of fighting manoeuvres need practising, and what better way of doing that than making a game of it, thus giving some incentive to the proceedings?

Some very complex versions of war-games have been mounted, but the one that most people will recognise as such is the tabletop war. This has been a popular form of recreation and a military training technique since the 17th century.

During the 1960s, however, books of rules to use with war-games made a commercial appearance, and became very popular. These rulebooks covered the smallest details of the period concerned, such as uniforms, weapons and logistics. The main periods were ancient, medieval, Napoleonic and modern.

There were, within these categories, many sub-categories, and one of these was medieval fantasy. Dave Arneson, of the Castle and Crusade Society in the United States, began a vast campaign, and expanded the original rules to offer a complete environment for the players. These rules evolved, with the help of Gary Gygax, into one of the most successful games of the century - Dungeons & Dragons, published by Tactical Studies Rules. Dungeons & Dragons, from TSR, presents the player with a highly stylised system of play, where nothing is left to chance, but everything played according to tables. It became extremely popular, and is still to this day. War-gaming in general now went in two directions - one headed by the traditionalist, moving his armies of miniature lead soldiers about his tabletop, measuring explosion effects with a steel rule, and the other by a generation weaned on board games.

Their preferred playing pieces were small cardboard counters, representing anything from individual soldiers, planes or ships, through battalions and divisions to whole navies and armies. These war-games are played on a board, marked across by hexagons to facilitate movement, and various representations of landscapes. The box games range from individual combat to global warfare, and from utter simplicity to staggering complexity, needing several days (or weeks?) to play.

However, Gygax and Arneson, in the early 1970s, forged a path of their own through the uncharted world of fantasy war-gaming and created a unique system of playing, with their game of Dungeons & Dragons. Although the name is jealously guarded by TSR, the holders of the copyright, D&D is often used as a generic term for this type of combat system.

The official term, however, for all the games that have sprung from D &D, is Role-Playing Games, or RPGs for short.

Let's have a brief look at how these RPGs are played. A complex of, originally, Dungeons (though this might nowadays be anything from a spaceship to post-nuclear metropolis) is designed before play starts by the Dungeon-Master. The DM then invites other players to explore his creation. It's possible for just one player to undertake this task, but a party of two or more players is preferable, as they can bounce ideas off each other, thus making for a more enjoyable game.

Each player controls a character, often represented by a little model (shades of a, by now, fairly distant relation!), and the party moves forward together. The play is made as real as possible, and the participants, apart from the DM, have no idea what awaits them as they venture forth. As they get to a closed door, or come to a blind bend, they will ask the DM what lies in wait for them. The party must then stop and decide what their next move

And here is a major difference between the fantasy war-gamer, or role playing gamer, and the Napoleonic and Middle Ages devotee. The latter attempts to recreate, in the smallest detail, a particular battle, or series of battles - and, if possible, to use their generalship to change the course of history. The RPG-er, as you will now be aware, creates his own world. Thus there are really no precedents, and each adventure is unique.

The DM, whilst taking no active part in the proceedings, nevertheless has profound influence on the game. Not only does he originate the dungeon complex, but he also populates the network with many monsters and traps for the unwary, as well as seeding the dungeons with plenty of treasures and other goodies. Another major difference is the idea of puzzles inherent in the Role

Playing Game - it is not enough to simply live a fantasy life by proxy. The player will, along with his colleagues, have to solve conundrums at every step, as well as fighting all the monsters along the way, The combat system used when characters meet monsters and other nice

people is complex, and much use is made of dice. Some, having more than the usual six sides, are called percentile dice, and give a degree of probability to the luck of the throw. Along with all these differences, there is another, in that characters may

become one of three main classes of characters. There is the class of fighting-men, which includes men, elves, dwarves and hobbits, magicusers and clerics. Add to these the spells that are a major part of the system, and you can see that this whole branch of war-gaming has departed quite a long way from our original tableton game with lead soldiers.

We've spent a long time discussing RPG's, and indeed several complete books have been written on the subject. The whole game system has one major flaw - at least from the point of view of a crofter in the highlands of Scotland, or the busy family man. And that is the time required to play, and the necessity of getting several people together at one time, prepared to devote a weekend to the pastime.

After the success of *Dungeons & Dragons*, it was only natural that many imitators sprang up, some making more impact on the scene than others.

imitators sprang up, some making more impact on the scene than others. Probably the most dendring of these has been Ken Andre's game Tanne'd at Froit. It simplifies the reise of D&D to a great extent, but featured and the properties of the properties of the properties of the properties of Damagon Master sets up a complete of exects (or in fast whatever ser of scenario he desires), and them the party of fellow-players is led tose to fast state ywill. Combats, inimilarly, moderated by the throw of felo, but TaT has no percentile disc. Spells are also inherent in TaT Try system, progressing in hard-ermed feels from the feloy's Jones-k hanck' (which opens locked doors) and "take that you friend (which superlocked doors) and "take that you friend (which supertor) and take that you friend (which supertor) and the supertor and take that you friend (which supertor) and

itself.

However, the main development of T&T, which has endeared it to many thousands of fantasy game-players throughout the world, and which makes it particularly interesting to us computer users, is the unique system.

of solo dungeons which has taken T&T as its game system.

These dungeons take the form of illustrated books, each containing a ready-made adventure which can be played, according to the T&T rules, by one person. Really a series of multiple-choice actions, in which the text acts as Dungeon Master the books are a boon to the player who is unable to get

together with other adventurers.

The great success enjoyed by these slim volumes is indicative of the great number of people who are unable to play full-blown RPG's, and who now look toward the computer as mediator, referee and Dungeon Master.

In the mid-1970s two enterprising chaps called Willie Crowther and Don Woods, whilst hunched over their huge mainframe computer, devised a game that they called Adventures. They were very likely D&D fans, as the scenario for their game included a complex of caves, peopled with assorted strange beings, and liberally scattered with treasure of all kind.

Like D&D, the player makes his way slowly through unknown territory, receiving information about his surroundings — but this time from the computer. A tireless referee and Dungeon Master, the computer is the ideal medium for the fantasy same.

Other games came along in the wake of Adventures, probably the most successful being Zork, withis its he forerumen of many of the adventure games implemented for the home micros of the late 1970s. The FET, Apple and Tandy machines were well-served with these for several years, while the original was passed, in disk form, around the circle of computer professionals. This free market was, however, rather black — the com-

panies which owned the big computers used by their employees for playing these illicit games, were, naturally, rather upset at this use of expensive computer time!

The obvious attraction of these computer-moderated adventures to the home enhusiast is that they can be played at any time, and alone, if no the home enhusiast is that they can be played the beginning to the being squite often illuminating to play these games with companions, each putting in the view on contribution, Whilst te game can often take one months to complete, the state of play can be saved to disk or tape and resumed it at moment.

The obvious drawback for the home enthusiast, is that in its original form, Adventures can only be run on a mainframe computer, costing a couple of hundred thousand pounds — not the usual living-room furni-

With the advent of the cheap microcomputer, programs of the adventure genre came within reach of the home user. Now solo play became possible to the enthusiast not lucky enough to possess an IBM mainframe.

CHAPTER 2 The First Software

At the time of writing, mid-1983, a new microcomputer is announced every other week. Some of these have turned out to be what has been called viapourware, that is, it never materialises. Whilst this is a distressingly common phenomenon in the computer business, there are still machines about, and very good machines. The initial software package that eventually arrives from the manufacturer of the computer invariably includes an Adventure program.

Back in the pre-historic era of micro computing, about five or six years ago, three machines dominated the scene. All were American, and all were yet expensive — and, incidentally, still are. All had implementations of Adventures and Zork written for them. The Apple I, the Commodor Pet, and the TR-88 of are still with us, in one form or another, but the cost of these machines in those far-off days served to keep the adventure club rather exclusives.

And then along came Sir Clive Sinclair. After single-handedly transforming the digital watch market with the Black Watch, and the pocket calculator market with the Executive (though only by virtue of their low oost and attractive styling, not long-term reliability), it seems, in hindsight, only inevitable that he should so no to concentrate on the comburer market.

The ZX80 was, however, still aimed at the hobbyist, and commercial software was practically non-existent. It was not until the launch of the ZX81, with its attendant sales pitch at the larger consumer market, that home micro computer sales took off, and with that the creation of worth-while software. Incidentally, this seems to be the exception that proves the

rule that software helps sell hardware!

Adventure programs for the ZSM are abundant and take several forms

— some are purely text, while others are graphic in nature, with every
shade in between. This follows the general trend in this area of software,
with some authors staying with the traditional approach, and others
treading a more innovative path.

We've seen the beginnings of computer adventuring in the Crowther/Woods original and Zork, but several other popular programs were written in the States, in the mid-1970s. As programmers became more efficient on their new toys, the ZX machines, so these older programs were adanted. Many of the programs taken for conversions were originally published in Doubled All's Correlación Computing, an American magazine. The most popular games included Hammusuhé, often mis-spel moused yas a Hammusuhé and the spel computing and the spel confidence of the production in magazine, and so many people in the city, you have to balance all the posterdates in order to last a certain number of years. This type of game has been much adapted since it noriginates that the production of t

Many of the adventure programs around today are actually descended from these management games, in their careful balancing of several ponderables

Stear Treek, first switten in the late 1966s in the flush of enthusiasm for the TV series, is a kind of Hammurabi, involving, as it does, a deficate juggling between weapons control and ammunition levels, with damage controls and repairs all taking their toll. This sort of game is ideally suited to playing on a computer, leaving the machine to take care of all the details of galaxy scanning and status reporting. Leaving you to get on with zapping Klingons! The day may scome, though, when somogene writes a Nat Tree.

program in which the aim is to make friends with the aliens...

**Wumpus was also written many years ago, and has survived, in fact
flourished to this day. The original game involved a search for the mythical
Wumpus through a complex of squares. Using clues given to you by the
computer, you eventually narrow down the choices, triangulatine onto the

final location of the beast.

We'll meet descendants of all these programs, Adventures, Zork, Hammurabi and Wumpus, in future pages. The early Sinclair machines, the ZX80 and 81, had many versions of the games written for them, and made commercially available on tape, or as listings in one of the many

made continectanty availation on tape, or as istings in one of the many books written for the machines. In particular, Artic Computing has produced an extremely worthwhile series of adventures imaginatively called Adventures A, B and C (well, they series of incomputers imaginatively called Adventures A, B and C (well, they did have the alternative titles of Planet of Death, Inca Treasure and Ship of Doom). They have survived since the early days of ZXmania, and are very

good adventures in the Crowther/Woods vein.

There are two reasons for their deserved success. First, the programs are, without exception, fiendishly difficult — but ultimately rewarding. Second, they are written in machine code (and this at a time when most software authors were still struggling with Sinclair BASIC), their software authors were still struggling with Sinclair BASIC), their

responses to players' input being correspondingly rapid.

Representative of the graphic approach to adventure is a personal favourite of mine (and I make no apology for mentioning it!), J K Greye's Catacombs. The game draws heavily on both Dungeons & Dragons and Wumnus in its same mechanics.

As the player explores an unmapped underground complex, various monsters are met. If the threshold of a room containing a monster is crossed, information on the beast is given by the computer. Then battle is joined, and blows exchanged until the player or the monster is finally defeated. As higher levels are reached, the battles become harder.

defeated. As higher levels are reached, the battles become harder.

Still available, Catacombs is a very good introduction for the

ZX81-owner, to this kind of adventuring.

Another, rather novel, approach to graphic adventuring is seen in Foilkade's Fantastic Voyage. Based on the science-fiction novel of the same name, the action takes place in, of all places, the human body.

The book (and film of the same name), concerns the exploits of a team of neuro-surgeons who have been reduced to sub-miniature size in order to operate on their patient — from within.

The game on the ZXS1 takes the form of a voyage around a map of the body, navigating your way through the maze of arteries and major veints map is supplied which may or may not help you, as the complex of blood vessels is difficult indeed to negotiate. Occasionally white corpuscles have to be shot at, arcade-style.

This is not strictly, I suppose, an adventure, but still it possesses the same kind of game mechanics as many more traditional programs in its search for the ultimate — in this case, the blood clot in the brain that has to be destroyed.

These are only two of many adventure games for the early Sinclair machines, but they all have the same disadvantages. Being written for the ZX80 and 81, they are all, necessarily in black and white — and mute. This is, of course, rather like saying that any black and white film is not worth watching, or any mone record is not good music. No, the classic programs will remain so, even in silent monochrome, and the lack of sound and colour may be, albeit rarefva, a vitue.

The arrival of the Spectrum has bought a veritable flood of software, 95% of it games-orientated. A sizeable portion of this is adventure in one form or another.

Artic Computing have stuck with the same adventures that were written for the ZXSI, merely transcribing them, complete with back text on white paper. At the time of writing, a new adventure has just been released—following tradition in being called Adventure E and subtitled Golden Adjustics, Artic has, with this program, taken advantage of the Spectrum's Coolourful.

The game, like A,B,C and D before it, is purely text, but the new Adventure seems, at first plaving, rather more traditional than the proton games. The program is written for the larger memory, so more detailed exploration of locations may be undertaken. It's a pity that 48K version of the previous adventures could not be released by Artic — there would certainly be a larger market for such an undertaking.

Other software houses have followed Artic in staying with the traditional approach, notable among these being Abstroif, Follikade and Level 9. Whilst both Artic and Follikade (with Adventure 2000, a reference to the number of locations in the game) have written their own adventure scenarios, both Abersoft and Level 9 have taken Willie Crowther and Don Woods' classic and translated it to the Spectrum. Both have, however,

Level 9, for example, in their Colossal Adventure extend the original to some 70 more locations. And two sequels, Dungeon Adventure and Adventure Quest, follow on from locations in Colossal. The three together make an interesting suite of games, extremely tough, but always logical and amusine

There are, of course, other programs that rely on text, yet, like Artic an usfollikade, do not follow the original ideas. Their distant relatives are usually Wumpus and Dungeons & Dragons (and sometimes, as in Mikrogen's Sorcere's Castle, Snakes and Ladders1). These programs include such as The Orb, from Quest Software, Velnor's Lair, from Neptune, and Volcanic Dungeon from Carnell.

But, while these last programs may contain limited graphics, such as floor plans or weapon lists, to enhance the text, they can still be thought of as text adventures.

The Spectrum, however, cries out for its colour and sound capabilities to be used, and many authors have indeed taken advantage of these features in producing their adventure programs.

These generally take one of three forms. The first is an extension of the original Advantures idea, with a text input required from the player, but relying heavily on graphics for the programs's appeal. Then there is the mazer/Wumpus type. Finally there is the purely arcade adventure, this type makes often makes use of D&D-atyle characters and combat, and also the element of puzzle-solving, but transforms all this into a real t

arcade environment of gut reaction and hand-eye coordination.

Let's examine some examples from the various categories over the next few chanters.

The difficulty in describing the text adventure is in attempting to convey the essential flavour of the game, without giving away the answer to a problem that may have been intriguing a reader for many weeks— and much of the fun in solving text adventures is in shaking a tough problem by the neck until it succumbs.

We'll have a look now at *Dungeon Adventure* by Level 9. Any reader who finds himself currently in this particular adventure should skip the rest of this chapter! Those of you who may be thinking of buying this program should not despair — nothing crucial will be given away!

Dungeon Adventure is part of an excellent series written by Level 9, of High Wycombe, which starts with Colossal Adventure, based closely on Crowther/Woods original Colossal Cave program, but adding some 70 locations to the end game. The final program of the trio (there may be more by the time this book goes to press) is Adventure Quest. All inter-relate with each other and form a large fantasy world which can be explored and

The opening scene of Dungeon Adventure, and the puzzles associated with it, is a very pure example of the classic adventure program, and will

with it, is a very pure example of the classic adventure program, and was serve to lay some ground rules for adventuring in general. The booklet which accompanies the cassette of *Dungeon Adventure*, is

The Booker which at Care 195 output. A page of seme-setting, with a brief match of the quality of Level 195 output. A page of seme-setting, with a brief match of the protagnain's decision to rush of f and search for the most of the protagnain's decision to rush of f and search for the larger teasures in the Black Fower, prepares you'for the start of the game. The rest of the booklet outlines the various commands you may give to the computer, along with several histo for the adventurer. Flankly, a unique touch in an envelope in which you may, if you get dreadfully stuck, beg Level 90 or a clue.

At the start of the adventure, you, the here, awake, cold and weaponless on a mudbank beside a large packing case, open at one end. There is also a pipe cof driftwood lying nearby. You see a stone bridge across a river, reaching from the granite cliffs above to the flat lands of the far bank. Now, you may, of course, go charging off upon to the bridge, eager to get on with exploring the caves which you secretly know are up there. And here we get to our First Colden Rule of Adventuring:

Look around every location in as much detail as possible.

Adventures of the traditional kind, which we are presently engaged in, almost invariably start off with the player alone and defenceless outside some sort of building.

In this present instance, there are some 170 locations to be explored within the cavern-complex that you will find over that bridge. Your chances of surviving to see more than about half a dozen of them are, however, depressingly remote! Very soon after starting off, you will find certain objects become necessary —objects which can only be obtained from the outside locations. That is, the locations which you will find on this soll of the objects which can only be obtained from the outside locations. That is, the locations which you will find on this soll.

the bridge.

You will find out all this after a couple of tries at the cavern complex — and now you can start a search for these vital objects.

We know that there is nothing useful — yet! — to be found by going north across the bridge, so let's try going south.

But first of all, we must not forget our first Rule of Adventuring, and now do around as much as possible. Now, if you remember, we are on a mudbank, and we can see some driftwood and a large packing case. Let's pick up the wood. Different programs recognise different commands for this action, and we can try PICK, TAKE or GET, the suusil ones. In fact,

Dungeon Adventure will accept TAKE, so now we are the proud possessors of a lump of wood.

There doesn't seem to be much to do with it, so let's concentrate on something else.

The packing case, if you remember, was lying with one end open, so it would be a good idea to go inside, wouldn't it? NO, it wouldn't loo, yo ret, anyway! Writers of adventure programs are a sadistic lot, and would like mothing better than for you to walk wide-eyed and innecent into a trail—maybe just like this one. So let's try another key word which you will often come across it readitional adventures; such as this one, and this is: Plant.

INE N (where N is the object to be EXAMINED!).

So let's type in EXAMINE CASE and see what the computer has to tell
us. The case is enchanted! Not only that but there is room for us to crawl in.

So we know now that we will not be eaten or stepped on by some passing

monster, and we can proceed unscathed, for the moment.
Let's leave the case here, though. There are secrets to be learnt inside, of
course, not least being the fact that the case is where you must deposit your
treasure in order to gain points and win the game. The riddles to be solved
in order to gain this information are fun to work, out, and I don't want to

spoil your fun at such an early stage.

Let's assume, then, that we've thoroughly explored the case, and are back outside on the mudbank, with our lump of wood. We have decided, maybe after several painful attempts, that we are on a sitcly wicher in trying to negotiate the dark caverns to the north of the bridge. So let's try sooins to the south from the bridge. I am playing the adventure as the sooins to the south from the bridge. I am playing the adventure as the sooins to the south from the bridge. I am playing the adventure as the sooins to the south from the bridge. I am playing the adventure as the sooins to the south from the bridge. I am playing the adventure as the sooins to the south from the bridge. I am playing the adventure as the sooins to the south from the bridge. I am playing the adventure as the sooins to the south from the bridge. I am playing the adventure as the sooins to the south from the bridge. I am playing the adventure as the south from the bridge. I am playing the south from the bridge is the south from the bridge. I am playing the adventure as the south from the bridge. I am playing the south from the bridge. I am playing the adventure as the south from the bridge. I am playing the adventure as the south from the bridge. I am playing the south from the bridge is the south from the bridge. I am playing the south from the bridge is the bridge is the south from the bridge is the south from the bridge is the bridge is the south from the bridge is the south from the bridge is the bridge is the south from the bridge is the south from the bridge is the bridge is

writing, so this is a voyage of discovery for all of us!

We are now on an east-west road south of the river across which runs the bridge. A gigantic or's head is carved into the elift north of the river, its totogue forming the bridge. A rulned tower stands on top of the cliff. Exists are EAST, WEST and SOUTH. This is the standard formula for text adventures — enter a location and a brief description is given, with a list of possible exists. Actually, the description of the various locations are rather detailed in Level 9's adventures, which is thanks to the larger memory available.

Usually, another list is also given — that of the objects and/or monsters or other entities to be seen, and the things that you may be carrying.

There is nothing to be seen lying around at this location, however, so we have to make up our minds which direction to take now. We have no clues here, so let's toss a coin and take the east road. The next location is, again, the east-west road, but now we are further along and we can see to the south a flat grassy plain, stretching as far as the eye can see.

This is one of those phrases that you will come to treat with respect. It usually means that if you once set foot in the location to which it refers, you will be lost forevermore — or at least until you give up in sheer despair! So we will give that grassy plain a miss for the moment. However, we can

also see, so the computer informs us, a line of stepping-stones, which leads to a small island in the water. A young girl with flowing locks sits on the island—how sharming! Solet stype GO NORTH. The computer informs us that we are now on the stepping-stones, and the girl is still sitting there on the island. We type GO NORTH again, Oh dear! The girl was a sizen, and sings her siren song—we flounder into the treacherous waters of the river. The computer informs us that we have managed to ext ourselves killed.

The program now dumps us back on the mudbank, and we have to retrace our steps back to the east/west road, just south of the bridge. This time, let's explore to the east. We type GO EAST, and the computer duly tells us that we are now further east along the road, north of a steep, treeless hill.

That tredes hill some to be worth investigating — going south, we come the side of the teach) link which rise in the clouds. Rumblings emanate from above? We can go UP bere, so let's do so. We are now in a criter of distorted mostilist, becked into groescape figure by the and far in Light distorted mostilist, becked into groescape figure by the and far in Light distorted mostilist, because the contract of the c

We have to play, and after all, it sounds quite a bargain, doesn't it? Unfortunately, we need a way of loading the dice (these Rakshasa are pretty cunning), and we haven't found it yet, although I might say that it is to be found somewhere in this opening sequence. As you may expect, we lose this particular game, and once again find

ourselves, after being asked if we want to play again, back on the mudbank

— we're learning each time, though, aren't we?

Let's get back to that stretch of the road just north of the steep hill where

we recently met the Rakshasa. We won't go back there again until we find the method of winning the dice game. So we will continue west to see what

awaits us there.

And now we see a vast field of poppies which stretches west as far as the eye can see — and where have we seen that phrase before? We must tread very carefully here! A sommolent perfume hangs heavy on the breeze.

Nearby we can see a dry poppy seed joing on the ground. Let's pick it up, by typing TAKE SEED. Now, let's retraceour steps — I have a strange feeling about that field of poppies!

We can work our way back along the road, past the steep hill, and the bridge, back to those steeping-stones. As we have a poppy seed with us now, we might be able to use it to fight that siren. At the steeping-stones, we type GO NOFITH, which gets us onto the stones. Last time we were here, we got unceremoniously dumped in the water when we tried to proceed further north past the siren, so let's be a little cautious this root. We might as well try the poppy seeds now — we'll type THROW SEEDS and see what that does. (I'm condensing a lot of heartache here, and a lot of effort in finding the correct solution!) The seeds, in falling, burst with loud explosions. Did they frighten the siren off?

To accomplish this we have to give a command to the computer. Type LOOK, and the computer will obligingly inform you of what is at the location. Quite often, of course, the answer you get is '1 see nothing special', but the question is, like EXAMINE, well worth asking. LOOK should not be confused with REDESCRIBE (REDES or R for short), which will

instruct the computer to do just that with the present location. Back to our present problems. Having tried LOOK, we find that the siren is still there, sitting by the river! Now we! lintroduce yet another useful word — LISTEN. Unpleasant things have a nasty habit of hiding behind trees or rock, out of sight of the computer, but can't help making

slimy, squidgy noises, which will give them away!

Ah! Now we're getting somewhere! The computer tells us that we have been temporarily deafrend, and can't hear anything. Although she must still be singing away as a good siren should, we won't hear her, so it's probably safe now to creep nast her. .. but she's so tu sagain! The temporary

effect of deafness must be very short-lived.

Here we are back again at the mudbank. Now we can wate on times be genting back to that peeks vitere, not foregating to collect the people seed. An other word worth remembering, and which would help us in the control of the people with the people with the people with the people with which means that you can save your present stage of play to large. You should, if possible do that begin and done this converte stage of play to the people with the possible do that the people with the people w

But here we are again, and we've dropped the seed, which duly explodes. We'll SAVE our position in case we are discombobulated yet again, and this time let's get on with it and rush past her. After all, we know now what effect the explosions will have. And — it works! The siren flees in panic, seeing that her song has no effect on us. In fact, the program will, at this

point, allow you up to four commands before the deafness wears off.

And this is another ploy that the better adventure program will use.

Approach a problem in one way, and the result may be completely different from the outcome of another attempt.

We're now at the southern end of a small island — the far end is occupied by a vicious-looking willow tree with six long rubbery branches. A silver mirror lies nearby. We can TAKE the mirror, but if we try and get past the tree, we will be killed. Why six branches? There must be a clue there!

Let's leave Dungeon Adventure now. This particular game is extremely

rich. We've only covered a few locations and I haven't mentioned the resurrection procedure which you will need before playing the game for real, and several other important details which can be found in the opening scenario.

Actually, this whole sequence, which consists of some thirty rooms is only an introduction to the main adventure, which takes place in the cawe complex that we saw at the start. The original Adventure program started with the player standing outside as small building in a forest. This building containand several articles required for the adventure, such as keys, feed and water—any treasure had to be brought hack to the building. The very large extent of footscine which the feed to the contained the start of the contained the con

After our first, fumbling attempts at Dungeon Adventure, you should have gained an idea of what it feels like to play a text adventure (and feel motivated to play Level 9's adventures yourself).

We've learnt several things in this chapter which help you when playing a standard adventure. In the next chapter we take a look at arcade adventures.

CHAPTER 3 The Hobbit

The Sinclair Spectrum, with its colour and (very basic!) sound, understandably has had an awful amount of arcade, zap'em, software written for it. Without wishing to enter into a discussion of the state of play into microcomputer world, it is nevertheless obvious that the vast majority of microwers concentrate on reaction games — and why not?

After our short analysis, at the start of the last chapter, on the two styles, text and graphic, of adventure programs, let's turn now to the graphic.

And within this category itself, we find two distinct sub-categories.

And within this category itself, we find two distinct sub-categories.

The first is best represented, at the time of writing, by *The Hobbit*, by Melbourne House

The Hobbit is probably the best known, at least by reputation if not personal experience, of the adventures available for the Spectrum. All of a classic, it is still the most talked about and puzzled over. In the true tradition of software progress, other programs will arrive that will, no duly, improve upon The Hobbit, but none can now usurp its place as the first truly areast adventure for the Sockertum.

The Hobbit, by J. B. R. Tolkken, is, if you like, the preface to the monumental Lord helf Reng, probably the riches source of material for the adventure writer. This was work, with its three volumes of abboulted vieting stoory, and upporting historical documentation in The Silma-Villion (topother with en-cyclopadec information from authors such as Impy Tyler, with his Tolkien Companion), in an abboulte goldmine of ideas. Melbourner House pulled of I fabulous coup in acquiring the rights were The Hobbit from the Tolkien extant, and has produced specification. The International Conference of the Conference of the International Conference on the Conference on the International Conference on the Internation

The basic concept had been used several times before The Hobbit was written—a text adventure in the good old style, upported by graphics. Melbourne House has taken many scenes from the book, and illustrated them with beautiful high-resolution pictures, using an impression of the pictures, drawn by Tolkien himself, supporting the text in the original book. This was a logical progression from the earlier programs from other writers which featured block graphics. The other important details that set The Hobbit angot from previous text/graphics adventures is what Mel-

bourne House calls Animation and Inglith. Animation means, in this context, that the characters in the program, such as Thorin, Gandalf, and the various monsters, like Gollum, the Butler (the cit of it, by the way), and the wood-ever, early on their own lives while you call the Buggins, set on with the adventure. In practice, this means that chars releve walking in and out, singing about gold and so on. Gandalf has or leve walking in which will be considered the control of the cont

Inglish (and that is no misprint!) is Melbourne House's term for compound sentences.

Now let's imagine that you have reached the Dragon's lair. He is, of course, guarding the gold which you have battled through many dangers to retrieve from his clutches. When you arrive, you want for draw your sworf, fight the dragon, and then collect the gold. Most programs would require you to type in several commands before the final objective was achieved. So you might well have to type: "DRAW SWORD?", "KILL DRAGON", then finally (and if you were successfull), "GET GOLD'ST.

then tinaily (and if you were successful!), "GET GOLD".

The Hobbit however, will accept commands such as: "DRAW SWORD AND KILL DRAGON, THEN GET GOLD AND LEAVE", thus saving finger stress, but also having a more natural feel.

The adventure may be solved in many ways. Unlike the traditional programs, in which there is only one solution to the complete puzzle, The Hobbit may be completed by any one of several methods. A percentage SCORE is given throughout the game, and people have finished the adventure with scores a low as 42%, and as high as 210% It he air memains the same, however, to rescue the gold from Smaug, the dragon, and return to the conflort of your own home under the hill all 8Bg. Elm.

So whichere way you choose to solve the game's ultimate puzzie, there is a different game availing you should you with 10 plays it and the suncher way. In a different game availing you should you with 10 plays it and is, a disable, the properties of the plays of th

So The Hobbit, whilst being, on the surface, a traditional adventure, nevertheless plays in a unique way. The puzzles set by programs in the classic style (programs like Level 9's) have one solution (usually!) which remains the same. Once you have completed the adventure, that's it. Of

course, the puzzles may take months to solve, and several programs have atten seawhich at a said of deliverisoment—all those locations off the beater track of the game, which play no pair in the solution, but which under serve to emeritary forms power. "OTO PULL, TO ENTIR": Does this means that the Spectrum's memory is too full for the programment, which there is no server to the programment of the programmen

There has been, and there will, I hope, still be in the future, lengthy discussion on *The Hobbit*. If you have wondered whether to buy this most charming, frustrating, annoying, beautiful program, rest assured that you will enjoy many hours of good adventuring!

CHAPTER 4 Graphic Adventures

Although The Hobbit is the most accomplished, there are many adventures which support their text with graphics of some kind or another. There are, however, others which are pure graphic programs.

We can determine two rather obvious categories of graphic adventure. The first is descended from Wampus, a game we have met before, whose popularity can be ascribed in large part to David Ahl of Creative Computing. We'll look in detail at a program of this category in a moment. The arcade adventure, the other main variety of graphic program often relies on Dungeons & Dragons for its combat mechanics, but can really be bestowed with any scenario.

To see what we might expect from a version of Wumpus, let's look at Sorcers's Castle, written by Milrogen. The scenario concerns Murtceps Sorcers's Castle, written by Milrogen. The scenario concerns Murtceps (that name look familiar, for some reason), the sorcere with the opportune with the control of the source of the source with the control of the source deal about your mission, which is to find Murtcep's Great Crown. While the set-up procedure is going on, the computer counts down with the aid of a large on-screen clock — this way you know that the program has non hunguised to some things of the source of th

After this initial set-up, the player is asked to choose which character he wants to play from a list of options. He may be:

a dwarf an elf a fighter a hobbit

or a wizard

Then the player is asked if they are male or female. I have to admit that
the effect that this question has, on the running of the program at least,
seems to be mioingal.

But depending on what the answer is to the character list, points are given out to the player in three important departments. Thus, if the player chooses to be a hobbit, he is given 26 points, in the following way:

strength 6 intelligence 10 dexterity 10 Should he decide to choose an elf as his alter ego, the points are distributed slightly differently:

strength 6 intelligence 8 dexterity 12

The fighter, as you would expect, has a lot of strength, and quite a high dexterity. Following the good old D&D tradition, he has, unfairly, a very low intelligence:

strength 14

intelligence 4 dexterity 10

And so on. However the player decides, he is then given six extra points, to allot as he likes (and if you press a wrong key, the computer has an answer

- for example the fighter will find the computer sneering at this IO of 4). Then on to the local armoury. This has a list of assorted bits of armour and weapons that you might like to take with you. You have 60 gold pieces, and may choose from (and the prices are in gold pieces):

| armourplate | e 30 | swords | 30 |
|-------------|------|---------|--------|
| chainmail | 20 | maces | 20 |
| leather | 10 | daggers | 10 |
| lamps | 20 | flares | 1 each |

Let's play Sorcerer's Castle. We have decided, after looking at the list of options, to become a fighter, and we have used our six extra points to end up with our attributes distributed thus:

strength 15 intelligence 6 dexterity 11

And we have purchased from the armoury:

chainmail a lamp a mace

Once equipped the adventurer can now enter the castle of Murtceps. The program tells you:

YOU ARE NOW ENTERING THE CASTLE YOU ARE IN ROOM 1-4 ON LEVEL 1

YOU HAVE: STRENGTH 15

INTELLIGENCE 6 DEXTERITY 11 VOLLARE WEARING CHAINMAIL AND CARRY A LAMP, A

MACE OF LARE + O GOLD PIECES HERE YOU FIND THE ENTRANCE

WHAT DO YOU WANT TO DO?

Now is a good time to press H, which is the HELP key. Unlike the text adventures we have seen before, this does not result in a cryptic remark from the computer, but a long list of possible options for the player to take. No hours of head-scratching to find the right word to invoke a response from the program!

The HELP list shows up, amongst many other options, that we can type just the first letter of the direction that we want to go. There is also a (M)ap command so let's enter M. and see what happens.

The computer answers with a map of the present level:

You are in room 1,4 on level 1

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The map shows us that we are in a complex of rooms, or dungeons, or what you will. We are currently at top centre of the network, in the square marked E, which is the entrance to the castle.

What do we do nov! Well, we could, of course, go charging off in any old direction willy pells, but... If we did that some moment would probably rip our silly heads off, so let's panse awhile and think the suitand over. If you remember, at the start of the game we were given the option of buying several weapons. Amongst these was that innocuous time, the imp., We may, imprudently, have passed over this particular weapon, having spent all our money on swords and mances. Hard heat 'the weapon, buying spent all our money on swords and mances. Hard heat 'the will be made to the most important weapons into ur areast. Without the imp we cannot see what is migration weapons into ur areast. Without the imp we cannot see what is equal to the most displaced the most displaced to the most dis

Luckily, we had the foresight to purchase one of these extremely useful items. To use it, we must, according to the HELP menu, type in (L)amp. If we do that, the computer answers with:

"Where will you shine the lamp"

As we are starting off, it doesn't really matter where we shine the lamp—
all locations are unknown to us. We remember from our sneaky look at the
map that we are currently on the northermost wall of this level of the
castle so we can't move northwards anyway. Just to see the effect,
however, of this, let's tyee N. The program responds:

"Your lamp shines out of the castle door"

We can't go that way (like it or not, we are now in the castle for good), so we have to go to the south, east, or west. Let's tos a coin and shine our lamp to the (Wyest. The status report appears again, as it does at every closation, and we are also given the information that we can see gold pieces in the next room. We might as well have these, as we may well need some money later in the agame. As we are going quite well in this direction, well keep on going west, not forgetting of course, to shine our trusty lamp shead of its.

The computer tells us that in the next room to the west is a Warp, whatever that might be. Until we have found out what that is, we'll leave it well alone. Let's see what's to the south.

The computer tells us that in the room to the south is a chest. That doesn't sound too bad, so let's type S(outh) and see what it's all about. Now we are in the room with the chest — what shall we do now? The program is waiting for our answer, so we type in H(elp) to see the menu of ontions. Halfway down is.

O to open a chest

YOU OPEN THE CHEST; IT EXPLODES!

It goes on to give your status, as it always does, but, unfortunately, says no more about the effect of the exploding chest. Maybe it has weakened us in some way, but no more is said about it.

We'll carry on, undismayed, and see what might await us to the south. Shining our trusty lamp into the room, we receive this message from the computer:

YOUR LAMP SHINES INTO ROOM 3-3 THERE YOU SEE THE SILMARIL

The Silmaril is a jewel created by Feanor, an elf of Middle Earth. Actually, there were three of them, so maybe the other two are to be found elsewhere, within Murtcep's Castle. The jewels are very powerful, so it must be worth getting them. We'll go south to get this one. And the computer tells us that:

YOU NOW HAVE THE SILMARIL

So it is obvious that we merely have to move into a room to get the treasure that it may contain. Let's keep moving south, we've had pretty good luck so far, apart from the chest. And now we see more treasure!

Something called the Norn Stone, whatever that may be. Let's get it — all this treasure feels sood, doesn't it?

We'll try a different direction now, and shine our lamp westward. Waiting for us in Room 2-4, so the computer informs us, is a Bear. If we move into this room we are given a warning by the computer that there is danger about, by means of a very tuneful warble. We are told what monster is presently there, and given a little menu of ontions:

(A)TTACK (R)ETREAT

(B)RIBE

We merely have to type in the first letter of the option we choose. Let's have some fun and type in B.

Oh dear, (or words to that effect)! The only way that the Bear will allow us to escape, is if we give him the Silmaril. And we've only had it five minuted Ah, well. Let him have what he wants, we may well find the other two Silmaril soon. Having escaped his clutches, we can carry on with our trusty lamp held high before us.

To the east, we can see a Crystal Orb. That sounds as if it should be interesting. Moving in Room 1-4, we only find the Crystal Orb. Taking a peek at the Help menu, we can see that the command to use is:

(G)aze into the Orb

The Orb tells us that it sees us being killed by a Wolf! Obviously we have to stay out of the way of Wolves for a while.

From here, we can see, to the south, stairs going down. To the east, we ee—yup, a Wolf. So south has to do for the moment. Actually, when you enter a room with stairs, you have a choice of going down, or up, or just passing through. We'll pass through this time, as we are having quite good fun on this level, without braving the unknown deeper in the castle.

We look again to the south, and here we see, in Room 1,6 a sinkhole. I'll use my inside knowledge of Sorcere's Castle to tell you that entering a room with a sinkhole in it will deposit you at some random room at some level deeper in the castle. This would appear to be a good time to stop!

Soreors's Castle is an excellent text-based version of the old Wampus. The castle complex contains many weir and wonderful things that I haven't mentioned. Things like the occasional Book, which may impart a great knowledge, or may turn out to be a booly-trag, which will stick to vojur weapon-arm, thus reducing your effectiveness in a fight. Or the fallers, which will momentarily show you the contents of Balfa-dozen rooms around you, Or the Vendors, who will try and sell you, at vauly institute prices, near armour and weapons for may even attack voul).

To see how Wumpus may be interpreted with the addition of graphics, let's turn now to The Valley, from Argus Specialist Press.

Originally published as an extremely well-documented listing in the magazine Computing Today, The Valley is non available for many of the popular micros. The program's author is Henry Budgett, editor of Computing Today—or at least, must one alto the His for its development. Although written in mid-1980 the program only shows its age in one detaal. It does not, unfortunately, AUTO-OR too. It coaling, which is extremely unusual nowadays. Although full instructions are included, within the packaging, on how toge started, this is no oversight that should be reme-

died.

When RUN, the title page informs you that this program is:

THE VALLEY (48K)

If you didn't have the expanded Spectrum, you would not be reading the title page!

After this, however, the program gets much better. A couple of pages of instructions are given, giving the player the movement keys (the usual cursors, and combined keys to give diagonal movement). After this, a menu of

characters is presented. The mechanics of the game depend heavily on those from *Dungeons & Dragons*, as well as from *Wumpus*, and this can be seen from the character list, from which you may choose to be:

a wizard a thinker a barbarian a warrior

a cleric

The character you choose at the start will determine the game's tackic, waterd, for instance, will have much more Pei-strength ham Barbarians, who will, conversely, have a greater combat strength. So the original characters must be choose carefully. As in any conventional role-playing game, players will have their favourites, and there is a nice little character-saving routine with will allow you to continue the game over several sessions with the same character — or try different characters to see how each type fares.

Incidentally, if you feel a bit mischievous and press a key other than those specified in the menu of characters, you get labelled as a DOLT, and dolts don't last long in *The Valley*.

The senario concerns the land of Tybollea, awed from the Selric hordes by Princess Esman, and the mighty wiard Vounim, who together forged strong magicks to vanquish the foe. In gratitude, Evanna bequeathed to Vounim The Valley, which hay between the two Castles. Vounim, however, fell into the ways of cvil, and Evanna eventually had to find some way of ridding her land of the wizard, who had now built a temple to the Lizard Goddess YNagolius.

Evanna could find no-one to help her in this task, and set off on her own to vanguish the evil wizard.

Alarian, a young wizard of Evanna's court, had been apprenticed to Younin, and gave the princess an amulet, studded with six precious stones. The amulet had magic powers, and could bestow upon the wearer life after death.

Bearding Younim in his lair, Evanna vanguished him. The evil wizard's

might was considerable, however, and the brave princes succumbed to his grave magic. Though not before she had hidden the amulet in the Temple of YNagloth and distributed its six stones about the six floors of the Black Tower. Her final act was to transfer her magic to her Helm, which she then hid in Vounin's Lair: where she perished.

Peace reigned over The Valley at last, with Alarian the young wizard acting in the dead princess' stead.

Now, ten thousand years later, the evil wizard Vounim is attempting to regain his hold over The Valley. Alarian, as you might expect, is rather

physically weak by now, but has bought together a small band of adventurers to help him find the amulet with its stones, and through them, the Helm of Evanna. Only with the Helm can he conquer Younim once and for all.

That is the sort of scenario which you will find time and again as preface to many adventures — it's rather nice, don't you think? The original article contained some two and a half closely-printed pages of this stuff. Do all computer magazine editors have virulent imaginations?

The program now sets up the main screen graphics. A "safe path" is created at random, though it will generally wind from the left hand side of the screen from the "safe castle" there, across the valley to the right hand side.

Dotted about the playing area are forests and swamps, and The Black Tower. In the forest you will find Younim's Lair, while the swamp contains the dreaded Temple of Y'Nagjoth.

Below the map is your status report, showing the amount of treasure you have collected, your experience, number of turns, combat strength, psipower and stamina

You may move along the safe path without harm. However, one of the main aims of the game is to gain experience points, by fighting monsters, and thus progress through 28 levels, from lowly "MONSTER FOOD" (although you actually start at the higher grade of "PEASANT"). all the way to "MASTER FO DESTIN", encompassing along the way to "MASTER OF DESTIN", encompassing along the way "HERO", "SUPERHERO", and "PRINCE OF THE VALLEY"—not bad for a mere computer freak, is in

So, you could stay put on the path, but you would get absolutely nowhere! In *The Valley*, utter caution is rewarded no more than reckless foolhardiness.

Move off the path, however, and the adventurer is fair game for all kinds of wandering monsters.

And the monsters are really vile! Here you will meet such lovelies as Bal-

rogs, Orcs, Water Imps, Ring Wraiths and Fire Giants amongst many others, with one or two really HEAVY monsters which you would do well to avoid — and about which I am certainly not going to tell you!

If, and when, you stumble across amonster, you may be lucky enought to catch it by surprise, and get in the first blow. You do, though, have the choice of attacking or retreating. There is no bribing in this program—the monsters only want one thing, your blood! This game is in real-time (this means that everything happens at the same speed as real life), so when the computer urese you:

"STRIKE OUICKLY!"

it is no idle command. If you don't respond immediately, you will have lost the initiative, and the monster will get in the first blow — and this holds true throughout the combat sequence. Three choices of physical attack are open to you — you may strike at the body or limbs of your enersy. And you'll find that this method of attack is accurate, but takes longer to wear the bestat down, allowing him more time to stash away at you! Or you may elect to go for the head, which is not so accurate, but usually fatal when it connects. If you miss the head, of course, your adversary is likely to duck under your arm and get in a sneaky bilow.

If you gat a hir fed up with slogging it out with your word, you may call up a sqlt. There are then exaitable, although not all at once. The lowest-naking spell is SLEEPIT, which of course strust the mounter, that facilitately your exage. The spell by the Criverse as may consider the spell of the process and the spell of th

In moving around the open countryside of *The Valley*, you will meet many monsters (we've had just a glimpte of them), but you'll also find places of great magic, and ancient power, which boost your psi-power, or combast strength. Conversely, you may stumble into a circle of evil, which will deplete both your stamina and your magic. Of course, you may also come across a board of gold, which will add to your treasure, and make you a little richer.

All this wandering about is a good way of collecting experience points. If you feel strong enough and fast enough, you can wander around for as long as you like. The program will keep seeding the valley with new monsters for you.

In the end, though, you'll want to get down to some serious treasursecking, and this can only be achieved in one of the mysterious buildings.

To enter, for example, the Temple of Y'Nagioth (which is, if you
remember, where the dying Evanua neverted Alarian's amulet), the player
must head for the Swamp. As his character-token moves onto the square
must head for the Swamp. As his character-token moves onto the square
the strength of the stream of the stream of the stream of the stream
temples situated somewhere next the middle of the swamp, surrounded by
a most.

The adventure has first of all to navigate the bogg manshand, with of course), its attendant creatures, and then bronos. Here, a different kind of fixed is met. — Water Imps and deadly Kraikens and so on. Hersing survived these, we boy, the player may then enter the Termijke, whereupon the some changes once again to show the floor-plan of the Temple. Again the player moves around a will, meeting monsters, some of them unique to this location. The other buildings too, have their own peculiar monsters. In the buildings, however, the location of the treasures may be seen by

the player, and he will naturally head toward them - after all, in the Temple, one of those treasures will be the Amulet, which is the first objective of the game. Some of them, though, will turn out to be mere worthless baubles. They are all, anyway, situated a long way from the

player's starting point! In The Valley, as in all good adventures, text or graphic, the various

parts of the game fit together like well-oiled machinery. The player will, first of all, have to find the amulet, then go on to the Black Tower of Zaexon to find the six stones to fit the Amulet. These can only be found if you have the Amulet, and must, moreover, be found in the correct order. The documentation that comes with the tane, exhaustive though it is, does not tell you what that order is, although the original article did (hard luck if you haven't got a copy!). Only after doing all this (and don't forget, you'll be fighting every metre of the way), can the intrepid traveller then go on to Vounim's Lair, in the forest, to find the

Helm of Evanna. The Helm, however, will only be found when you have achieved the rating of War Lord (which is 25 on our scale of 0 to 28). As it will take many hours of play just to get out of the Cannon Fodder classification you can see that the Save Character and Game routine is essential.

The Valley is an almost perfect fusion of many of the elements that go to make up this type of Dungeon and Dragon-orientated game

We have, first of all, a good combat system, with adrenalin-numping action, good graphics, good monsters and, a detail that escapes many authors, a built-in high score table in the ratings - a character can be built up over many hours of play, from lowly Monster Food to Master of Destiny, Players will find themselves rooting for favourite characters, who become stronger and more potent as each level is reached.

The interlocked tasks set the player in The Valley are a necessity for the good adventure program.

Only one small point could be improved upon - the monsters themselves are not shown graphically, although full information on each one is given below the map of the playing-area. It would be nice to have a little picture of the Ring-Wraith as it belts you.

One main advantage of this program, for us budding adventurers is that it is written almost entirely in BASIC (except for a small sideways scrolling routine at the start). RFM statements are included in the program, and they are extremely clear - even to showing the graphics that will be built up from the RIN statements

Having survived Vounim's Lair, and the Temple of Y'Nagioth, not to mention the six horror-filled floors of the Black Tower, you probably think you can sit back and rest. Not a bit of it!

Now try Crystal's Halls of the Things. Not six, not seven, but eight (count 'em!) floors of maze-like corridors crammed with utterly bloodthirsty creatures (or Things).

The packaging is excellent - a stout, rigid plastic box with an excellent slip-in cover with full-colour artwork houses the cassette. The instructions

for play are on the reverse of the sleeve. While the program is loading a screen is presented to the player, containing all the protaganists of the game - you (a little humanoid), the Things (various shapes, pyramidical, triangular and so on), Treasure (piles

of golden nuggets), and Elixir (bottles of stuff). The same is nure arcade, and in my opinion, one of the best for the

machine The scenario is, unlike The Valley, rather sparse, but again, we have an

excellent balance to the game. The top seven floors contain, somewhere amonest them, seven rings. These must all be found before entry to the final, eighth floor can be gained. On this floor is the key, which will give you entrance to the drawbridge, which is the way across the deadly acidfilled moat which is your only exit from the tower.

The scenario is, however, unimportant, as this program is pure arcade. Following the author's recommendation, the beginner should start at the highest level, which is the easiest. Climbing the stairs you will see the energy harriers to all the floors (except the lowest). Whilst on the staircase, your little man is perfectly safe, but stepping through the barrier will unleash the denizens of hell.

Each level is a maze-like complex of corridors, patrolled by bloodthirsty creatures (the eponymous Things). In this program, there are no choices. as in The Valley. You are not asked whether you want to (a)ttack, (r)etreat or (b)ribe. These lovely creatures want one thing only - your blood! And they have an uncanny knack of lurking around corners waiting for you to walk into their trap. You can, if you like, wait for them to finally make the first move, but beware - more Things will creep up on you as you are waiting

Now, if you attempted to hunt for the Rings without weapons, you would not survive long (about three seconds, actually), so the authors kindly supply you with several.

The main weapons available to you are magical. Fireballs are used singly, and have the amazing ability to seek out the monsters even round corners, so they're pretty potent - but they use up a lot of your magic, and may only be used one at a time. A lot less draining on your powers, yet maybe just as effective, are the Lightning Bolts. These are best used in multiple salvoes, and they rebound throughout the neighbouring corridors, scouring the area for Things, You'll see their remains lying, smouldering, where they have been incinerated.

The other weapons are non-magical, and should be used to preserve your magical strength. First of all, you have many arrows. To use these to full advantage, you should cautiously poke your nose around a corner. If there is a Thing nearby, it will then loose off a Lightning Bolt or Fireball at you (set, shelp have he same deadly magie as you, I'm afraid, Having thus determined the presence of the enemy, the player then sets the cunner key in the required direction, and swiftly moves on into the corridor, loosing off as alwo of a dozen or so arrows. Effective at short range, the arrows should make short work of any nearby Thing. I you find magie projecties still being burted your way after your flight of arrows, you can loose off more arrows, or hard a few Lightning Bolts, which should do the

If you get really desperate, you may use your sword, but if you are close enough to use this, you will be sustaining some pretty awful wounds.

By pressing the I key, the action is halted, and you are allowed a look at the Satus Report. This will show you the amount of maging you currently can call upon, the amount of maging you currently can call upon, the amount of women the manust of women you have left, and the amount of wounds you have leftered. This is important, because, in The Hall of the Things, there is no such ciscy thing are free leves, not even three! No you only have one lift, and this will be a fire lives, not even three! No you only have one lift, and this will be lift in the sum of the sum

The state of the s

game's authors.

But all this is as nothing, when compared to the sheer addictiveness of the game. The Hall of the Things has that essential simplicity, once all the keys are learnt, that will keep the player coming back again and again to play it.

So we have now seen four programs that illustrate the main types of adventure available for the new machine. In the next chapter we will meet some of the inhabitants of these games.

CHAPTER 5 Meet the Cast

We can start having some fun now, and look at the monsters, treasures and locations that might be met in the typical adventures.

Monsters

The term monsters, for our present purpose, can be applied to any character in the program that is out to do us harm — and they are not always recognisable as such!

Like the programs themselves, we can see distinct categories here. The classic adventure, descended from the original mainframe Adventure, descended from the original mainframe adventure, contains fairly passive monsters which tend to sit there, waiting for some norbillant strategerm from the player to scare him away, as the snake day, as the snake day, as the snake day our introductory scene at the start of the book. Or we may have to avoid the monster by finding a way around him.

The evil dwarves are a notable exception in the Colossal Cawern advantures. They appear occasionally to throw a weapon at the adventure. The first dwarf throws an axe. This must be picked up by the player and the thrown at the succeeding dwarves. They are all harling kaives, after the initial axe, but if you remember to keep retrieving the axe, you should have no trouble in surviving their attacks.

In Level 9's version of the classic, an endgame is included that extends the original to some 70 new locations. And here you can really get your own back on those little dearwest 19 dy oropping dynamite near a crowd of them, you can score many points. Incidentally, during this finishing sequence, you can also score points by saying from death a number of elements.

As played originally, on mainframe computers, after hours, the printer was often the only means of seeing what was happening — so blow by blow combat in D&D style was not really feasible.

This leads us to the next monster category, which we find in the action, or areade games. In this category, the monsters are extremely active, and definitely out to get you! The combat system from the role playing games like Dungeons & Dragons is often used in these games, as exemplified in The Valley. And the monsters themselves, as belf its teneserty of this type of game, are of the leg-ripping, skull-crushing, heart-stopping type commonly met in PGGs. There follows alist of some of these lowly thinks:

Chapter 5 Meet the Cass

along with brief details of their attributes, and origins. I've put them in a very subjective order of fiercesomeness - so, if you meet a Balrog, you would, usually, treat it with rather more respect than, say, an Orc.

Monsters!

Dwarvac

Appear in the original mainframe classic, hurling knives and axes at the player - nuisance value only.

Orcs

The Jack-of-all-trades monster - appears in most Tolkienesque adventures. Extremely vicious and ugly creatures, in groups, and usually wielding spears or scimitars. There is an Orcish Archer in one of Level 9's games.

Waug

This appears in The Hobbit. Originally an extremely dangerous creature, who often accompanied Orcs on their raiding trips, the Waug doesn't seem to be active in The Hobbit. Its mission in that game appears to be lying around dead.

Snake

Most programs featuring a snake do so to create a problem rather than to actively cause a player harm - see the first chapter.

Rinds

Often to be found at the top of mountains sitting on Golden Eggs. Find a way to frighten them off before attempting to purloin the treasure!

Dragon

Very frightening and powerful - do not approach unless very strong. or very sure of how to cope with it. In The Hobbit, you may need help.

Flomentale

Come in four types: Air, Fire, Earth and Water. You will need magic of a sort relating to the Elemental before attempting to fight.

Vamnires

No need to tell you how to fight these! Before coming across them you should have picked up any requisites at other locations (don't turn your nose up at that earlic!)

Mind Vampires Dogs

A special sort - they are not after your blood!

Very lowly monsters, but often attack in packs. Only the most rudimentary of weapons needed to fight them.

Wolves

Even more vicious than Dogs.

Chosts You won't need a sword or spear to battle these!

Werewolf

Only magical weapons will be of any use against these.

Goblin

Small, ugly creatures. Delight in prodding their victims in the knees with sharp sticks.

Hobzoblin

Larger, more dangerous and more cunning than their more animal-like halfbrothers.

Harpy Winged creature of amazing strength and agility.

Siren

A sea-faring harpy - usually found basking on rocks near the sea, singing. Book music was never like this

Troll Devious, greedy, oafish creatures. You'll meet two very typical examples in The Hobbit. They don't like the sun!

Rarrow Wight

masters.

Ghostly apparitions which populate the Middle Earth wilderness.

Centaur Half horse-half man, often armed with bow-and-arrow, of which they are

Fire Imp

Little, agile flames of nuisance value

Fire Giant

Large dangerous flame.

Thunder Lizard

One of the most potent of monsters. Only tackle it if you are well-armed with conventional weapons, and have a fair amount of dexterity.

Sand Worm/Purple Worm

Extremely dangerous! The sand worm is basically a mouth with a 60-foot stomach behind it. The purple worm is similar but with eyes, and not confined to the sand.

Minotaur

The well-known bull-like creature. As dangerous as you would expect a highly-intelligent bull on the rampage to be.

Wyvern

Another winged beast, this one comes equipped with vicious fangs and claws.

Balrog

One of the most dangerous of all monsters, and often met in adventures, as typifying the whole Tolkienesque. D&D world of fantasy.

Water Imn More nuisance

Kraken Water dragon

Lich

You'll have occasion to meet one of these later, so be warned - they are extremely powerful. They are former wizards who have died and brought themselves back to life to wreak havoc.

This is, of course, only a partial list of the monsters you may expect to meet. Most adventure programs will feature some of these, and more of their own. In writing your own adventure, your imagination can be the only restriction. Just about anything can be pressed into service in a game. and I have seen everything from snowmen to London double-decker buses

Chapter 5 Meet the Cost

being used as death-dealing enemies. Most programs that rely on a Dungeon & Dragon-style combat system will keep you informed of your current physical status. This may take the form of physical points, combat points, or food points. You may, indeed, be given a combination of all these, but it will be clear to you when playing, that a decision on whether or not to fight with a particular monster must be made by you, taking into account your own strength, using whatever system the program adheres to, together with your own knowl-

Of course, you may be given no forewarning of a monster's presence, and thus have to fight whether you want to or not.

This sort of program would be a very unfair one, and they're not common. Most games will give you both a certain pre-knowledge of the monster's capabilities and a method of escape should you wish to decline the challenge. You may not, though, make good your escape, if the monster is a particularly speedy one!

Spells

edge of the monster's own rating.

The sort of combat we've spoken about so far, with the system of strength or combat points is, of course, based on the physical side of combat that is, a few well-aimed chops at the monster's head with your broadsword or morningstar. Many programs, however, give you the options of employing magical powers, and casting simple spells at a monster. This idea is very well-entrenched in D&D. Tunnel and Trolls, and other RPGs, where many pages of the rulebooks are devoted to complex spells, which become ever more complex the longer you survive as a wizard.

The basic idea of a spell remains the same, however - to ZAP the monster with a well-aimed spell. This can take the form of a simple "SLEEP" spell which lays out the monster for a certain amount of time, to the "CRISPIT" spell as seen in The Valley, which annihilates the thing completely. Spells of this potency require a great degree of experience to use.

Unfortunately, the programs currently available for the machine do not, as a rule contain very good, or complex spells. In fact, The Valley is one of the most spell-conscious programs around, and that, as we've seen,

can only boast three spells. Another program which features spells, is Velnor's Lair, from Neptune.

The program concerns the black wizard. Velnor, who has gone into hiding in the Goblin labyrinth of Mount Elk. Your task, as the adventurer, is to prevent Velnor from metamorphosing into a demon on earth, which event will not be good for mankind. You must explore the labvrinth, facing his ghastly guards, and finally come face to face with Velnor himself. You start the quest armed with a torch, a tinderbox, and a club. At the start, you are asked whether you want to be:

A Warrior which will, of course, be your choice if you fancy a bit of monster-bashing. He has no spell-casting powers, but may use any magical items found in the labyrinths.

A Wizard who is a bit of an easy target, as he has very limited physical prowess. His strength lies in his spells, of which he has three:

 a) Polymorph- this costs him one spell point (he starts with ten in total), and changes any non-magical, living creature into a harmless frog. The success rate is normally 50%.

 Teleport which costs three points, and which will set you, with whatever you may be carrying, back at the entrance to the labyrinth.

c) Fireball- the most potent, but also the most costly, at five points. This spell kills any creatures, without magical protection, at the location

A Priest who is somewhere between the wizard and the warrior in ability.

Like the wizard, he has three spells to choose from, and an initial 10 spell points. The spells available to him are:

a) Shield which costs him three points, and which makes him less vulnera-

ble to attack — it can, however, only be used once.

b) Dispel undead which does just that, and also costs three points.
 c) Heal which costs four points and heals all the priest's injuries.

After all this preamble, the rest of the game follows our Wumpus model fairly closely. A maze of tunnels is explored by the player. Many problems have to be solved, and, of course, there are lots of monsters to battle with. Apart from the spell routines, which are complex and worth obtaining the program for, Vehor's Luf is a run-of-the-mill adventure, but one which

should give some pleasure to the D&D enthusiast.

The fast remains, however, that the player looking for a computer adventure for this machine, which includes very complex spells, as in Dungeons & Dragons and the rest of the role playing games, will, frankly be disappointed. It's entirely possible, though, that a magic adventure will be released the week before his book!

Weapons

At the start of the classic adventure, you are weaponless. You have to find your own armoury during the course of the game, and it will probably con-

sist of not much more than a short sword, or dagger, or axe — and these are usually thrown at you by the occasional passing dwarf.

These weapons come in handy when dealing with the dwarves, and you'll get points for killing them, but you will probably hot one get much of a chance to use them against dragons, or sirens, or other monsters. No, they are to be beaten by guille — and you'll find that the Big Bad Pirate who, every so often, rushes in to steal all your hard-won treasure and rushes out again to hide it, long before you can throw any axe you may also be carrying.

So we have to look elsewhere if we are to use a lot of lovely, blood-dripping swords!

Although the Dungeon and Dragons system, with its swords, maces and so on, is a fertile ground, well-used by game-writers, there are several adventure programs available for the machine which make use of more conventional weapons.

Richard Shepherd has written several adventures for the Sinclair machine — some of them use the term rather loosely, but two of them are fairly good examples of adventures. The text adventure is represented by Supersoy, while the graphic is represented by Transylvanian Tower.

The plot of Superspy's not entirely unadjacent to that of a James Bond movie, and combines text and graphic adventure. The first part is pure text, with several puzzles and anagrams to be solved. Once you have solved these, the graphic, areads second part of the game may be takeded. The weapons available to you at the start of the game are what we are interested in at the moment, though.

These are very different from the usual sort of weapons that are usually met in adventure programs. In Superspy, you are offered, at the start of the game, a small list of modern weapons, consisting of:

pocket bomb cyanide gun concealed knife Walther PPK pistol digital watch

My personal favourite is the Walther PPK — very reminiscent of the James Bond stories. You are allowed to choose three weapons from this list, and with these must batte the various enemies that you'll meet durings ture, relying on code-breaking and anagram-solving for its solution. Once ture, relying on code-breaking and sangaram-solving for its solution. Once the first part is should you, a maze game is begun, in which you must enter Dr Death's island and find his lair. In the maze you will come across Jaws, and, If you are levely, escape him! Transportunian Tower, another of Shepherd's adventures, is described by him as 'as chilling Ja adventure, with spectacular graphics' — a little reisonable hyperbole, as the graphics are, as in Superapy, written in BOSC. The Maxe, which is the core and whole point of the game, in of the BOSC. The Maxe, which is the core and whole point of the game, in of the base become accepted computeress after long use, and in this case means have you, enemight, you find a maze, hooking down a corridor, or, as in the present program, at three walls of a room, together with any downways that any some content. The drawing of the room, in Transportunian Tower is done in BASC, so is in little slower than machine code would accommiss the state of the program of the

The object of this adventure is to beard the Count in his Tower. As you prowl about the various levels, trying to find your way around, you'll find various treasures lying about that may (or may not!) help you in the final confrontation.

The weapons available to the player are:

a knife a dagger a sword

These are the obvious ones, but there are also magical weapons, which include:

a silver cross

a mirror

a magic ring a magic cloak

a magic croak

a clove of garlic

without which, a Dracula adventure would not be complete!

On the first level of the five to be negotiated, there are no weapons to be found, and more needed. On the succeeding flows, you will find all the objects — and also bast A certain number of these must be killed on each level in order to propries to the next. In order to achieve this, the player is granted a bax-rapping pixelo, loaded with ten bullets. The bast flutters about just it will be a subject to the subject of the player is just in a doctor in just it down, lies in a coumpled heap on the floor of the room. As a last gift before dying, each bast will give you all for plan of the present evel, with its multitude of rooms to be negotiated. However, if you are not of ammunities of rooms to be negotiated. However, if you must not do that the subject is the player in the p

the same level. And you might find this is a sealed room! There is a way to get out of this, but a certain weapon, or treasure is required.

Once the Count is met, only one of the weapons will conquer him. You are not told which. Well, you wouldn't want things too easy, would you? So the weapons you might meet in adventure games are varied in the extreme — weapons can be made of anything, and are really only limited by the writer's imagination.

Fighting monsters with deadly weapons, however, is not really the ultimate aim of the traditional adventure game — sorry Jason, Fred and Tom of 2C! The monsters are usually protecting something, and that is usually

Treasure (sometimes heavily disguised).

We've finally arrived at what is without doubt the real reason for putting up with all the frustrations of playing this wonderful game.

Earlier in this book, we looked at Colossal Adventure, from Level 9.
This adventure, based, in the first part, on the Crowther/Woods mainframe original, contains many treasures to be collected during the course of the game. Each of these is worth a certain number of points, and in the text, or text/graphic game, the score is the thing.

Take a look at this situation. You are in a long corridor, in a complex of caves. You have arrived here after collecting treasures and other objects. To find out what you are presently carrying, type INVENTORY (or usually, inst INV.). The computer replies:

YOU ARE CARRYING:

The Magic Helm The Golden Ring The Brass Shield

The Comic

The Fire Opal The Brown Gloves

YOU ARE IN A LONG CORRIDOR. TO THE WEST YOU SEE A DARK CAVERN.
WHAT NOW?

Well, we might as well go in — this can often prove dangerous, as the author will probably be testing us, and will set all sorts of traps about his complex of caves. The next message is often:

YOU HAVE SLIPPED IN THE DARK AND BROKEN YOUR SKULL, DO YOU WANT ANOTHER GAME Y/N?

But we have been warned in advance of the lack of light in the cave, and we have not been told of any light source in the corridor, so it is a reasonable assumption that there will be light of some sort in the cave itself. Having first SAVEd our position (any reasonable program will allow you to do this before any risky steps are taken, thus making it easy, if killed, to quickly resume), we decide to take the risk of looking into the cave. We type:

W(est)

and the computer answers: WHAT NOW?

VOLUME NOW IN THE DARK CAVE A FAINT LIGHT CLOWS FROM THE ENTRANCE BEHIND YOU BETTER GET SOME LIGHT OUICK.

Try this:

READ COMIC (for some light relief, geddit?)

Ingenious, but no good, I'm afraid! The computer merely repeats its mess-

ITS DARK IN HERE BETTER GET SOME LIGHT.

This is not too good! Adventure programs often let you stumble about in the dark for only a short time, or a couple of turns before deciding that you haven't the faintest idea of how to proceed and dumping you unceremoniously in the nearest ice-cold underground stream, or causing you to bang into an overhanging rock. Whatever method it chooses, the program will often draw the game to a sudden conclusion.

But what's this - something else comes up on the screen: YOU FEEL SLIMY TENTACLES WRAP AROUND YOUR

LEGS IT IS A SMALL OCTOPUS.

Now the octopus may come in handy here. So:

GET OCTOPUS

And the computer come back with:

UGH - NO THANKS - ITS ALL SLIMY

WHAT NOW? WHAT DO I DO etc.

WEAR GLOVES O. K. LAM NOW WEARING THE BROWN GLOVES. CET OCTOPUS

I HAVE THE OCTOPUS, MANY HANDS MAKE LIGHT WORK, A SOFT LIGHT EMANATES FROM AN INVISIBLE SOURCE, YOU ARE IN A SMALL CAVE, THERE IS A SMALL WOODEN BOX HERE. TO THE NORTH YOU SEE AN UNDERGROUND STREAM FLOWING THROUGH A SMALL CRACK IN THE ROCK. THROUGH THE CRACK YOU CAN HIST MAKE OUT SOMETHING GLITTERING IN THE DARK REVOND WHAT NOW?

He!He! Some more treasure! Must get it! Flushed with justifiable pride at our success at using the octopus, we attack the next problem with gusto. How are we going to get at that gold in the next cave?

N (for NORTH)

We can try the direct route, by typing: YOU CAN'T GO THAT WAY WHAT NOW?

That's a bit of a blow. The computer, darn it, doesn't seem very impressed with our previous brilliant deductions, and is already putting more problems our way! There must be a way through the crack. Maybe we are carrying too many goodies, and we can't squeeze through.

DROP ALL

O.K. WHAT NOW?

YOU CAN'T GO THAT WAY WHAT NOW?

Chapter 5 Meet the Cast

How about jumping in the stream, we might be able to swim or float through.

JUMP IN STREAM

YOU MUST BE JOKING - I CAN'T BREATHE

UNDERWATER!

Hmm, this is getting silly. Is there anything to help us in the cave? There's a little pile of treasure on the floor which we dropped a few moments ago, but none of that is useful to us now. Wait, there's a box, isn't there. How could we have foresotten that?

EXAMINE BOX

YOU SEE A SMALL WOODEN BOX. THERE IS NOTHING UNUSUAL.

Computers can be very pedantic!

OPEN BOX

O.K. THE BOX IS OPEN. INSIDE YOU SEE AN AQUALLING

Aqualung? Underground stream?

GET AQUALLING

YOU ARE CARRYING

THE AQUALUNG THE BROWN GLOVES WHICH YOU ARE WEARING

THERE IS ALSO A SMALL BOX WHICH IS OPEN

That's a lot of stuff to carry! Wait a moment, though, the box might be useful. We're told it is small but maybe it will carry everything we want to take with us, and maybe it will float!

Now we can try:

O.K. YOU HAVE THE RING

WHAT NOW?

PUT RING IN BOX O.K.

WHAT NOW?

LOOK 54 and we get the same list as before, but with a difference at the end:

AND A SMALL BOX WHICH IS OPEN. IT CONTAINS THE

It works! Now we'll have to repeat the process with the rest of the treasure. After several moments typing, another "LOOK" informs us that the box now holds all our hard-won treasure. The octopus, we keep for the moment. Now let's try:

THROW BOX

WHERE?

IN STREAM

O.K. THE BOX IS CARRIED SWIFTLY FROM VIEW INTO THE CRACK IN THE ROCKS

Now let's do the same with the octopus. The computer tells us that the octopus has also disappeared from view. Now we'll type:

JUMP IN STREAM

and the computer tells us:

YOU MUST BE JOKING — I CAN'T BREATHE UNDERWATER!

So boring! We'll have to go through every motion for the computer's benefit.

WEAR AQUALUNG

O.K. YOU ARE WEARING THE AQUALUNG. I AM SUFFOCATING, QUICK DO SOMETHING!

Whoops! Foreotten something!

TURN ON AIR VALVE

O.K. THE AIR VALVE IS NOW ON.

WHAT NOW?

JUMP IN STREAM

O.K. YOU ARE CARRIED ON THE SWIFT CURRENT OF THE

STREAM THROUGH THE CRACK IN THE ROCK, AND INTO A CAVE. THE OCTOPUS HAS GONE BEFORE. MANY HANDS HAVE MADE THE LIGHT WORK. ABOVE YOU IS THE BANK OF THE STREAM.

We breathe a sigh of relief. Now we must get up onto the bank of the stream.

U (for UP)

OK

YOU ARE IN A LARGE CAVE.

YOU SEE A SMALL BOX. IT IS OPEN AND CONTAINS MUCH TREASURE.

(but wait a moment before going to retrieve the treasure!)

YOU ALSO SEE: A DRAGON ASLEEP, HIS SCALES GLISTEN IN THE LIGHT

ALL THAT GLISTENS IS NOT GOLD! HE IS STIRRING.

routines to bypass this necessity.

What a question! Well, what do we do now?

This is an example of a typical problem to be met in a traditional adventure (I won't tell you which one, in case you are currently playing it) — a series of interlocking problems that eventually yield a result. That result may, as in our example, lead you into a deal of trouble, but of course the possibility is that you will end up with treasure.

Getting the treasure is not, however, the final story, as you have to return to a certain location to deposit the treasure and collect your points. Whilst this may seem a bit of a chore, as you will have to renegotiate all the perils on your return, there are, in most good adventures, certain

Crowther and Woods wrote a certain magic word on a cave wall in their advanture—utter this at the right time (that is, when you have an armful of treasure you want to get if old), and you'll find yourself, treasure included, back at your original sarting point. You may then objust a your original sarting point. You may then objust yourself, consumer actually allow you to carry the treasure-reposit or you have the consumer you want to want to want you want to want to want you want to want you wan

Let's have a look at some typical treasures. And, as with my list of monsters, there will be a (rather loose) progression of potency.

Treasure List

Helm The boring iron sort of helmet

Silver helm A bit better Golden helm Ouite nice

Quite nice This is more like it, although there is an even better one

later

— you name them and you'll find them somewhere in an adventure.

Ring Again, the boring sort.

Silver ring Not bad.

Golden ring

A bit common nowadays — every adventure seems to have one! The one found in The Hobbit is famous for

opals, diamonds of course, emeralds, topaz, lapus lazuli

having no perceivable purpose!

Invisible ring Doesn't look much (how could it?) but if it makes the wearer invisible too, then it is obviously useful.

Invisible cloak This is even better than the ring.

These last two lead us to a secondary list — of 'found' weapons. That is, weapons that the explorer will find in his travels, scattered about the caverns, rather than the sword that most adventures provide their player with at the start of the game.

Sword The standard weapon of almost all adventures, although some allow you to stumble upon Swords in your wanderings.

Torch A very basic weapon, useful for clearing an area of ants, frightening wolves and so on.

Club A bit of a brutal weapon — not very subtle.

Mace Another basic weapon.

Dagger A secretive variation of Sword.

Kris Just one example of exotica. The typical adventure author is extremely imaginative when it comes to dreaming up new weapons, and you can meet all sorts of devices you never knew existed. Who said this game

wasn't educational?

Scimitar Another bit of exotica on the face of it, but actually one of the favourite weapons of the Orcish tribe, so often met in

adventures.

Staff A piece of wood!

Stoke

Silver staff A piece of silver, which has magical connotations.

You can probably work out what this is for (if not, just wait for a yamnire).

Spectrum Adventures

Silver sword Like the Silver Staff, this is a bit more magical than its more mundane cousin!

Silver bullet Useful if you have a gun!

Fire whip

This is just one example of a weapon that can be used against an Elemental. These are creatures formed from the very elements (Earth, Fire, Air and Water)—and as such, they can only be fought with appropriate weapons.

Meanwhile, back at the treasure:

Book Generally

Generally just worth points, as an artefact, but they are understood to be repositories of ancient lore, so, on opening, may increase your Intelligence. But beware, they have been known to explode on opening!

Gold coins The standard currency in all the best adventures, but not

as valuable as

Gold which is usually found in 'Hoards', and is often the objective of the adventure.

Crystal Orb

Representative of many magical items to be found in adventuring, the Orb allows the gazer to see into the future, or another location, thus seeing his death.

Helm of This is v-e-r-y potent, and should not need explaining — actually, if you find this, you have probably won the game (not to mention the universel)

And finally, but not leastly, the ultimate treasure of any adventure to

date,

The Golden

To date, mid-1983, this £6,000 work of art has not been Sundial of PI

That concludes our very short list of the treasures you may expect to meet in the typical adventure — by no means exhaustive, it nevertheless should give a rough idea of the sort of object that will crop up time and time again.

The better authors, of course, employ a good deal of imagination in creating treasure, weapons and all the other paraphernalia in their adventures.

PART 2

The Eye of the Star Warrior

CHAPTER 6 Why a Graphic Adventure?

Now at last we're getting down to some serious programming!

The following section of the book will describe a graphic adventure, and its development. Many of the modules described can be taken and used in your own programs, and the techniques discussed, adapted as you wish.

Before starting, let's consider the question — why did we choose a graphic program? After all, the original classic adventure is text-based, as we've seen.

There are two reasons — the more important, probably, is that in this way we an are seen the maximum number of techniques. As I've staid, you may wish to adapt these to your own programs (or, indeed, add your own pays that the seen of the present programs). The second reason is simply one of the present programs. The second reason is simply advertised to the present programs. The second reason is simply and advertised the present programs. The second reason is simply and the present programs.

Having said that, though, you may wish to add to your own text adventure, and the techniques used in The Lep of the Star Warrior may be used just as easily in this situation. For instance, the section on generating the room complex will be just as valid in a text game, as will the movement routines.

First of all, however, let's have a bit of history, which might help explain what you're doing in this hellish dungeon!

CHAPTER 7 The Legend

There is a dimly remembered legend of the third continent that tells of a treasure with such power that it threatened to consume all life on earth. The Eye of the Star Warrior contained at its heart the fire of a thousand suns!

The legand dates back to only in man's civilization, before the Creat Flood. The Demon, Ager, seaped from the negative zone and took a mortal form on Earth. Dispuised as the Wazard Domite, Ager hedd the laids of the hird continent in transactal rate for ever twe million; Ager hedd the laids of the hird continent in transactal rate for ever twe million. The vision of the wizard for the hird continent met in scoret council, and the Brothenhood of the The Saw Warrier on Seriomed. They pioted to use mystic arts forbidden by the Creator. The Brothenhood cought to breath fell feit into a clay giant, and to give the sartificial man power greater than the Demon Ager. Only in the depth of space did such power cut if Combriding the propriets of the Brothenhood council to the control of the propriets of the same of the same power greater than the Demon Ager. Only in the depth of space did such power cut if Combriding the propriets greater, the Brothenhood are to thousand sum on a collision of the propriets greater, the Brothenhood are to thousand sum on a collision of the propriets greater than the propriets greater than the propriets greater than the period of the period o

Future generations protected the giant's body and nurtured the growing gent hat would eventually sit in the Sart Warrior's single eye socket. As the time grew close, many members of the Great Council questioned the plan to give the Star Warrior so much power. Aldows, last leader of the Council, gave orders for the eye socket of the Star Warrior to be lined with explosives.

When the meeting of the suns took place, the energy of their collision was channelled into the magic stone. The stone was then ceremoniously placed in the eye socket of the Star Warrior, and it gave life to the clay giant.

The Sar Warrior was terrible to behold! It strode across the counryside, burning the land and destroying everything in its path, Soon, the Sar Warrior met Agor in battle, and the Demon was incinerated. The Star Warrior placed himself on Agor's throus, and a new rigin of error spread across the third continent. Under orders from the Sar Warrior, members of the Brotherhood was hinted down and slain. Aldous was captured and brought to the Temple, there to be dismembered by Trolls, under the terrible azes of the Star Warrior.

As Aldous' right hand was severed from his arm, it rose from the floor,

and fired a lightning bolt that struck the Star Warrior in the eye. The explosives were detonated and the eye fell from its socket.

Without the power of the stone, the giant was no more than a statue, and it crashed to the ground. One of the Trolls uttered a curse and brought down his sword towards Aldous' chest. Before he died, Aldous threw a magic field of energy around the stone, to prevent it being replaced in the Star Warrior.

The stone has since fallen into the hand of evil Wizards. It is now possessed by a Lich, a dead Wiz ard with almost demonic power. He is close to breaking the shield around the stone.

The Eve of the Star Warrior must be destroyed before the powers of evil can use it once more!

CHAPTER 8

Create your own Dungeon!

Our first task, then, is to create the dungeon complex.

The complex will be spread over three levels, with a maximum of 300 cells 100 on each level. It is quite possible to have one large level only, consisting of the same 300 cells. It would get rather difficult to find your way about after a while, though, and in having different levels, we can more easily set different tasks, and varying degrees of difficulty.

Now, although we are eventually going to be moving about a system of rooms, and will then be calling them rooms, at this point in the program's

development, we will be talking also of cells, In a dungeon complex, we will naturally require a number of individual rooms, through which we can move, and which will contain monsters, and (we hope), treasure. These rooms will be inter-connected (unless you want

Dungeon set-up

your player to tunnel between rooms). 1634 REM ************* 1635 REM SET UP DUNGEON 1636 REM *************

1648 DIM C(388)

LEAVE THE COMPUTER SWITCHED ON, OR SAVE THIS LINE!

This line simply DIMensions the array C to 300. C now contains 300 locations, and can be thought of as a long length of boxes, if you like, stuck together. There are 300 of them (see Figure 1). This takes care of our maximum number of cells.

Figure 1



Now, we could leave the set-up there — we would be able to move from cell \(^1\)1, to cell \(^1\)2, and then onto \(^1\)3 and \(^1\)4 and so on, or indeed back to cell \(^1\)1 if we wished — but what a boring game. In a text adventure, we would be moving in one direction all the time — no variety! And if a terrible monster was barring our way, we would be able to progress no further, being able to find no way round him. So, we have to provide a bit of flexibility.

To do this, let's first imagine (and this will be entirely in our imagination, as the computer is still thinking of the array Ca son ehough of boxes) that we can somehow bend our 300 boxes, or cells, into three algaves of 100 cells each. If we chose to stay with this format, we would least be allowed some freedom of movement up or down from any given cell. and also left or right from a cell to an adjacent cell.

Figure 2

| Ä | Λ | / | 1 | 3 | 3 | 1 | | 1 | |
|------------|------------|------------|------------|-----|-----|-------------|-------------|-------------|--------------|
| cell #1 | cell #2 | cell #3 | cell #4 | 333 | 3 | cell #97 | cell #98 | cell #99 | cell #100 |
| 101 | 102 | 103 | 104 | 3 | N. | 197 | 198 | 199 | 200 |
| 201 | 202 | 203 | 204 | 3 | No. | 297 | 298 | 299 | 300 |

But, although this is a bit better than our first set-up, you will have noticed that we still only have two-dimensional movement. We could make our matrix, which at the moment is 3 × 100, into a matrix of, say, 30 × 10, or some such construction, which would make for a more complex set-up, but still only two-dimensional. Let's go three-dimensional. Saying with our three levels, we'll construct a box, with the dimensions 10 × 10 × 3. Our counders now looks like Februar 3.

So now we have three levels, each of 100 cells (10×10), in three dimensions, about which we may roam to our heart's content. This is the theory — but how does the computer hold this information? In fact, computers are not able to grasp concepts like three dimensions, as new humans. Array C is still, to the computer, a long line of 300 boxes, or locations, and will remain so, however we may choose to imagine it.

Figure 3

| / | 21/ 11/1 | 22/13 2/13 | 23 2 | 1-7- | >4 | 27 2 17 | 8 29 18 1 | | 1 |
|-----------|-------------|----------------|------|------|----|------------|--------------|---|-----|
| /1 | / 2 | 3 | 4 | 13 | 3 | 7 | 8 | 9 | 10 |
| cell 1 | 2 | 3 | 4 | 3 | 3 | 7 | 8 | 9 | 10 |
| 101 | | | | 3 | 3 | | 77-7- | - | 110 |
| 201 | | | | 3 | 3 | | | | 210 |

How, then, does our computer know when we are on level, or J_{ij} , or J_{ij} . Let's look against a Figure 3. You can see from this that the player, in reall life, could simply so from cell $\frac{1}{2}$, directly down to cell $\frac{1}{2}$ 0.01, and thus be on the second level. But the computer is utili, as we said, should not whole dungous complex in one long array of 300 boxes. In fata, Figure 3 we will consider the contract of t

Now we can return to the computer? We have 500 cells, or location, in, it may C, and we know that we can move firely sound all those cells (if we had leved in an ownerment module — we will later!). We have to now make that the control of the cont

Let's type in:

1650 FOR ami TO 10: LET C(a)m999 I NEXT A

This line will create a block in cells I to 10, ie the array C will now contain, in its first 10 locations, the value 999, which effectively bars the player from visiting these particular cells. Let's see what this looks like to

the computer. Figure 4



Why cells 1 to 10? Look now at our imaginary three-storey dungeon.



Aha! An impenetrable wall to the outside. Cells 1 to 10 are now no-go areas, and will never contain monsters or treasure. The next three lines do the same for the other levels.

1668 FOR 4=98 TO 118: LET C(4)=9 99: NEXT &

Line 1660 creates an impassable barrier at the last row of Level 1, and the first of the second level, while

1678 FOR 4=198 TO 218: LET C(4)= 499: NEXT a

creates the wall between the second and the third levels. Finally

1688 FOR #=298 TO 388: LET C(#)

499: NEXT # creates the last barrier at the end of the third level. Now, we need to put in

the boundaries at the "edges" of the levels 1698 FOR #=11 TO 291 STEP 18: LF (C(a)=999: NEXT a 1/80 FOR #=10 TO 300 STEP 10: LF

These two lines create blocks in steps of ten, thus creating the remaining

T DCa 3m999: NEXT a

boundaries. Look at Figure 6, a plan view of Level 1 to see what has happened. The other two levels have been treated in the same way.

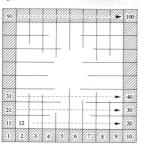
To complete the complex, we have to scatter a few walls at random throughout our dungeon, to make for a bit of variety in the game.

As the computer looks through array C, or, as we imagine it, our three levels of 100 cells each, on a 10×10 matrix, it is going to check the cells around each location, to see if any contain the value 999. As we know, this value is a marker which tells us that this particular cell, or location, is a no-go area. It may not seem important, at the moment, if we have two of these walls together, but let a cell be surrounded by walls and we have an impenetrable room - not much good in our present game! Although, you may want to write a routine to allow us, maybe to tempt a monster into such a room, and then imprison the beast. We may have, for instance, a

The computer will also check, at the same time, that there are no diagonal walls across the dungeon, thus cutting us off from the rest of the cells.

Teleport Spell in order to escape ourselves

Figure 6

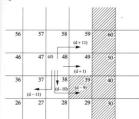


gives us a value for b, between 30 and 59. This is the range we require, of walls in each level, apart from the boundary walls.

1/28 FOR 1=1 TO b
1/28 LET 0=1NT (NND1288)+18
1/40 IF CC 0>9999 THEN 50 TO 1/3
8 (179 IF CC 0-10)999 OR CC 0+1>99
9 OK CC 0+1)9999 THEN 50 TO 173
8 (8) IF CC 0-11)9999 OR CC 0-9)99
9 THEN 50 TO 173
9 THEN 50 THEN 50 TO 173
9 THEN 50 THEN 5

This is the loop to create the walls. In line 1750 and 1760, the programs in checking all the surrounding cells to the one chosen by 1730, to make by 1730, to make mone contain the value 999 — if one does, the program returns to find another value for d, and repeat the check. Look at Figure 7 to see this in action. The illustration shows just one section of Level 1 (although it could just as easily be Level 2 or 18

Figure 7



1730 gives us a value for d of between 10 and 290. These numbers should be familiar to us now, but to recap, we have walls between 1 and 10, and between 290 and 300, so there's no point trying to put a wall at these locations. In our example, the program is checking location 48 — that is, d has received the value of 48 from line 1730.

The program asks first of all if 48 has the value 999 (line 1740). It hasn't nour example, but if if did, the program would try again with a fresh value for d. Line 1750 asks if d - 10 (48 - 10 - 38) is a wall — it sin't, so line 1750 ocs on to ask, does d + (484 + 149) hold the value 999. Again the answer is no, so line 1750 finishes by asking if d + 11 (48 + 11 - 59), holds the value 999, and once again the answer is no, Again, if the answer to one of these

1838 LET C(a)=d

questions had been yes, the program would jump back to line 1730 to get a new value for d, and try once more.

In our example, however, the program goes on to line 1760 and task if of -11 (48 +11 = 37) has the value 999, which, again, it desent. Does deed 48 -9 = 39) = 9997 Zounds! it does, and now the program jumps to line 1780, which returns us to 1730 for a new value. If, on the other hand, or "wall" had been found surrounding C(48), that location would have been siven the value 999, thus makine it an impossable to

Now that all our cells are designated either walls, or rooms, we can go on to number those rooms.

```
1790 LET 0=0
1880 FOR a=10 TO 290
1810 IF C(a)=999 THEN GO TO 184
0
1820 LET 0=0+1
```

Now that our rooms are numbered, the computer will recognise a number between 10 and 290 as a clear area, and those locations with the

value 999, as a wall, and thus impassable.

One last thing needs to be done before we can leave this phase of the program. How do we get between the various levels of the dungeon? Having gone to a lot of trouble to set up walls between the levels, we need a

way of bypassing these walls as necessary.

Stairs have been a successful answer to this problem for several centuries, so let's nut some of these in our complex.

We don't want to make it too easy for adventurers to find their way to another level, so let's put just one staircase on each level. For Level 1, we'll store the location of the staircase in variable SONE. We don't want our staircase in a wall, so we can forget locations 1-10 and 90-100.

And so on for the other two levels:

```
2390 LET STWO=INT (RND#90)+110
2400 IF CCSTWO)=999 THEN GO TO
2390
2410 LET STHREE=INT (RND#90)+210
2420 IF CCSTHREE)=999 THEN GO T
0 2410
```

This finally completes the structural set-up of our dungeon complex.

And although the routines were written with our final graphic adventure in mind, the techniques may just as well be used in your text adventure.

CHAPTER 9 All that Glisters...

On without pause to the good bit — populating our new dungeon with the enemy and the loot!

because we know the last 10 locations of array C are walls, and we want M to coincide with C. There will be a maximum of one monster to each room — monsters will not be able to roam around in this dungeon!

```
1878 FOR a=18 TO 298
1888 LET b=INT (RND#4)+1
1898 IF b<2 THEN GO TO 1918
1988 LET M(a)=INT (RND#15)+1
1918 NEXT a
```

Line 1870 also recognises that the last 10 locations are walls, but also that the 1 to 10 are also walls. Line 1900 gives a random choice of 15 monsters, while the other three lines give us a frequency of about one monster every other room.

```
1920 LET M(12)=0
```

Location number 12 in the array M is set at 0, that is, no monster will appear there. If you remember, the array M will coincide with the array C, which holds our network of rooms and walls, and line 1920 ensures that we don't start the game having to battle with a monster! (Why are we starting the game at C(127)).

```
1930 LET a=INT (RND#80)+210
1940 IF C(a)=999 THEN GO TO 1930
1950 LET M(a)=16
```

There is one Lich in our complex. He is the dead Wizard, who we will eventually have to battle in the climax to the adventure. He is a very special monster, and as such, is to be found somewhere on the third and final level. Line 1940 ensures that he doesn't end up in a wall, while line 1950 gives him a special code of 16.

Now to the treasures, which are actually mostly weapons. These can be dealt with in exactly the same kind of routine.

Array T, which now holds all the information on the treasures to be found in the complex, is also congruent with arrays M and C. Thus, as the player moves about array C, which holds the physical set-up of the dungeon, the other two arrays can be very quickly matched against C to get

information on monsters and treasures currently at that location in C.

One last array, S. remains to be DIMensioned

Arrays will bold all the information on treatures that we may drop a we went you for but over a crush the diagona. As with all our other arrays, we only need to DiMension the arrays 0200 locations — the last 100 locations forms a walf, in arrays. C. This may look, on the face of it, rather wasteful of memory pases, as, after all, we may only drop one or two treatures throughout the whole same. The routine to search though a string, every time we entered a room, just in order to check if we had stored a treasure previously, would down up the program by an unacceptable degree. Keeping all our arrays down up the program of the properties of the properties of the program of the properties of

Now we have a two-dimensional string MS, which will hold the data on

19 kinds of enemy (not always creatures — see the last three, which are very special spells you'll find used against you in the final stages). The longest name is 15 characters long.

T\$ is DIMensioned in the same way, and holds information on the various types of treasure.

```
2119 REM ***************
2120 REM READ IN TREASURES
2121 REM **************
2138 DIM T$(25,15)
2140 FOR a=1 TO 25: READ T#(a):
NEXT A
2150 DATA "SPADE", "FIRE WHIP", "S
MORD", "SILVER SHORD", "SILVER STA
FF", "SAINTLY STAFF", "TALISMAN", "
CRUSS", "SHIELD", "TORCH", "INVISIB
LE CLORK", "CLUB", "HOLY WATER", "B
ON AND ARROWS", "MAGIC SHIELD", "E
MPTY BOTTLE", "HEALING WATER", "WI
ZARDS HAND", "TELEPORT", "FORCESHI
FLD", "PSYCHIC SHIELD", "LIGHTNING
HOLT", "STONE SPELL", "LIMBO SPEL
```

". "STONE"

The information on treasures is placed in a string at this point, so that we may PRINT the information on-screen during the game.

CHAPTER 10 Graphic Violence

Now that the structure of the dungeon is set, we can turn to defining some graphics. You will find, if you take a quick look through the complete listing at the end of the book, that there are many graphics defined in the main body of the program flook at line 2596 to 3650). Beach time a monstructure appears, the graphics for that particular object will be redefined as necessarized.

There are several graphics, however, in The Eye of the Star Warrior, that remain the same throughout the game. A lot of memory is saved by defining these right at the start, before the main program is loaded.

```
10 BORDER 0: INK 0: PAPER 0: C
LS : PRINT INK 2; BRIGHT 1; FLA
SH 118T 10.0:"
              Adventure Loading:
Do Not Stop Tape.
 15 REM ** SET GRAPHICS **
 20 FOR a=0 TO 7
 30 REM .. WIZARDS HAND
 35 READ b: POKE USR "a"+a,b
 40 READ b. POKE USR "b"+a,b
 45 REM .. MAP ROOM WITHOUT
          TREASURE
 50 READ b' POKE USR "c"+a,b
 55 REM .. MAP ROOM WITH
          TREASURE.
 60 READ by POKE USP "A"+a.b.
 70 REM .. STONE WALL
 80 READ b: POKE USR "i"+a,h
85 REM .. PLAYER
 90 READ by POKE USR "J"+a.h
100 REM *STRIRS*
110 READ b: POKE USR "k"+a.h
120 REM *HEALING WELL*
130 READ b: POKE USR "1"+a,b
```

140 REM *FIRE PIT* 150 READ b: POKE USR "m"+a,b 160 NEXT a

178 DATA BIN 88001111,BIN 11111 118.BIN 11110111,BIN 11110111,BI N 11011011,BIN 80111080,BIN 8,BI N 0.BIN 11111011

160 DATA BIN 00011111,BIN 11111 110,BIN 10000001,BIN 10000001,BI N 0,BIN 00111000,BIN 00000011,BI

N 80011100,BIN 11001010 190 DATA BIN 11111111.BIN 11100 000,BIN 10000001.BIN 10010101,BI N 01100110,BIN 00010000.BIN appa

0011,8IN 00111110,8IN 00000010 200 DATA BIN 11111111,8IN 11110 000,8IN 10000001,8IN 10001001,8I N 0,8IN 11111110,8IN 00001111,8I

N 01111110,BIN 10110000 210 DATA BIN 11111111.BIN 11100 000,BIN 0,BIN 00010100,BIN*11011 011,BIN 00010000,BIN 0000111.BI

N 0111100,BIN 00110101 220 DATA BIN 11111111.BIN 11110 000.BIN 10000001.BIN 10100001.BI N 0.BIN 00101000.BIN 0011111.BI N 00111000.BIN 10000000 230 DATA BIN 11111111.BIN 1100

000,BIN 10000001,BIN 11000001,BI N 81100110,BIN 01000100,BIN 0011 1111,BIN 00011000,BIN 01101101 240 DATA BIN 0011111,BIN 11110 000,BIN 11110111,BIN 11110111,BI

N 8,BIN 1888818,BIN 11111111,BI N 8,BIN 81181188 268 LORD "Pro9"

270 SAVE "adventure" LINE 10

Note that some of the BIN numbers contain a single 0. The computer recognises this as eight 0st We have used BINary statements throughout the graphic-defining procedures, in preference to decimal numbers, which, of course, are just as valid. The BIN numbers may be a little longer, but, in

our opinion, are less prone to typing errors, and are easier to read. They also, if you use a little imagination, approximate the shape of the final

graphic.

You will also see that the letters in quotes are in lower case. These letters — a,b,c,d,d,k,l and m — are to be typed in having first gone to RAPHIC mode on the computer (press CAPS SHIFT and the 9 key together). In this mode, the machine automatically goes into upper case. Throughout the litting, we've key to twoing lates letters, that than the graphic symbol you'll new when the program is conving lates letters, that then the graphic symbol you'll new when the program is confi, fine A are cell triffered to the program is confident to the confidence of the convince of the confidence of the

entered using the GRAPHIC mode. RUN the little graphics program, and you'll find that keys now print nice oraphics.

Let's start using those graphics.

We'll get the status display box on to our screens first.

2490 FOR a=0 TO 12: PRINT PAPER 0; INK 1;AT a,0;" ", NEXT a

This line prints a nice background to our Status Box.

2500 PRINT "_____

The line between quotes is achieved by SHIFTed "0".

2510 PRINT PAPER 1) INK 5;AT 0:1 9;"ADVENTURE" 2520 PRINT PAPER 1) INK 7;AT 4:1 9;"STRENGTH " 2530 PRINT PAPER 1) INK 7;AT 6:2 2;"FLOOR " 2540 PRINT PAPER 1) INK 7;AT 8:1

4; STATUS MODE " 2550 PRINT PAPER 1; INK 7;AT 10.

14) "COMBAT RATING " 2560 PRINT PAPER 1; INK 7;AT 12, 21, "HOUNDS "

These lines will print a nice colourful box at the right of the screen.

Now to drawing the graphics of the room. As we enter each room we are going to get the computer to paint a picture of the room, complete with monsters, treasures, and your little man.

The best way for us to do this is to DIMension a string, which can hold in its two dimensions a replica of each room, and which will PRINT out the information on the room as we enter.

2580 LET X8(1,1 TO 12)="

2590 LET X\$(2,1 TO 12)=" iiiiiii iii " 2600 FOR a=3 TO 10

2610 LET X#K a, 1 TO 12)=" i 2620 NEXT a

2630 LET X#(11,1 TO 12)=" iiiiii 1111 2640 LET X#(12,1 TO 12)="

walls, and which are rooms, into which we can move.

You will see the X\$ will print out four solid walls — not much use, as we don't want to spend the game cooped up in the first room we come to!

So the next job is to check all the locations around us to see which are

2658 IF C(LOCATION-18)<>999 THEN LET X\$<2,6 TO 7)=" " 2668 IF C(LOCATION-18)</p>
2698 IF C(LOCATION-18)
2679 IF C(LOCATION-1)
2679 IF C(LOCATION-1)
3999 THEN LET X\$

LET X8(6,2)=" "
2680 IF C(LOCATION-1)X)999 THEN
LET X8(7,2)="

2698 IF C(LOCATION+1)X)999 THEN LET X#(6,11)=" "

2700 IF C(LOCATION+1)<>999 THEN LET X\$(7,11)=" "

These lines look at the locations all round our present location. When the program finds a room, rather than a wall, it overprints the wall graphic currently on-screen with two spaces, thus giving a graphic representation of our exit point.

Finally, we can PRINT X\$. Type

3630 FOR a=1 TO 12 3640 PRINT TAB 1;X#(a,1 TO 12)

Before we get to printing our little man, we must define a few variables

2470 LET FLOOR=1: LET LOCATION=1 2: LET PX=6: LET PY=6: LET STREN GTH=100: LET COMBAT=0: LET SPELL =0: LET PER=0: LET MOUNDS=0: LET SM=0: LET HELD=0: LET RET=0: LE THENDMEN: LET STONE=0

That's quite a long line, and introduces several things we haven't see before— but many of them will probably be obvious. The variables we are interested in at the moment, are PX and PY, along with FLOOR, and LOCATION. Those lists two are self-qualmont, you the cother view or arent immediately so. PX in the value of the Players X— or hor better two arent immediately so. PX in the value of the Players X— or the return of the part of th

CHAPTER 11 Make your Move

Our little man is standing there, in the middle of Room 12, waiting for his adventure to begin. How do we move him? In line 2470, we initialized several variables, two of these being PX and PY. These are the players co-ordinates in the room, PX being the horizontal position, and PY being the vertical position. Their value at the start of the game is 6, and, if you look at Figure 8, you'll see that these values place us bang in the middle of the playing area.

Figure 8



To move to the left, we decrement the value of PX by one for each square, and to the right, we increment PX by one for each square. North and south movement is similar, but in these cases we increment and decrement by 12. At each stage, however, the values of BOTH PX and PY have to be stated. Thus the statement LET (PY +12.PX will move us south by one square (ie the vertical axis is changed by 12, while the horizontal axis remains as it was).

Type:

4480 LET TX=PX: LET TY=PY
4450 IF S#="5" THEN LET TX=TX-1

4450 IF S\$="5" THEN LET TX=TX-1 4460 IF S\$="6" THEN LET TY=TY+1 4470 IF S\$="7" THEN LET TY=TY-1 4480 IF S\$="8" THEN LET TX=TX+1

We know that a wall is impenetrable—if we now attempted to move our man onto, or through a wall, the values of P/N and PY would be lout for-ever. So our new variable TX and TY act as a suicide squad—if they are brought up short by a wall, PX and PY, which in the meantime have retained their position, are till held in XS. If a wall is not met, then PX and PY are updated to the position held by TX and TY, which then go on, if

sends us back to the Movement module at 4040 which we'll be typing in soon. If we find a break in the wall the next lines send us to the New Room

And then lines 4660 and 4665 finally PRINT our player symbol and reset

```
4660 PRINT RT TY,TX;";"
4665 LET PY#TY: LET PX#TX
4670 IF X#KPY,PXXX"!" THEN GO T
```

The discussion on movement is all very well in theory, but at the moment we can't actually talk to the computer to tell it what we want it to do. So let's now type in our Communication module:

```
4030 N FT 4=0
4848 DIM B$(32)
4050 LET RET=0
4060 LET COMBRT=0
4970 LET k=0
4080 LET SS=INKEYS
4090 IF CODE S#=12 OR CODE S#=48
 THEN GO TO 4230
4100 IF CODE SE=13 THEN GO TO 4
270
4110 LET 4=4+1
4128 IF a>=60/FLOOR THEN GO TO
4930
4138 IF Se"" THEN GO TO 4888
4140 IF S$="5" OR S$="6" OR S$="
7" OR S$#"8" THEN GO TO 4400
4158 IF k >= 31 THEN GO TO 4888
4160 | FT kek+1
4170 LET B$(k)=S$: LET B$(k+1)="
4180 PRINT AT 21,0;80: BEEP 0.1,
4199 | ET a=a+1
4288 IF #>=68/FLOOR THEN GO TO
4930
4210 IF INKEY#<>" THEN GO TO 4
190
4220 GO TO 4080
4238 IF K(1 THEN GO TO 4888
4240 LET B$(k)=">": LET B$(k+1)=
4250 LET k=k-1
4268 CO TO 4188
4278 GO SUB 68
4288 IF B$( TO 4)="TAKE" THEN G
0 TO 5128
4298 IF B$(1)="I" THEN GO TO 54
4388 IF RM TO 4 >= "DROP" THEN G
n to 5598
4310 IF BOK TO 4 >= "WAIT" THEN G
D TO 6070
4320 IF B#K TO 4 >= "LOOK" THEN G
0 TO 4850
```

```
4339 IF BIK TO 3>**DIG* THEN CO
TO 6236
4349 IF BIK TO 3>**DIGNIK* THEN
TO 6336
500 IF SIGNIK* THEN
TO 300 IF SIGNIK*
4>**DOM** THEN CO TO 6146
100 FIGUR
10
```

BS will hold our commands, and is DiMensioned to 32, because as you know, that is the width of the computer's screen. Typing in 33 sharasters would cause a "scroll?" message to appear. SS we have encountered in our Movement module, and indeed, we now see, in line 4140, a command sending us to the Movement module when we press a cursor key. Line 4090 allow us to delete a charaster in one of two ways. CODE 12 the code for DELETE, thus allowing us to use the CAPS SHIFT key together with the ODE.

The variable "2" is a marke in 18, at the position of our current input, and (k + 1) will place a curror arrow in the next position, prompting another input. The delete routine in lines 4009 ends to select a southern position, prompting another input. The delete routine in lines 4009 ends was dends "3" back to the previous position. Line 4180 PRINTs the BS as it is entered, back to the previous position. Line 4180 PRINTs the BS as it is entered, which he accompaniement of a little Bleery. Although this will stow the proyet the production of the previous previous production of the previous production of the previous production of the previous previous previous production of the previous previous

payer to pick up frequent and run.

On the pick up frequent and run.

On t

you. It will move even faster if you are inputting a text command — we don't want to make this game too easy for you.

There's one last line to be explained here. In line 4100, CODE 13 is the code for <ENTER>. Whenever your command (held now in B5) is ENTERed, the little routine at line 50 clears the bottom eight lines of the screen. B5. or your command along with them.

118 RETURN

movement.

Line 60 sends us to the routine at 530, which will print our status on the status table, and which we will type in soon.

For the moment, however, let's look again at our variables in line 2470. SM, initially set at 0, is a counter for our strength, and is related to our

This is one "recof", the "hurry up and do something" part of the game. The player may whit to wander around the complex, admining the view and keeping out of the way of monsters, but in our game, we want to keep min on the more. The way to do this is to decrement his strength as the complex of the player to find a monster and start banking. We could, we felt really mean, reduce strength by 1 at each more — but let's be generous, and allow eight moves before the player to from its 2-th, that solving the player to go from side to side before longer mounts it 2-th, thus allowing the player to go from side to side before longer than the counts it 2-th the solving the player to go from side to side before longer than the counts it 2-th the side of the player to go from side to side before longer than the counts it 2-th the side of the player to go from side to side before longer than the counts it 2-th the side of the sid

SM is incremented by 1 each time a movement command is given, in line

4500 4500 LET SM=SM+1 4510 IF SM<=8 THEN GO TO 4550

As long as SM is less than 8, we jump on to 4550. But if SM should be equal to, or greater than 8, the variable STRENGTH, initially set to 100, is weakened by 1, plus the value of the variable WOUNDS. The program then goes back to the routine at 530, to update the status box display.

Now we can type in the routine, which starts at 530, and finishes at 750

T PAPER 6; INK 0; BRIGHT 1;AT 2;16;" MISFIT "
540 IF STRENGTH>100 AND STRENGT
H<=250 THEN PRINT PAPER 5; INK

8) BRIGHT 1:AT 2:16;" JESTER

550 IF STRENGTH:250 AND STRENGT
H<=480 THEN PRINT PAPER 4: INK

0, BRIGHT 1,8T 2,16;" HERO 560 IF STRENGTH>400 AND STRENGT

HK=500 THEN PRINT PAPER 3; INK 7; BRIGHT 1;8T 2;16; WARRIOR 570 IF STRENGTH>500 AND SPELL=0

570 IF STRENGTH>500 AND SPELL=0 THEN PRINT PAPER 7; INK 1; BR IGHT 1;AT 2;16;" SUPER HERO " 580 IF STRENGTHK=500 THEN GO T

U 610 590 IF SPELL>0 AND SPELL<=3 THE N PRINT PAPER 6; INK 0; BRIGHT 1)AT 2,16;" WIZARD " 600 IF SPELL>3 THEN PRINT PAP

ER 2; INK 1; BRIGHT 1; FLASH 1;A T 2;16; " GRAND WIZARD " 610 PRINT PAPER 7;AT 4,28;"

620 IF STRENGTH>9999 THEN LET

STRENGTH=9999 630 PRINT PAPER 7; INK 0;AT 4, 28;STRENGTH

640 PRINT PAPER 7; INK 0; AT 6; 29; FLOOR

650 IF MCLOCATION)=0 THEN PRIN T PAPER 4; INK 0; BRIGHT 1;AT 8 ,26; "GREEN"

660 IF COMBATYO THEN GO TO 680 670 IF MCLOCATIONXYO THEN PRI NT PAPER 6; INK 1; BRIGHT 1; FL RSH JART 8.25. "YELLOW"
688 IF COMPRITE THEM PRINT IN
K 2. PAPER 7. BRIGHT 1. FLASH 1.
7. SOO PRINT PAPER 7. INK 8.4T 10
5.50 PRINT PAPER 7. INK 9.4T 10
7. PRINT PAPER 7. INK 9.4T 12
7.29 HOUNDS
7.20 IF SERBHGTH-8 THEM GO TO

758 GO SUB 78

Returning from this routine, SM is reset to 0, and the process starts again.

4540 LET SM=0

740 RETURN

238 PRINT BT 13.8:"."

CHAPTER 12

Monster! Monster!

There is something missing at the moment from our program, and a pretty important something — we haven't yet provided graphics for monsters or treasures!

The first task, and I'm afraid that it's a long one, is to type out all the lines for defining these graphics. Starting at line 2970, we input the BIN numbers for the SPADE, to start with, and then on to all the other objects. We won't print all those lines here — turn to the complete listing at the back of the book, and type in lines 2996 to 3650.

You'll notice, from the REMarks before each graphic, that many of the monsters share a common top and (pardon the expression!) bottom. This not only saves memory, but also a lot of typing!

Now for another tiresome bit of typing — lines 119 to 520 contain the RESTORE routines for all the graphic data that we've just ploughed through.

At the back of the book, before the main listing, you'll find a few grids, which show you how each graphic character is built up. You may wish to alter these to suit your own idea of how the Monsters and treasure should look (although we think they're pretty good as they are!)

100K (attnougn we trains they re pretty good as they are;)
Each time we enter a new room, the program checks to see if any treasure, or a Monster is present. If the answer is yes, the graphic character, or characters, for it is READ, and PRINTED, as appropriate.

```
2740 LET a=T(LOCATION)
2750 IF a=0 OR a>=18 THEN GO TO
2790
2760 GO SUB 130
2770 FOR a=0 TO 7: READ b: POKE
USR "0"+a>b: NEXT a
```

If there is treasure here (in other words, if array T does indeed hold a treasure at this location), the local variable "a" is given the value of the treasure. Line 2760 then sends the program back to the RESTORE routine at 130, and then on to READ in the necessary graphic characters. Line 2750

forces the program on to line 2790, if the value of the treasure is 18 and above, or 0 — in both of these cases, no graphics are required.

The program then goes on to check the array S, which holds information on our "stored" treasures — that is, treasures that we may previously have dropped here. The routine is the same as for the one we have just typed in,

2790 LET a=S(LOCATION) 2600 IF a=0 THEN GO TO 2830 2810 GO SUB 130 2820 FOR a=0 TO 7: READ b: POKE

USR "P"+a,b: NEXT a

And we can do exactly the same for the monster graphics:

2840 LET a=M(LOCATION) 2850 IF a=0 THEN GO TO 3660 2860 GO SUB 280

2670 FOR 4=0 TO 7 2860 READ b: POKE USR "q"+a,b 2690 READ b: POKE USR "\"\"+a,b

2980 NEXT #

2958 NEXT #

There is one difference here — the monster graphics are defined from four character squares, so another set of lines is needed to build the extra characters?

2910 LET a=M(LOCATION): GO SUB 0

2928 FOR a=8 TO 7 2938 READ b: POKE USR "r"+a,b 2948 READ b: POKE USR "E"+a,b

And now, to place the treasure (both found and stored) in a random position in the newly-entered room:

3670 IF TOLOCATION X1 OR TOLOCAT

```
ION)>17 THEN GO TO 3710
36H8 LET WX=INT (RND#5)+4: LET W
Y=INT (RND#5)+4
SHOP LET X$(WY, WX)="0"
STAR LET WECHNICKLOCATION >>
3718 IF SCLOCATION X1 THEN GO T
0.3768
3728 LET SX#INT (RND#5)+4: LET S
VETAT ( PND#5 )+4
3730 IF SX=WX AND SY=WY THEN GO
TO 3728
3740 LET X9(SY,SX)="P"
1750 LET WSCHW(S(LOCATION))
2768 IF TOLOCATION X 28 THEN GO
TO 3888
3770 IF T(LOCATION)=0 THEN LET
BY=INT (RND#5)+4
3780 IF TCLOCATION >= 0 THEN LET
RX=INT (RND#5)+4
3798 IF XS(BY, BX XX)" " THEN GO
```

TO 3768

WX and VY are the co-ordinates of the treasure (or Weapons), and are in line 3600, or lain 4x day and V₁ to the zero more for the Healing Well and Fire Fit, which we will come to borthy. 3600 puts the co-ordinate into X₂, and Y0 go see the co-ordinates for the storest Treasure, and in line 370, these are given are nation value, with the 730 trapping any attempt to give them the same value as WX and WY, which would result in the Tenual Treasure being overpristed by the Scored Treasure. WS in Stored Treasure, with a contract the Conference of t

```
And finally, we can PRINT the treasures:

3878 PRINT INK WFC; BRIGHT 1;AT

MY.MX."0"

3888 PRINT INK WSC; BRIGHT 1;AT

SY.SX."P"
```

That sorts out the treasure — but there may also be a monster in the room, as we enter, so let's see him! 3980 PRINT INK MC; BRIGHT 1; AT MY ,MX; "qu"; AT MY+1; MX; "rt"

These two lines start the monster off in the middle of the room, and his colour (MC) will be taken from lines 2290 to 2310. To tidy everything up, we'll add three lines that send the program to three subroutines. These are at 60, which we've typed in already, and which clears the bottom of the screen of any text, at 500, and again we've typed this, and 790. We will cover this later, and it PRINTS the information on what we have found in the room as we enter it.

So now we have our little yellow man at the dungeon's entrance, and our huge, flaming magenta Balrog at centre stage. What now — do we just stand looking at each other? Well, yes — at least until we put in a routine to get the monster movine! Let's do that now!

4939 LET TYMMY LET TXMX

4935 LET 4=0

4940 IF PYCTY THEN LET TY=TY-1 4950 IF PY>TY THEN LET TY=TY+1 4960 IF PX>TX THEN LET TX=TX+1

4960 IF PXXTX THEN LET TX=TX+1 4970 IF PXXTX THEN LET TX=TX-1

4980 IF TY<3 OR TY>9 OR TX<3 OR TX>9 THEN GO TO 4080

4990 PRINT AT MY,MX;Xm(MY,MX);AT MY,MX+1;Xm(MY,MX+1) 5000 PRINT AT MY+1,MX;Xm(MY+1,MX

);AT MY+1;MX+1;X#(MY+1;MX+1) 5010 PRINT INK WFC;AT WY;WX;X#c

WY,WX)
5020 PRINT INK WSC;AT SY,SX;X*C

SY,SK) 5030 IF HW=LOCATION THEN PRINT

INK 5;AT 3,4;"1"
5848 IF FP=LOCATION THEN PRINT

INK 2: PAPER 6: BRIGHT 1: FLASH 1:AT 3:41"m" 5050 IF T(LOCATION)=0 AND WHAND= 1 THEN PRINT INK 4: BRIGHT 1:A

1 THEN PRINT INK 4; BR T BY,BX-2;"<u>ab</u>" 5060 PRINT BT PY,PX;";"

5070 PRINT INK P(M(LOCATION))

BRIGHT 1;AT TY,TX;"qu";AT TY+1,T

SOOO LET MY=TY: LET MX=TX 5090 IF MY=PY AND MX=PX OR MY=PY AND MX+1=PX OR MY+1=PY AND MX=P X OR MY+1=PY AND MX+1=PX THEN G 0 TO 7590

5188 GD TD 4888

In line 4910, we see the same logic at work as in the player's movement that is, TY and TX are the forward costs for MY and MX, the monter's co-ordinates. 6490 sees a difference, however. As you'll remember, PX and PY are the player's co-ordinates, and line 4940—670 of book the values of PX and PY, relative to MX, and MY, and constantly update the values of MX and MY. In this way, the monter is constantly moving towards the player's position. Line 4200, which we covered a while ago, sends the prosumant to this routine over you fortun, and, we sea when, more others with

Chapter 12 Monster! Monster!

Lines 4990 and 5000 print out X\$ after the monster has passed that location, thus restoring any locations that have been overprinted by the mon-

ster graphics, as it passed by.

If the monster is lured into a corner, line 4980 picks this up and returns us
to the Input Command module, where the whole procedure starts again.

Assuming, though, that the Monster is still on the move, line 5070
PRINTS its ranhics at the co-ordinates found by TY and TX, These varia-

bles are then replaced by the main variables, MX and MY.

Lines 5010, 5020 and 5060 repair any graphics left by the passage of the
player (PX and PY, you'll remember), by rePRINTing any treasure

graphics.

Then, the good bit, which we've all been waiting for! Line 5090 checks to see if any of the monster's character squares coincides with those of the player's (at PX and PY). If not, the program jumps back to line 4080, our

Input Command routine.

However, if any character position coincides, combat is begun, and the Combat routine is found at line 7590.

Actually, this routine is the Combat Defence routine — there is also a Combat Attack routine which we shall go into later, but for now, the mon-

ster has attacked you, and you must defend.

Before the player can attack a monster, or defend himself, he must pick up some weapons. In the next chapter, we go treasure-hunting. But don't worry, we'll be back to monster-bashing soon enough!

CHAPTER 13 Trusty Weapons

From nearly the very beginning of the game, you will come across treasure.

You'll also come across lots of monsters, and you will have to avoid them
until you've collected a good arsenal.

When the adventurer first enters a room, a list of its contents is PRIN-Teal after the initial graphics have been displayed. This list includes information on what treasure is here, a well as which monster is guarding the treasure. The player will also be told whether there are stairs, or the Fiery PI, or the Healing Well. If this is the cave containing the Wizard's Hand, then the Hand is transferred to the player's possession, where it will remain until the Like is frailly vanouithed.

```
779 REM **************
  780 REM PRINT OUT CONTENTS OF
          RUUN
  781 REM ***************
  798 LET r=T(LOCATION)
 800 IF r=0 OR r=99 THEN GO TO
 838
 818 IF r=18 THEN GO TO 988
 628 GO TO 848
 830 IF S(LOCATION)=8 THEN GO T
0 929
 848 PRINT "You have found: ";
 850 IF r=0 OR r=99 THEN GO TO
970
 860 PRINT TECH
 878 LET r=S(LOCATION)
 880 IF r=0 THEN GO TO 920
 890 IF TOLOCATION >= 0 OR TOLOCAT
ION >= 99 THEN GO TO 910
 900 PRINT "and ":
 918 PRINT TO(r)
 920 IF COMBAT=3 THEN GO TO 948
 925 IF MCLOCATION X >0 THEN PRI
NT "The room is guarded by a"
```

938 IF MILITERTION X SR THEN DOI NT MACHICLOCATION >> 949 IF XXX 3.10 he"L" THEN DOTAT "You see stairs in the corner." 958 IF X8(3,4)="1" THEN PRINT "You see a healing well " 960 IF X8(3,4)="m" THEN PRINT "You see a fire Pit." 970 RETURN 988 PRINT "You have found the o hostly hand of the Good Wigand. It is yours until you find the e ye. " 990 FOR r=1 TO 12 1888 IF HKr)=0 THEN GO TO 1828 1010 NEXT n 1828 LET H(r)=18 1838 LET MHANDET

1848 LET TOLOCATION >=99

1050 GO TO 920

5198 CO TO 4848

If the player likes what he finds, and can get past the monster to get it, he will want to TAKE the treasure, and this is where the TAKE module comes

5189 RFM XXXXXXXXXXXXXXXXXXXXXXXXX 5110 REM TAKE OR JECT 5111 REM *************** 5120 IF X#CPY,PXXX"1" THEN GO TO 5288 5130 FOR re1 TO 12 5148 IF H(r)=16 THEN CO TO 5179 5150 NEXT P 5160 PRINT "You need an empty bo ttle to collect water from t he healing well.": GO TO 4848 5178 LET H(r)=17 5180 PRINT "You have collected a bottle fullof healing water."

5200 IF X8(PY,PX)="0" OR X8(PY,P X >= "P" THEN GO TO 5230

5218 PRINT "I see nothing to Pic k 11P."

5220 GO TO 4040 5230 IF HELD(5 THEN GO TO 5260 5240 PRINT "Sorry; you cannot ca nry anymore treasures." 5250 GO TO 4040 5260 FOR re1 TO 12 5278 IF HCr >=8 THEN GO TO 5388 5288 NEXT P 5298 GO TO 5248 5300 IF XM PY. PX >= "o" THEN LET H(r)=T(LOCATION) 5318 IF XS(PY,PX)="P" THEN LET H(r)=S(LOCATION) 5329 PRINT "You have picked up." 5330 IF XM(PY.PX)="n" THEN PRIN T THE TELL DESCRIPTION SO 5340 IF XK PY, PX >= "P" THEN PRIN T TS(S(LOCATION)) 5359 LET HELD=HELD+1 5368 IF XMCPY.PX >= "o" THEN LET TO DOSTION 1499 5378 IF XM PY.PX >= P" THEN LET SCI DOSTION YOU 5399 | FT Ye/PY PY 18" " 5398 LET reINT (RND#298)+1 5480 IF C(r)=999 OR T(r)=18 THEN

GO TO 5398 5418 LET T(r)=INT (RND#15)+1 5429 GD TD 4949

Line 5120 checks to see if we are at present standing on the Healing Well. Line \$140 makes sure that we have a bottle, before we attempt to pick up any Healing Water. If H(r) = 16, the Empty Bottle, you are allowed to pick up a bottle full of water - if not line \$160 PRINTs a message and returns the program to the Input Command module, to await another command. Line 5200 ensures that the player is actually standing over treasure - if not, a message is PRINTed again, and the program returned to the Command Input module.

Line 5230 checks the number of treasures carried, which must not be more than 5

Lines 5300 to 5380 check what the treasure is that you have moved on to, and PRINTs the information, finally, putting a space in X\$ where the treasure was.

If the treasures held are up to the maximum, the player may like to drop something in order that he may pick up something more useful to him. Before doing this, why not let him see an inventory of what he is carrying? First of all, let's put the command in the Command Input module:

And then the Invent module:

5429 REM ***** 5438 REM INVENT 5431 RFM ***** 5449 GO SUB 69 5458 LET d=13: LET r=8 5468 FOR b=1 TO 12 5478 IF H(b)=8 THEN GO TO 5528 5480 LET ded+1 5490 IF d=20 THEN | FT r=17 5500 IF d=20 THEN LET d=14 5518 PRINT AT diriT\$(H(b)) 5520 NEXT b 5530 IF COMBREYS THEN GO TO 555 5549 GO TO 4848 5550 PAUSE 500 5560 IF COMBAT=1 THEN GO TO 714 5570 IF COMBAT=2 THEN GO TO 761 5575 IF COMBAT=3 THEN GO TO 889

5440 sends the program back to clear the bottom eight lines in preparation for the inventory list. Lines 5470 to 5520 PRINT a list of the treasures you currently hold, and then the program goes back to Command Input module for your next command. If you are in the middle of a combat sequence, however (checked in line 5330), line 5530 counts down from 100 to 1 and then takes the program on to the Defence or Attack module.

whichever is appropriate.

And now the player may, if he wishes drop an item of treasure.

5579 RFM **** 5588 REM DROP 5581 REM *** 5598 LET RET=1 5600 IF PY=2 OR PY=11 OR PX=2 OR PX=11 THEN GO TO 5620 5618 GO TO 5648 5629 PRINT "You cannot drop obje cts in the doorway." 5638 GO TO 4848 5648 LET B\$(k+1)="" SASO LET SERBOCK TO 201 5668 FOR ret TO 22 5670 IF SE=TE(r) THEN GO TO 571 5680 NEXT n 5690 PRINT "I don't understand w hat you wantee to doop." 5788 CO TO 4848 5718 IF r<18 THEN GO TO 5788 5728 IF r(>18 OR r(>25 THEN GO TO 5760 5730 PRINT "You cannot drop the" 5740 PRINT TOCH 5750 GO TO 4848 5768 PRINT "You cannot drop some thing that exists in your memor w. " 5779 GO TO 4949 5780 FOR b=1 TO 12 5798 IF H(h)mr THEN GO TO 5838 5888 NEXT b 5610 PRINT "You cannot drop some thing you do not carry." 5820 GO TO 4840 5830 LET H(b)=0 5840 IF SCLOCATION >= 0 OR TOLOCAT ION)#99 THEN GO TO 5878 5858 PRINT "Invisible Imps carry off the treasure you have Ju st dropped." 5868 GO TO 6848 5878 IF SCHOCRTION >= 8 THEN GO T

0 5898

6848 LET HELD-HELD-1

6850 GO TO 4838

Spectrum Adventures 5888 GO TO 5968 5890 LET SCLOCATION)=r 5988 GO SUB 2798 5918 LET SK#INT (PND#5)+4: LET S VETNT (PNDX5)+4 5920 IF X#(SY,SX)(>" " THEN GO TO 5910 5930 LET X#(SY, SX)= "P" | LET WSC= W(r) 5948 PRINT INK WSC: BRIGHT 1:8T SV.SX:XB(SV.SX) 5950 GO TO 6020 5960 LET T(LOCATION)=r 5978 GD SUB 2748 5980 LET WY=INT (RND#5)+4: LET W X=INT (RND#5)+4 5998 IF X\$(WY, WX)<>" " THEN GO TO 5988 6000 LET X\$(WY, WX)="o": LET WFC= 6010 PRINT INK WFC; BRIGHT 1; AT MY, MX; XMCMY, MXD 6020 PRINT AT PY.PX:"J" 6838 IF MCLOCATION X X THEN PRI NT THE PERCENCENTION SOL BRIGHT 1 AT MY.MX; "qu"; AT MY+1, MX; "rt"

Line 5600 ensures that nothing is dropped in the doorway, and lines 5640 to \$680 check the player's input with the list of treasure in T\$ to make sure that a valid input has been made. Only one treasure may be dropped in a room, and if the player attempts to drop a second, no warning is given line 5850 ensures that he is properly penalised. Most of the other lines in the module are concerned with putting the Stored Treasure at a random position in the room, putting that position in X\$ for future reference, and PRI. NTing the treasure. Other graphics in the room, such as the player and monster, both of whom will probably be moving again, are updated at the same time. We've used this method of updating before, and it saves a lot of

time, compared with going to an update module every time it was needed. Now that our player is fully equipped with appropriate weapons, he can face the monster. There are two modules that we can turn to during the Combat Phase — the first we need will be the Defence routine. Type this in now, and we'll discuss the details once you've completed this chore.

7589 REM *************** 7590 REM COMBAT DEFENCE 7591 REM ************** 7600 IF MCLOCATION >= 16 THEN GO TO 8868 7619 GO SUB 69 2620 LET COMBRET=2 7638 IF MILIOCATION >= 7 THEN GO S IR 1418 7649 PRINT "You are under attack choose yourdefence." 7650 IF INKEYS()"" THEN GO TO 7 650 2660 INPUT SE 2670 IF SER"I" OR SER"INVENT" TH EN GO TO 5449 2689 IF S##"LOOK" THEN CO TO 49 7698 GO SUB 68 7700 PRINT "Choose your defence. 2718 IF LEN SBX32 THEN GO TO 77 30 7728 PRINT INK 5: BRIGHT 1:S& 7730 GO SUB 1070 2749 IE n'S THEN CO TO 2779 7750 GO SUB 1470 7768 GO TO 7648 7779 GO SUB 1159 2789 IF TRE=1 THEN GO TO 7829 7799 PRINT "You cant use that." 7800 IF COMBAT=3 THEN GO TO 803 7818 GO TO 7988 7820 IF SB="TELEPORT" THEN GO T 0.6729 7838 LET WERPONER 7848 LET STRENGTHESTRENGTH-(1+WO UNDS) 7850 IF r>18 THEN LET STRENGTH= STRENGTH-49

7869 GO SUB 1329

2878 IF POR THEN GO TO 7928

7888 PRINT "Your defence did not

```
Spectrum Advantum

Frotect 190"
7898 GD SUB 1528
7998 IF CURRENTS THEN GO TO 883
8
7918 GO TO 7998
67928 PRINT "YOU defended well,"
7938 GD SUB 1528
7948 FOR red 10 59 NEXT r
7948 FOR red 10 50 NEXT r
7958 IF CURRENTS THEN GO TO 812
```

7960 GO TO 7140

Lina 7000 me has to the Lick Highting module; If the intersection in the repeat come. If the in duct there' voll on one of his mixways, we go not on 7610 which returns us to the displays-learing sequence. 7620 which returns us to the displays-learing sequence. 7620 which returns us to the displays-learing sequence. 7620 which which 7620 decks for the presence of the Mind Vampire, who rates a special subroutine of his own, at 1410. Once asked to choose a weapon to defend, your answer is placed in SX, which is then compared, in lines 7670 and 7860. These two lines check to see if you have asked for an inventory of weapons currently held, or a meaky look at what is in the room. We give this opics to the player, because in the passio of the statute, is a few ill probably have completely (reported what he is holding, attack), at least ill probably have completely (reported what he is holding,

The inventory module we have covered in the section on dropping weap-

4985 IF COMBRT=1 THEN GO TO 7148

4910 IF COMBRT=2 THEN GO TO 7610

The Look module is a fairly simple one — merely updating the Contents display according to what is in the room you are currently in. We will be typing this routine in shortly.

In the meantime, the player is still in the Defence mode, and after visiting the Inventory module, or the Look module, is returned to line 7700. Line 7720 PRINTS the choice on-screen as the player makes it, and then goes to the module at 1070.

1130 PETLIPH

1200 LET TRE=1

1218 RETURN

This model takes the length of the input the player has made in the choosing his weapon, and compares it to the treasure held in Ts. If the check is valid, that is, if the input is indeed the name of a treasure, then "I have been a considerable to the considerable t

TRE is set to 0 to begin with, and then line 1160 sets up a loop of twelve passes (12 being the maximum number of treasures that the player can carry, at any time). If the weapon is, indeed, presently in the player's possession, we on to line 1200, which resets TRE to the value 1.

4915 GO TO 8898

STRENGTH is decremented by a certain amount whenever a treasure,

or weapon is used, and by a lot more when a spell is used (line 7850).

If the adventurer has chosen unwisely, line 7800 sends him to be killed at

8030, and on to the Restart module at 6850.

7860 is really the core of this module. Each monster has a Combat rating, as we've seen, and only certain weapons may be used against it. The little module at 1320 checks the effect of the weapon that the player has chosen, to defend himself against the monster:

1309 REM *************

1338 FOR a=1 TO 18 STEP 2 1340 LET S==B*(a TO a+1) 1350 IF S=" " THEN GO TO 1380 1360 IF VBI Samer THEN RETIRN

1360 IF VAL SOOT THEN RETURN 1370 NEXT &

1380 LET r=0 1390 RETURN

When the program returns to the Defence module, it will have a value for ""— if it is more than 0, that is, if the player's choice of weapon is found to be effective against this particular monster, then we go not the message at line 7920. If, however, the weapon was unwisely choisen, we go to the Damage Weapon module. Even if the player defended well, there is a dance of the weapon hein damaged. but at least it will have done its ich.

```
1509 REM ***************
```

1520 IF WERPON=13 OR WERPON=17 T HEN GO TO 1570 1525 IF WERPON>16 THEN DETURN

1530 LET r=INT (RND*90)+1 1540 IF r+(WOUNDS*10)+(COMBAT*10

X90 THEN RETURN 1550 PRINT "You have damaged the

1560 PRINT T#(WEAPON) 1565 PRINE 100 1570 FOR a=1 TO 12 1580 IF H(a)=WEAPON THEN GO TO 1680 1590 NEXT a

1600 IF MERPON=13 OR MERPON=17 T HEN GO TO 1625 1605 LET HK A >=0 1610 LET HELD=11 1620 RETURN 1625 LET HK A >=16 1630 RETURN

This is the Damage to Weapon module. The first line, 1520, checks the present value of WEAPON. The value of finding any other value for WEAPON, the program then give "iv" a random value between 1 and 90. This module is used in both Defence and Attack modes, and you can see from line 1540, that If the player is currently defending, with no wounds, that he will be unlucky to suffer damage to his defending weapon, and will usually be returned, wasnon intact, to the Combat mode.

Chapter 13 Trusty Weapons

If, however, he is wounded, and particularly when in the Attack mode, the player stands a good chance of breaking his weapon. Line 1540 will send the program on to PRINT the information, and then to decrement HELD, the variable for the number of weapons currently held by the

player.

Back to the Combat Defence module we go, where line 7940 causes the program to pause for a while, as "t" counts from 1 to 50. Then line 7950 checks the value of COMBAT — if the value is 3, this meant that you are defending against the Lich. If the player has chosen the wrong weapon or seell be is unfortunately dear.

Otherwise, we are returned to the Attack module, to allow the player his turn to bash the monster.

First of all, the bottom eight lines of the screen are cleared, as usual, and the information that the player is now in Attack mode flashed on the Status box (by the Display routine at 530).

```
7140 LET COMBAT=1:GO SUB 50
7140 PRINT "Choose a weapon and attack."
7160 IF INKEY$<>" THEN GO TO 7
160
7170 INPUT 58
1160 IF 58="W" OR 58="5" OR 58="
10 OR 58="E" THEN GO TO 4400
7190 IF 58="I" OR 58="INVENT" TH
```

7220 PRINT 1NK 5; BRIGHT 1;S\$
7230 GO SUB 1070
In the Attack mode, the player has the choice of moving away from the

monster, and 7180 checks \$5's over if this option has been taken. If it has, we are seen that to the Move Player module at 4410;
4420 IF \$8=0'S' THEN LET \$8=0'S' +450 IF \$8=0'S' THEN LET \$8=0'S' THEN LET \$4=0'S' T

The player may also "LOOK" if he wishes.

The next lines are very similar to lines 7710—7790 in the Combat Defence

module, in checking the validity of the player's input of attack weapon.
7218 IF LEN 89>32THEN GO TO 7238
7228 PRINT 1NS 5 BEIGHT 1/58
7280 GO 388 1879
7284 IF 7-98 1879
7284 IF 7-98 1879
7284 IF 7-98 1879
7297 GO 381 1158

44HR IF S#="8" THEN LET TX=TX+1

7280 IF TRE=1 THEN GO TO 7310 7290 PRINT "You don't have that

weapon." 7308 GD TD 7618

If the player has mis-typed (a very costly mistake in this game!), or asked for a weapon that he doesn't possess (ditto!), the Attack Phase finishes. Having made the right choice, however, the Attack Phase continues with:

7310 IF S#="TELEPORT" THEN GO T U 6720 7320 IFI STRENGTH=STRENGTH-CHOUN

DS+1)
7330 IF r>18 THEN LET STRENGTH=
STRENGTH-49

7340 LET WERPON

7350 GO SUB 1230 7360 IF r>0 THEN GO TO 7410 7370 PRINT "Your weapon is usele

ss against"
7380 PRINT "the "; MMK M(LOCATION)
); "."

7390 GO SUB 1520 7400 GO TO 7610

which are all similar in effect to lines 7820 — 7890 in the Combat Defence module, with the exception of line 7350, which goes to the Attack Weapons

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Effect, rather than the Defence Weapons Effect.

Now, line 7360 causes the program to jump to 7410, which gives a random result of the attack, and compares it to PER, the monster's per-

centage chance of vanquishing the player.
7410 IF INT (RND#100)+1(PERTHEN GU TO 7470

If the value of PER is sufficiently high, the player merely wounds the monster, and the program increments PER accordingly (because the player is a little weaker, after such sterling effort, that the monster's chances become a bit better), or, if PER is sufficiently small, tells the player that

he has killed the monster.

"
7430 PRINT MW(M(LOCRTION))
7440 LET PER=PER+10
7450 IF PER>100 THEN LET PER=10

7455 GO SUB 1520

and then returns to the Combat Defence routine:

or goes to 7470, if the monster at the present location is the Lich, from where it goes to the Lich's death routine at 8210.

7478 IF MCLOCATION >= 16 THEN GO

10 8218
If, however, the random number at 7410 is greater than the monster's percentage chance of beating the player, the program carries on to:

7475 PRINT "You have destroyed t

7488 PRINT MECHCLOCATION)) 7485 GO SUB 1528 /498 LET MOLOCATION >= R 7500 PRINT AT MY, MX; X (MY, MX); XS (MY . MX+1) 7510 PRINT BT MY+1.MX:X8CMY+1.MV 1: XBC MY+1 . MX+1 1 7520 PRINT RT PY, PX; "J"

The variable M(I,OCATION) - ie this room, is set for 0, and XS is rePRINTed, as is the player graphic at PY.PX.

7538 PRUSE 188

7588 GO TO 4838

both of the Combat modules.

gives a short wait, and then all the variables are reset, and the screen cleared.

7540 LET STRENGTH-STRENGTH+(100-PER) 7550 LET COMBAT=0: LET PER=0 7560 GO SUB 0050 7570 LET MY=0: LET MX=0: LET P=0

And finally, the program returns us to the Input Command module, to await the player's next command.

Having discussed the two Combat modules, which are the heart of this whole program, we must type in three routines that are very important to

The first one is the routine to read the values for the player's Attack weapons. Only certain weapons are of any use against particular monsters - for instance, a Spade can do a lot of damage to a Living Skeleton, but an Invisible Cloak won't damage him at all! Similarly, in defending himself against an attacking monster, the player has to choose the correct weapon.

The second module checks the values of the player's defence weapons, which depends on the particular monster he is defending against. The third module gives a combat rating to each monster, which is used to calculate that monster's chances of wounding or killing the player

So let's type in the first module, which is our Attack Weapon Data:

2159 REM ********************* 2160 REM READ IN ATTACK WEAPONS FOR EACH MONSTER 2161 REM ***************

2170 DIM 88(16,28) 2180 FOR a=1 TO 16: READ AB(a): NEXT a 2198 DATA "010304050607122224"," W20710222324", "06071324", "020710 2324", "06071324", "02040506101322 2324", "828485861813222324", "8687 24", "8384222324", "82848687182223 24", "939414222324", "919596971213 222324", "82838414222324", "828384

18222324", "83848714222324", "2324

AS is DIMensioned to 16,20. This allows for data on 16 monsters, the maximum amount of data being 20 characters long. Notice that most of the 0s are leading zeros - that is, the program will only accept two-digit num-

The Defence Weapon Data module is similar:

2199 RFM ************** 2200 REM READ IN DEFENCE WERPONS AGRINST FACH MONSTER

2281 REM ************** 2210 DIM DS(19,18) 2228 FOR ami TO 19: READ DW(a): NEXT A 2238 DATA "89111519", "8289181115 19", "0708151920", "02070910111519 ", "871319", "020708091011131519", M20708091011131519", "0708151920 ", "09111519", "0207091011131519", 020910111519", "091113151920", "0 20910111519", "020910111519", "070

91519", "192021", "1520", "21", "21"

And finally, the Combat Rating module assigns values to array V, so that each monster has a unique rating to start combat - that value will always be the same, at least to start with. This is the reason for these values being placed in an array, rather than a string, as with the weapon lists, from which different information will have to be taken at different times.

2239 REM ************** 2240 REM COMBRT RRTINGS 2241 REM *************** 2250 DIM V(16)

```
2260 FOR a=1 TO 16: READ V(a): N

EXT a

2270 DATA 70.70.20,40,70,50,50,5

0.20.50,20.50,60,20.30.20
```

Having snoken of normal monsters, there are a couple which are out of

the ordinary, and both have their own module.

The first of these is the Mind Vampire. His unfortunate effect is to drain your mind of any spells that you may have found — very nasty, particularly as you cannot fight the Lich without a spell!

```
1418 CO SUB 68
1428 FOR P=1 TO 12
1439 IF KM-D)18 THEN LET HK-D=0
1449 NEXT = 1449 NEXT =
```

1480 FOR a=1 TO 25: BEEP 0.1,10: BEEP 0.1,30: BEEP 0.1,20: NEXT

4 1490 GO SUB 60 1500 RETURN

After clearing the screen, the module cycles through array H, which is the treasure held by the player. When and if the program finds any treasure with a value greater than 18 (that is, a spell), it replaces it with the value 0.

with a value greater than 18 (that is, a speil), it replaces it with the value 0, and then tells the player what has happened.

This, of course, is very tame, when compared to what the Lich will do to

the player!

If the player stumbles across the Lich in his wanderings, the program jumps to the module at 8060

```
9050 LET LICH=INT (RND*200)+500
8070 LET COMBAT=3
8080 LET SP=INT (RND*3)+17
8090 GO SUB 60
8180 PRINT "The Lich attacks, Protect wour self from a "JMM(sp)
```

8105 LET M(LOCATION)=sP 8110 GO TO 7650

```
8120 LET LICH=LICH-58
8130 IF LICH)=58 THEN GO TO 808
8
8140 LET MCLOCATION)=16
8150 LET PER=20
8160 PRINT "The Lich has exhaust
ed its magic Powers."
```

5 79 FHUSE 208 3168 GO TO 7148 The first line sets the Lich's strength to a random, but very high, figure, while 8000 gives him one of three spells to throw at the player in the first phase of combat. Each time the player defends well, the Lich loses 50 points of strength, until, when the variable LICH is less than 50, the first

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finally gets a chance to attack.

Should the player defeat the Lich, the program goes to the module at 8210.

8210 announces the fact, and 8220, 8230 and 8240 search through array H for the Wizard's Hand, replacing it with the Stone. WHAND is now 0, and STONE is set to 1. Line 8180 sends the program back to tidy up the screen.

CHAPTER 14 "I Spell a Rat..."

How to fight the Lich? Obviously none of your ordinary weapons like the Spade, or even the Invisible Cloak are going to help the player in this situation!

Well we provided some special weapons for the confrontation, and these are spells, of one sort or another. They are not, of course, just lying about waiting to be picked up. Let's see how the player can get to them.

When seeding the dungeon complex at the start of the game, the program makes roughly 1 in every 4 treasures, a buried treasure, with a value of 0.

Because this treasure is buried, the player needs some kind of aid in finding, and recovering it. The next module will introduce this help to the program.

```
2030 REM * ADD WIZARDS HAND *
2040 LET a=INT (RND*70)+20
2050 IF C(a)=999 THEN GO TO 204
0
2050 LET T(a)=18
```

The Wizard's Hand is placed in the first level, somewhere around the middle of the floor, between locations 20 and 70.

WHAND is set, in line 2470, to 0. As we found when typing in the Contents module, WHAND is then set to 1, when and if the player finds the

Hand in his wanderings.

The Hand will stay with the player until he finally vanquishes the Lich, at the climax of the game. Whenever a foom is entered that contains buried treasure, the Hand will glow and point, in a very friendly gesture towards the location.

And how does the player get to the treasure once it has been very kindly pointed out to him? Well, one method of getting buried treasure is to dig for it, and you will probably have noticed, in the list of treasure data, a Spade — in fact, it is number one on the list. Once one of these has been found, and TAKEn, the player may use it to dig up the treasure indicated by the Wizard's Hand.

hand."

where to die

6398 CO TO 4848

6400 LET r=INT (RND#4)+1 6410 PRINT RT RY.RX-2;X\$(RY.RX-2

6480 LET HY-BY: LET HX-BX

6490 LET BY=0: LET BX=0

6500 LET RET=1 6510 GD SUB 2740

62983FOR re1TO 12

These first few lines of the Dig module ensure that the player is carrying a Spade, with which to dig, and the Wizard's Hand, which will show him

```
), MR GY. BK-1)

6480 EG SUB 60

6480 EF P2 THEN LET b=INT (RND

850+19

6440 EF r<= THEN LET b=INT (RN

DR15P+1

6450 EF B-110CRT10N+9

6470 FRINT "You have found: ", TB
```

6400 gives "r" a random value between 1 and 4, and, after PRINTing the Hand in line 6410, and clearing the screen with subroutine 60, the program moves on to line 6450 and 640. These two lines take the value of gram moves on the screen of t

reference, and BY and BX are reset to 0, the co-ordinates of the Buried Treasure now becoming the co-ordinates for the usual Found Treasure. This means that the treasure will be able to be shown on-screen, as the player hasn't picked it up as yet. 6470 informs the player of what he has found.

found.

Now we can place the graphic character for the newly-dug treasure into XS and find its colour. in WFC.

```
6528 LET X#(NY,NX)="0"
6538 LET NFC=N(T(LOCRTION))
6540 GO TO 4848
```

and the return to the Input Command module, in order to get the player's TAKE command. If he decides to TAKE, then HELD is updated, and the TAKE routine at \$120 carried out.

Should the treasure turn out to be a spell (that is, one with a value greater than 18), the player is told what spell he may now use (and he doesn't have to TAKE a spell — it is transferred direct to his memory).

```
6558 PRINT "You can now use at"
```

You'll remember that when we were setting up the dungeon, way back at the beginning of this section of the book, we gave the value 999 to any location that we wanted to designate as a wall, or no-go area.

We can use the same idea to denote a location that doesn't, at present, contain a treasure (as for instance when treasure has just been picked up). So that we don't confuse matters, let's give this condition the value 99, which is as easy to see in the listing as 999.

```
6570 LET T(LOCATION)=99
6580 LET d=INT (RND*290)+1
6590 IF T(d)=0 OR C(d)=999 THEN
CO TO 6580
```

6688 LET T(d)=8

Thus, 6570 sets the value of T(LOCATION), or the present room, to 0, which means that there is now not resure of the found variety — the player can still store a treasure there. 6560 finds a random value for "d" from 1 to 1 200 (the number of rooms in the dungon). 6590 ensures that a room already containing treasure (with the value of 0), or a wall (with the value of 0), the value of 0), or a wall (with the value of 0, the value of 0), the value of 0, the va

6688 LET HCr mb

6700 GO TO 4040

should he wish

6690 LET SPELL=SPELL+1

rush about planting treasure as the player picks up. They will plant the same kind of treasure that is picked up. And it may be in the same room that the player is currently looting, but won't be PRINTed on-screen until the room is entered once more.

```
6610 LET BY=0: LET BX=0
6620 FOR r=1 TO 12
6630 IF H(r)=b THEN GO TO 4040
6640 NEXT r
6650 FOR r=1 TO 12
6660 IF H(r)=0 THEN GO TO 6690
6670 NEXT r
```

BY and BX, being refundant now, are set to 0 at line 6610. Line 6600. Line 6600-6600 are two little floops that check the value in array H (the player's present treasure-hodding), against what the player has present treasure-hodding), against what the player has wiped clean by a mind vampire, he need only pick up one spell, of a particular sort. The lines here check to see if the player is carrying a spell of the sort he has picked up, and either restruct hint to the Input Command module, or the contract of the present the present the contract of the present the present the contract of the present the p

Like the Mind Vampire, a very special monster, there is a very special spell — and that is the Teleport Spell. As its name suggests, it can instantly whisk you away from the sence of a suttle on unspecified location within the dungeon. You'll see, from line 7310 and 7820 that the program provides for the player selecting this option in both the defence and attack modes. The module at 6720 first of all — yes, you guessed it, clears the bottom eight lines of the screen.

```
6709 REM ***********
6710 REM TELEPORT
6711 REM **********
6700 GUS 050 80
6709 PUR 041 TO 1.2
6709 PUR 101 TO 1.0
6709 PUR 10
```

6730 and 6740 check through the list of treasures currently held by the plant in array H and informs him of his mistake in trying to use a weapon that he doesn't posses, and then (at 6770), returns him to the Input Command module for another go. If the check finds a valid input, however, at 6740, we so to 6780 and on:

```
6780 LET LOCATION=INT (RND*290)+

1

6790 IF C(LOCATION)=999 THEN GO

TO 6780

6880 LET PY=3: LET PX=3:

6810 LET STRENGTH=STRENGTH-50
```

6820 GO SUB 530

6838 GO TO 2588

6780 selects a random location from one of the 290 possible (although line 6790 ensures that the player isn't deposited in a brick wall), and the co-ordinates for the player's position in the new location are set at PX,PY – 3 that is, in a corner on level 3. This could prove rather embarassing, as a monster, if one is present, will hurry towards him. 6810 decrements the player's STRENGTH by 50 (Teleport doosar's come chean). and 6200 undarset bescreen displaye.

We have now covered the main modules of the game, from set-upthrough creation of monsters and treasures, and their graphics and colours. Combat and movement have been looked at also, and now there is a bit of tidying-up to do. In the next chapter we'll look at the details to make our game even better.

graphics of the new room, and starts everything over again.

CHAPTER 15 Nice and Tidy...

Unfortunately, we haven't finished typing yet, as there are a few modules to be added to our (already very large) program.

Now we should allow our player to be able to climb and descend, using

Apples and pears....

those stairs

We have talked about the different levels of the dungeon — three in fact — and we have created stairs between them.

Now to PRINT the graphics in the appropriate place:

2710 IF SONE-LOCATION OR STWO-LO CATION OR STHREE-LOCATION THEN LET X\$(3,10)="k"

6129 REM ************** 6130 REM CLIMB STAIRS 6131 REM ************* 6140 IF X9(PY,PX)="k" THEN GO T 0 6179 6158 PRINT "You can't do that -you must find the stairway." 6169 GO TO 4848 6170 IF BOK TO 2)="UP" AND LOCAT ION=STHREE THEN GO TO 6260 6188 IF BOK TO 4 >= "DOWN" AND LOC ATION-SONE THEN GO TO 6260 6198 IF BS(TO 2)="UP" AND LOCAT ION-STWO THEN LET LOCATION-STHR 6288 IF B\$(TO 2 >= "UP" AND LOCAT ION-SONE THEN LET LOCATION-STWO

6210 IF B#C TO 4)="DOWN" AND LOC BTION=STWO THEN LET LOCATION=SO 6270 GO TO 4840

```
6220 IF BMK TO 4)**DOWN* PND LOC
RTION-STREE THEN LET LOCATION*
STWO 0 20**UP* THEN LET
FLUOR=*LOOR*1
6240 IF BMK TO 4)**DOWN* THEN L
ET FLOOR**LOOR*1
6250 GO TO 2590
6260 PRINT "YOU can't 90 that wa
```

The first line of the module, 6140, checks that there are indeed stairs to be climbed at the present location. If not, the player is returned to the Input Command module, to give another command. If there is a staircase, then the player's directions are analysed in the following lines. Silly inputs, such as "DOMN" at Level 1 are trapped, and the resulting location of the at "DOMN" at Level 1 are trapped, and the resulting location of the PLO Command of the Command of

Have a drink on me....

Having placed the dread Lich on the top, and most dangerous level, we could put a little spice into the program by adding something different from all the other treasures, one one ach of the other levels. If you plan to write your own adventures, this is a good technique to keep the player's interest.

```
2438)LET HW=INT (RND#98)+1
2448 IF C(HW)=999 THEN GO TO 24
```

These two lines place the Healing Well somewhere within the first level, along the way ensuring that the Healing Well doesn't end up in the wall

```
≥720 IF HN=LOCATIONTHEN LET X#K3
```

Places HW, the variable for the Healing Well, in X\$, ready to be PRINTed as necessary by line 3890:

```
3890 IF HW=LOCATION THEN PRINT
INK 5:8T 3:4:"1"
```

The player can use the Healing Well in one of two ways — by moving on to it, he may first of all find his wounds automatically healed.

```
4678 IF X8(PY,PX)X)"1" THEN GO
TO 4685
```

4688 GD SHR 538

And the program returns to 530, in order to update the screen display. Otherwise the player may, after finding a Bottle, fill it from the Well, and carry it to the upper levels — only one drink is allowed, however, though the player may return for more water at any time.

```
"You're getting warmer . . . "
```

On the second Level, we can place the Fire Pit. This is where the player will bring the Stone (The Eye of the Star Warrior), once he has finally managed to defeat the Lich. This is set up and PRINTed in exactly the same way as the Healing Well.

```
2450 LET FP*INT (RND*90)+180
2460 IF C(FP)=999 THEN GO TO 24
```

2450 sets it in the second level, with 2460 checking that it will not be

The Player gains the Stone as soon as he kills the Lich, and we have typed in the Lich's death module already — the transfer of the Stone occurs at line \$250, which sets the value of variable STONE from 0 to 1. The same line changes the value of WHAND from 1 to 0, thus effecting the changeover. Now the player has to negotiate his way through the third level again, back to the second level, where the Fire Pi's is situated. Moving onto the Fire Pi's notion will end the again, and the alwayer has won.

```
4685 IF STONE=1 AND X#(PY,PX)="m"
" THEN GO TO 7878
```

More room, more room...

And, while we're speaking of moving through the levels, how does the player actually move from room to room? This is accomplished at lines 4740-4810.

```
4729 REM *************
47:40 REM MOVE TO NEW ROOM
4731 REM XXXXXXXXXXXXXXXXXXXXX
4740 IF S#="5" THEN LET LOCATIO
Nel DOSTION-1
4760 IF S#="6" THEN LET LOCATIO
N=LOCATION+10
4770 IF S$="6" THEN LET PY=2
4780 IF S#="7" THEN LET LOCATIO
Nei OCRTION-18
4/98 IF SEE"7" THEN LET PY=11
4929 TE SEE"S" THEN LET LOCATIO
NEI COSTTON+1
4810 IF S$="8" THEN LET PX=2
4828 FOR r=1 TO 11: PRINT BT r.8
             ": NEXT r
4838 GO TO 2588
```

These lines should be fairly obvious to us by now. Lines 4560 and 4570 have sent us here, the program having picked up the fact that the player is standing in the doorway of the previous room. The first set of lines, 4740—4810, reading the curror keys, and updating to the required location. Line 4820 prints lines of blanks, thus clearing the previous room display, and the program returns to line 2580, where the new room's granhies are PRINTed.

Where am I?...

All this wandering about, and picking up treasure and bashing monsters is likely to disorientate the player. Even though each room is numbered on the screen display, the player is likely to forget exactly where he is, and where he has left useful treasure. So let's provide a little map for him. Type

```
in the Map module:
8699 REH XXXX
9700 REH MAP
9710 REH XXXX
9710 REH XXXX
9710 REF LOOK=2 THEN LET D=11
9720 LET CHON=2 THEN LET D=11
9730 LET CHON=3 THEN CHON=3
9730 LET CHON=3 THEN CHON=3
9730 LET END CHON=3 THEN CO TO 885
```

```
8770 IF S(a)<>0 THEN LET de4
H788 IF M(a)(>8 THEN LET e=1
8790 LET SS="c"
8800 IF S(a)>0 OR T(a)<>99 THEN
 LET SE="T"
8885 PRINT INK di BRIGHT 1: FLA
SH #JAT f.9:55
8818 IF #=LOCATION THEN PRINT &
T f. Q: "P"
8828 NEXT #
8830 IF f=21 THEN GO TO 8869
8835 LET f=f+1: LET 9=1: LET h=h
+18
8848 GO TO 8748
8850 PRINT BT f.9:"1"
8855 GO TO 8829
8860 PRINT AT 17,17, "Press ENTER
8865 IF INKEYS="" THEN GO TO 88
```

The Map takes the form of a plan view of the level that the player is currently on, with each room, and the walls, printed. The monaters are shown by flashing squares, and treasure is also shown. Thus a yellow square with the little treasure symble donotes a cave with resurve, while a flashing green square will denote a square with a monater persent. An energy cave is also shown — and, of course, altho combination, as well as the player's position. The module doesn't really used line-by-line explainments of the control of the

the variables used in the game.

During combat, the phone might ring, as it usually does at a critical moment, so we could give the player a WAIT command, which will suspend the action until he returns.

```
6059 REM ****
6060 REM WAIT
6061 REM ****
```

8870 GO SUB 60

8875 GO TO 4030

6070 GO SUB 60

SH 1:" WRITING "; INK 5; FLASH R "Press Enter to continue" 6090 IF INKEY#<>" THEN GO TO 6 949 6100 IF INKEYS="" THEN GO TO 61 6110 GO SUB 60

6128 GO TO 4848

It pays to save... In the same vein, and if the player should have to leave the game overnight. we can now type in the last major module, and that is the Save Game routine:

SARS REM TERRETERS THE STREET 8490 REM SAVE GAME ROUTINE 8491 REM ************* 8589 SAVE "adventure" LINE 8689 8518 SBVE "graphics" CODE 65368. 168 H520 SRVE "screen"SCREENS 8538 GO TO 4848 8600 LORD "9raphics"CODE 65368.1 8618 LOAD "screen"SCRFFNS 8628 BORDER R: PAPER R: TNK 6 8630 POKE 23658.8

We are sent here from the Input Command module, and the routine SAVEs, on tape, the state of the game as reached. All the screen graphics are also SAVEd, so that when the game is next LOADed, it will restart at the same point.

Line 8630 is a POKE to ensure that all input is in upper-case (or capitals). And, finally, one or two little modules that we must type in to round off the program. The first is the Victory, or End of Game, module, which the program will come to if the player has successfully completed his mission.

and hurled the Stone into the Fiery Pit: 7039 REM **************

7868 REM END OF GAME 7061 REM **************** 7070 PRINT INK 2: PAPER A: BRID

HT 1: FLASH 1: AT PY.PX: " "

7888 GO SUB 68

8648 GO TO 4848

```
7090 PRINT "The eye is destroyed
 and the
            land will remain fre
e of evil."
7100 GO TO 6850
```

The routine at 6850 is the Restart module: 6839 REM XXXXXXX 6842 REM RESTART 6841 REM ***** 6850 PRINT "Press ENTER to start new game." 6860 IF INKEYSKY" THEN GO TO 6 868 6879 IF INKEYSO"" THEN CO TO 69

And now we just start the whole game off with:

5 BURDER 8: PAPER 8: INK 6: C IS | PRINT AT 11.9;" Press FNTFR to set up dungeon. " 10 PRISE 0 15 RANDOMIZE 20 PRINT INK 2; BRIGHT 1; FLA SH 1,8T 10,0;" PLEASE WAIT, SETTI

NG UP DUNGEON 30 POKE 23658,8 40 GO TO 1640

78

6888 RIN

and two lines at the very end to SAVE this whole listing:

8989 REM *************** 8998 REM SAVE PROGRAM TO AUTO RUN 8991 RFM ****************** 9888 SRVE "Prog" I THE S 9010 STOP

Endplay

And now we've at last finished typing, you'll be pleased to read! The game, we think, is perty loog, and has been thoroughly rested or hel listing, as you can see, has been taken direct from the program listing. We could say that we have included a deliberate law, and ask you to spot if in which should cover any strange anomalies that game authors always miss, but when the strange anomalies that game authors always miss, but purply accidentall It set is show of any you'll fin, or, incared me made are you make to the game (we're already planning The Eye of the Star Warrior, Part Two!)

And improving upon the game is really the idea behind this book — although this game is great fun to play (and very addictive too), it is really only a framework around which you can build your own game. You may, for instance, be a dedicated DAD fan, and, although this game has its basis in the DAD for jot combat, a nor-graphic game could use many of the modules in this book. Thus, more detail or more monsters, may be included. Use the modules in any way you like.

IsK-ers are, I'm afraid, not going to be able to only this game as written the program as it stands absolutely crams the 48K memory However, a deal of ingenuity could be pressed into service, and The Eye of the 8Me Marior converted to the smaller memory. For instance, being content with one level would save a little memory. And leaving the Lich sequence out would save none— in this case, the pipayer task could be to kill as of the second would save a little memory. And leaving the Lich sequence out would save none— in this case, the pipayer task could be to kill as Graphics could still be used, but the second of them be introduced. On the second still be used, but the second still be used. In the second still be used, but the second still be used

If you can run The Eye of the Star Warrior as LISTed — have lots of fun!

Me haven't included every single line of the listing in the text — some line as are repeated in several modules, which saves returning to subroutines to PRINT graphics and so on, when updating displays. Thus, you will quite often find lines similar to 6000—6000 recappearing, in the complete listing. This particular little routine will rePRINT the screen graphics as they are corruncted by the passing of the monster, or the nalver's swellon.

APPENDIX A Defined graphics

Here you will find a selection of the graphics characters used in *The Eye of the Star Warrior* — feel free to alter them as you wish.

Figure 1.1 Fire Elemental

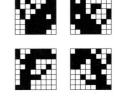
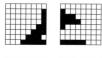


Figure 1.2 Giant Serpent



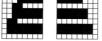


Figure 1.3 Sandman













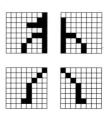
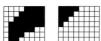


Figure 1.6 Wraith









(Left)

















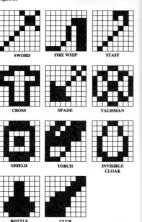


HEALING WELL



FIERY PIT

Figure 1.8



APPENDIX B Instructions

The Eve of the Star Warrior

The aim of the game is to win possession of the enchanted stone (The Eye of the Star Warrior) and to destroy it.

You can move your player around the temple with the arrow keys 5,6,7&8. Movement is in the direction of the arrows.

To win you must manipulate your environment by using the following command words.

TAKE: Allows you to pick up objects at your location.

DROP: Allows you to drop objects you have in your possession. This command must be followed by name of

object eg DROP SILVER SWORD.

I or INVENT: Lists out objects and spells in your possession.

LOOK: Lists out details of room.

LOOK: Lists out details of room.

DIG: Allows you to dig for buried treasure.

MAP: Prints out map showing the floor level you are explor-

ing.
Cave with treasure — Yellow Stored treasure — Green X.

No treasures — Cave flashes — Player —

WAIT: Halts the game until you press Enter.

Allows you to drink any healing water that you might
carry. If you don't carry healing water, the command

will allow you to drink holy water.

Allows you to climb to an upper floor.

Allows you to descend to a lower floor.

TELEPORT: When you have found the Teleport spell this command will allow you to escare danger by randomly olacing.

you someplace else in the temple.

The table; printed top right on your sreen display shows your rating (Jester, Hero etc), strength, floor, status mode, combat rating and wounds.

Amount of power you have. This value increases by killing monsters. You lose strength when wandering through the temple or during combat. This value must be kept above zero or you die of exhaustion. Shows you which of the three floors of the temple you

Strength: Floor:

are on STATUS Green when there is no monster about. Vellow when

MODE: Combat Rating:

there is a monster in the room. Red during combat. Shows your percentage chance of killing the monster if you choose the proper weapon, eg if your combat rating reads 20 then you have a 20% chance of destroying the monster. The more damage you inflict on the monster the higher the value will become. The more damage the monster inflicts on you the lower the value will become. The lower the combat rating value is

when you overcome the monster the more strength points you will gain.

WOLINDS:

Shows how many times you have been wounded. You are allowed a maximum of three wounds. The fourth wound is fatal. If you are wounded your strength will drain faster than normal, your foe will be more difficult to defeat and your weapons will be more prone to damage. You can set the wounds value back to zero by passing over a healing well or by drinking healing water from the well if you carry some with you.

Combat

If your player lands on a location occupied by a monster you will have first strike at the monster. If the monster moves onto your location then you will be asked to defend yourself. Not only will the computer accent the weapon you wish to use but it will also accept the following commands during combat: "INVENT" and "LOOK"

You can break out of the combat sequence by entering "N" to move 1 step north, "S" to move 1 step south, "W" to move 1 step west and "E" to move 1 step east. Once you are out of the combat sequence normal movement is achieved with the arrow keys. You can only break out of the combat sequence when it is your turn to attack unless you have and use a "TELEPORT" spell.

Combat with the Lich

Until he grows weak enough to allow you to attack him the Lich will throw spells at you and your only chance is to defend yourself or run by using the teleport spell. When the Lich grows weak enough you will be given your chance to attack

After defeating the Lich, the Wizard's Hand that you have been carrying, will disappear, to be replaced by The Eye of the Star Warrior. Your task now is to destroy it by hurling it into the Fiery Pit, which is situated on the second level of the Dungeon complex.

SPELLS:

You will find spells buried in the temple. Using a spell will drain you of 50 strength units.

Annendix B Instructions

Wirard's When you find the Wizard's Hand you will have a Handshostly friend who will point to the location of buried treasures or spells. The higher you climb in the temple the faster the mon-

Difficulty Level: Mind

Vamnire:

SAVE-

sters will become. Beware of Mind Vampires. They feed on your memory and you will lose the spells you have been taught.

To save a game type in SAVE and press enter. Start your recorder and press any key. The computer will now save your game. When it is finished keep your tape running and press any key again - this time to save the graphics. When this is finished keep your tape running and press any key again - this time to save the screen display. When this is finished your game will resume where you left off. To load the saved game back into the computer, use LOAD"" or LOAD "adventure"

APPENDIX C The Eye of the Star Warrior Listing

Throughout the listing, we have used REM statements to highlight the various modules. The program will not run with these left in, so crammed is the 48K! They are here purely for guidance, and must be ignored when typing in the program.

My printer will not reproduce the defined graphics used during the game, so we will adopt the convention of lower-case, underlined characters. For example, the character that will, when the program is RUN, become the staticates graphic, is to be found on the "k" key, and should be entered into the listing by pressing CAPS SHIFT (together with the 9 key (thus putting the machine into graphic mode), and then the "k" key. Simiprogram is ventually RUN, the graphic character will replace the letter in the listins.

Spectrum Adventure 18 BORDER 8: INK 8: PAPER 8: C LS : PRINT INK 2; BRIGHT 1; FLA SH 1:8T 19.0:" Adventure Loading: Do Not Stop Tape. 15 REM ** SET GRAPHICS ** 20 FOR *=0 TO 7 30 REM .. WIZARDS HAND 35 READ b: POKE USR "a"+a,b 40 REBD b: POKE USR "b"+a,b 45 REM .. MAP ROOM WITHOUT TREASURE

50 READ b: POKE USR "c"+a,b 55 PEM . MAP ROOM WITH

TREASURE 60 READ b: POKE USR "d"+a,b 70 REM .. STONE WALL

80 READ b: POKE USR "i"+a,b 85 REM .. PLRYER

90 READ b: POKE USR "J"+a, b 100 DEM #STRIPS#

110 READ b: POKE USR "k"+a, b 128 REM *HEALING WELL* 130 READ b: POKE USR "1"+a,b

148 REM *FIRE PIT* 150 READ by POKE USR "m"+a, b

168 NEXT a 178 DATA BIN 00001111, BIN 11111 118.RIN 11110111,BIN 11110111,BI N 11011011, BIN 00111000, BIN 0, BI

N 8, BIN 11811881 188 DATA BIN 00011111.BIN 11111 110.BIN 10000001.BIN 10000001.BI N 0.BIN 00111000.BIN 00000011.BI N 00011100.RTN 11001010

190 DATA BIN 11111111, BIN 11100 889, BIN 10888881, BIN 18818181, BI N 01100110, BIN 00010000, BIN 0000 8811.BIN 88111118.BIN 88888818 200 DATE BIN 11111111.BIN 11110 000, BIN 10000001, BIN 10001001, BI N 0,BIN 11111110,BIN 00001111,BI N 01111110,BIN 10110000 218 DATA BIN 11111111, BIN 11100 U80, BIN 0, BIN 00010100, BIN 11011 011,8IN 00010000,BIN 00001111,BI

N 011111100.BTN 00110101 220 DATA BIN 11111111, BIN 11110 028, BIN 10000001, BIN 10100001, BT N 6. BIN 98191999. BIN 99111111. BT

N 99111999, BIN 19999999 230 DATA BIN 11111111, BIN 11100 289 BIN 18888881 BIN 11888881 BI N 01100110, BIN 01000100, BIN 0011

1111, BIN 00011000, BIN 01101101 248 DATA BIN 00111111,BIN 11110 420 BIN 11110111.BIN 11110111.BI N 0.BIN 10000010.BIN 11111111.BI

N B. RIN BI181188 260 LOAD "Prog"

270 SAVE "adventure" LINE 10

1 REM *ADVENTURE **@ Roy Carnell -- Tony Bridge 1983** 5 BORDER 0: PAPER 0: TNK 6: C

IS : PRINT RT 11.01" Press ENTER to set uP dun9eon. " 10 PRUSE 0

15 RANDOMIZE 20 PRINT INK 2: BRIGHT 1: FLAS H 1/AT 10,0;"

G UP DUNGEON

30 POKE 23658,8 48 GO TO 1648 49 REM **************** 50 REM CLEAR BOTTOM 8 LINES

PLEASE WATT SETTIN

OF SCREEN 51 DEM ***************** 68 CO SUB 538

78 FOR d=14 TO 21 80 PRINT AT d.0."

```
90 NEXT d
 100 PRINT AT 13,0;"_"
 110 RETURN
 119 REM ****************
 120 REM Subroutine to restore
       data for weapon graphics
 121 RFM ***************
 130 IF a=1 THEN RESTORE 2968
 149 IF ##2 THEN RESTORE 2988
 150 IF and OR and THEN RESTORE
 160 IF a=5 OR a=6 THEN RESTORE
3929
170 IF a=7 THEN RESTORE 3040
 188 IF AMS THEN RESTORE 3060
 198 IF ##9 THEN RESTORE 3888
 200 IF a=10 THEN RESTORE 3100
210 IF a=11 THEN RESTORE 3120
 228 IF ##12 THEN RESTORE 3148
 230 IF a=13 OR a=16 OR a=17 THE
N RESTORE 3160
 240 IF a=14 THEN RESTORE 3188
 250 IF ##15 THEN RESTORE 3200
 268 RETURN
 269 DEM ***************
 270 REM Subroutine to restore
 data for monster top graphics
 271 REM **************
 280 IF a=1 THEN RESTORE 3320
 298 IF a=2 OR a=4 OR a=6 OR a=1
6 THEN RESTORE 3360
 200 IF ##3 THEN RESTORE 3440
 218 IF and THEN RESTORE 3268
 320 IF a=7 THEN RESTORE 3400
 330 IF #=8 THEN RESTORE 3460
 340 IF #=9 THEN RESTORE 3300
 350 IF amin THEN RESTORE 3249
 360 IF #=11 THEN RESTORE 3340
 370 IF #=12 THEN RESTORE 3220
 388 IF #=13 THEN RESTORE 3428
 398 IF 4=14 THEN RESTORE 3288
 400 IF #=15 THEN RESTORE 3390
```

```
419 REM **************
 420 REM Subroutine to restore
mata for monster bottom graphics
421 REM ***************
438 IF a=2 OR a=3 OR a=4 OR a=6
 UR a=7 OR a=11 OR a=15 OR a=16
THEN RESTORE 3600
 440 IF a=1 THEN RESTORE 3560
 450 IF a=5 THEN RESTORE 3540
 460 IF ##8 THEN RESTORE 3640
 470 IF ##9 THEN RESTORE 3628
 480 IF #=10 THEN RESTORE 3480
 498 IF a=12 THEN RESTORE 3500
 500 IF 4=13 THEN RESTORE 3500
 518 IF #=14 THEN RESTORE 3528
 528 RETURN
 524 REM XXXXXXXXXXXXXXXXXXXXXXX
 525 REM PRINT STATUS TABLE
 526 REM ***************
 530 IF STRENGTH(=100 THEN PRINT
 PAPER 6; INK 0; BRIGHT 1:AT 2:1
61" MISFIT
 540 IF STRENGTH>100 AND STRENGT
HC#250 THEN PRINT PAPER 5; INK 0
BRIGHT 1: AT 2:16:" JESTER
 550 IF STRENGTH>250 AND STRENGT
HC#400 THEN PRINT PAPER 4: INK 0
BRIGHT 1; AT 2,16;"
 SEG IF STRENGTH >400 AND STRENGT
HI - SOR THEN PRINT PRPER 3: INK 7
BRIGHT 1/8T 2/16/" WARRIOR
 570 IF STRENGTH>500 AND SPELL=0
 THEN PRINT PAPER 7; INK 1: BRIG
HT 1/8T 2.16/" SUPER HERO "
 580 IF STRENGTHK = 500 THEN GO TO
 618
 590 IF SPELLY0 AND SPELL<=3 THE
N PRINT PAPER 6; INK 0; BRIGHT 1
INT 2,16)" WIZARD
 600 IF SPELL>3 THEN PRINT PAPER
 2) INK 1) BRIGHT 1) FLASH 1/AT
```

148

410 RETURN

2,16; " GRAND WIZARD " 610 PRINT PAPER 7/8T 4,28;" 620 IF STRENGTH>9999 THEN LET S TRENGTH=9999 630 PRINT PAPER 7: INK 8:AT 4:2 RISTRENGTH 640 PRINT PAPER 7: INK 0:8T 6:2 **9JFLOOR** 650 IF MCLOCATION >= 8 THEN PRINT PAPER 4; INK 0; BRIGHT 1;AT 8,2 61" GREEN" 660 IF COMBREYS THEN GO TO 680 670 IF MCLOCATION X >0 THEN PRIN PAPER 6; INK 1; BRIGHT 1; FLAS H 1; RT 8, 26; "YELLOW" 660 IF COMBATYO THEN PRINT INK 2) PAPER 7) BRIGHT 1; FLASH 1:8T 8.26: "COMPOT" 690 PRINT PAPER 7: INK 8:8T 18. 28: " 700 IF PER>0 THEN PRINT PAPER 7 1 INK 018T 10,29; PER 710 PRINT PAPER 7; INK 0; AT 12. 29: WOUNDS 720 IF STRENGTHK#8 THEN GO TO 7 730 PRINT AT 13,0;"_" 748 RETURN 758 GO SUR 78 760 PRINT "You have died of exh austion." 778 GO TO 6858 779 REM *************** 780 REM PRINT OUT CONTENTS OF RUUM 781 REM ************** 790 LET r=T(LOCATION) 800 IF r=0 OR r=99 THEN GO TO 8 818 IF r=18 THEN GO TO 988 828 GO TO 848 838 IF SCLOCATION >= 0 THEN GO TO

950 TE red OR regg THEN GO TO 8 868 PRINT T#(r) 878 LET r=S(LOCATION) 880 IF r=0 THEN GO TO 920 898 IF T(LOCATION)=8 OR T(LOCAT TON 3#99 TYEN GO TO 918 GOO PRIN "and "J 918 PRIN TE(r) 928 IF COMBAT=3 THEN GO TO 948 925 IF MCLOCATION X >0 THEN PRIN I "The room is guarded by a" 938 IF MCLOCATION XX8 THEN PRIN T MMCMCLOCATION >> 940 IF X#(3,10)="k" THEN PRINT "You see stairs in the corner." 958 IF X#(3.4)="1" THEN PRINT " You see a healing well." 968 IF X#(3,4)="m" THEN PRINT " You see a fire Pit." 979 RETURN 988 PRINT "You have found the 9 nostly hand of the good Wizard. It is yours until you find the e ve. 990 FOR r=1 TO 12 1888 IF H(r)=8 THEN GO TO 1828 1919 NEXT P 1929 LET HCr >= 18 1838 LET WHAND=1 1848 LET T(LOCATION)=99 950 CO TO 920 1959 DEM XXXXXXXXXXXXXXXXXXX I DED DEM CHANGE TREASURE INPUT THTO NUMBERS 1961 REM ************** 1979 DIM VOCLEN SO) 1888 FOR re1 TO 25 1999 | FT VSeTS(r) 1100 IF VS-SS THEN RETURN 1110 NEXT P 1128 LET r=8 1130 RETURN

840 PRINT "You have found: ";

Spectrum Adventures 1140 REM CHECK FOR TREASURE 1150 LET TRE=0 1160 FOR het TO 12 1170 IF H(b)=r THEN GO TO 1200 1188 NEXT h 1190 RETURN 1200 LET TRE=1 1210 RETURN 1219 REM *************** 1228 REM CHECK YOUR MERDING EFFECT 1221 REM *************** 1230 LET BS=ASCM(LOCATION)) 1240 FOR a=1 TO 20 STEP 2 1250 LET S#=B#(a TO a+1) 1268 IF S#=" " THEN GO TO 1298 :278 IF VAL SEEP THEN PETIEN 1288 NEXT # 1298 | FT rm8 1300 RETURN 1309 REM *************** 1318 REM CHECK YOUR DEFENCE 1311 REM ***************** 1320 LET RE=DECMCLOCATIONS 1338 FOR ##1 TO 18 STEP 2 1340 LET S##B#(a TO a+1) 1350 IF SO=" " THEN GO TO 1388 1360 IF VAL SOM THEN RETURN 1370 NEXT & 1388 LET r=8 1390 RETURN 1399 REM ***************** 1400 REM MIND VAMPIRE 1401 REM *************** 1418 GO SUB 68 1428 FOR re1 TO 12 1438 IF HOPENIA THEN LET HOPEN 1448 NEXT P

1445 LET SPELL=0 1450 PRINT "Your mind is being d

Anneadis C. The Five of the Star Warrior Listing 1470 PRINT INK 2: BRIGHT 1: FLBS H 1;" I dont understand. 1480 FOR am1 TO 25: REEP 0.1.10: REEP 0.1.30: REEP 0.1.20: NEXT 1498 GD SUB 68 1500 RETURN 1509 REM *************** 1510 REM DAMAGE WEAPONS 1511 REM EXXXXXXXXXXXXXXXXXXXX 520 IF WERPON=13 OR WERPON=17 T HEN GO TO 1578 1525 IF WERPON>16 THEN RETURN 1538 LET r=INT (RND*98)+1 1548 IF r+(WOUNDS*10 >+(COMBRT*10 X90 THEN RETURN 1550 PRINT "You have damaged the 1568 PRINT TOCHERPON) 1565 PRUSE 188 1618 LET HELD=HELD=1

1578 FOR ##1 TO 12 1500 TE H(a) BUFAPON THEN GO TO 1 688 1590 NEXT a 1688 IF WERPON=13 OR WERPON=17 T HEN GO TO 1625 1685 LET H(a)=8

1628 RETURN

1625 | FT H(a)=16 1630 RETURN 1634 REM *************** 1635 REM SET UP DIINGFON

1636 REM ************** 1649 DIM C(389) 1650 FOR am1 TO 10: LET C(a)=999 NEXT A 1660 FOR 4=90 TO 110: LET C(4)=9 991 NEXT A

1679 FOR ##198 TO 218: LET C(4)= 999: NEXT 4 1688 FOR 4=298 TO 388: LET C(4)=

999: NEXT #

1690 FOR a=11 TO 291 STEP 10: LE T CX a)=999: NEXT a 1700 FOR a=10 TO 300 STEP 10: LE T C(a)=999: NEXT a 4718 LET b=INT (RND#30)+30 1728 FOR a=1 TO b 1738 | FT HEINT (PND\$288)+18 1740 IF C(d)=999 THEN GO TO 1730 1750 IF C(d-10)=999 OR C(d+1)=99 9 OR C(d+11)=999 THEN GO TO 1738 1760 IF C(d-11)=999 OR C(d-9)=99 9 THEN GO TO 1780 1778 LET C(d)#999 1788 NEXT # 1799 | FT cim9 1800 FOR a=10 TO 290 1818 IF C(4)=999 THEN GO TO 1848 1828 LET ded+1 1838 LET C(...) =d 1840 NEXT # 1850 REM Populate dungeon with monsters 1851 REM ***************** 1868 DIM M(298) 1878 FOR a=18 TO 298 1888 LET b=INT (RND\$4)+1 1898 IF b(2 THEN GO TO 1918 1988 | FT M(+)= THT (PND*15)+1 1910 NEXT . 1920 LET M(12)=0 1938 LET #=INT (RND#88)+218 1940 IF C(a)=999 THEN GO TO 1930 1958 LET M(4)=16 1960 REM Place treasures in dungeon 1961 DEM **************** 1970 DIM T(290) 1980 FOR a=10 TO 290 1990 LET b=INT (RND#4)+1 2000 IF box THEN OF TO 2020 2010 LET T(4)=INT (RND#15)+1

2020 NEXT & 2070 DIM S(290) De11" NEXT A

L", "STONE"

2030 REM * ADD WIZARDS HAND * 2040 LET a=INT (RND#79)+29 2050 IF C(4)=999 THEN GO TO 2040 2060 LET T(a)=18 2068 REM STORAGE SPACE 2069 REM *************** 2079 REM ************** 2000 REM READ IN MONSTERS 2081 REM **************** 2090 DIM MB(19,15) 2100 FOR a=1 TO 19: READ MS(a): 2110 DATA "Living Skeleton", "Mum my", "Demon", "Zombie", "Fire Eleme ntal", "Vampire", "Mind Vampire", " Wraith", "Dragon", "Werewolf", "Cur lops", "Sandman", "Harpie", "Giant Serpent", "Ralmog", "Lich", "Lightn ing bolt", "Stone spell", "Limbo s 2119 REM *************** 2129 REM READ IN TREASURES 2121 DEM WERTSTERFERSTERFERSTER 2139 DIM T6(25,15) 2140 FOR a=1 TO 25: RERD T#(a): 2150 DATA "SPADE", "FIRE WHIP", "S WORD", "SILVER SWORD", "SILVER STA FF", "SRINTLY STRFF", "TRLISMON", " CROSS", "SHIELD", "TORCH", "INVISIB LE CLORK", "CLUB", "HOLY WATER", "B OW AND ARROWS", "MAGIC SHIELD", "E MPTY BOTTLE", "HEALING WATER", "WI ZARDS HAND", "TELEPORT", "FORCESHI FLD", "PSYCHIC SHIFLD", "LICHTNING BOLT", "STONE SPELL", "LIMBO SPEL 2159 REM ************** 2160 REM READ IN ATTACK WEAPONS FOR FACH MONSTER

Appendix C The Eve of the Star Warrior Listing

2161 RFM ************** 2179 DIM 88(16,29) 2180 FOR 4=1 TO 16: RERD R#(4) NEXT # 2198 DRTR "818384858687122224"," 929719222324", "96971324", "929719 2324", "06071324", "02040506101322 2324", "020405061013222324", "0607 24", "0304222324", "02040607102223 24", "838414222324", "818586871213 222324", "92939414222324", "929394 19222324", "93949714222324", "2324

2199 REM ************** 2200 REM READ IN DEFENCE WEAPONS AGAINST EACH MONSTER

2201 RFM ************** 2218 DTM D#(19,18) 2220 FOR a=1 TO 19: READ D#(a): NEYT .

2238 DATA "09111519", "0209101115 19", "0708151920", "02070910111519 ", "071319", "020708091011131519", "020708091011131519", "0708151920 ", "89111519", "8287891811131519", "020910111519", "091113151920", "0 20910111519", "020910111519", "070 91519", "192021", "1520", "21", "21" 2239 REM **************

2240 REM COMBAT RATINGS 2241 REM *************

2250 DIM V(16) 2260 FOR am1 TO 16: RESD V(a): N CYT .

2270 DATA 70,70,20,40,70,50,50,5 8,28,58,28,58,68,28,38,28 2279 REM XXXXXXXXXXXXXXXXXXXXXXX

2288 REM MONSTER COLOURS 2281 RFM ****************

2388 FOR am1 TO 16: RESD PCa >: N FXT .

2298 DIM P(16)

2318 DRTR 7.7.2.3.2.5.5.7.4.2.6. 6.4.4.3.1 2319 DEM ****************

2328 REM TREASURE COLOURS 2221 REM **************** 2338 DIM W(17) 2348 FOR #=1 TO 17: READ W(#): N

FXT A 2350 DRTB 7.2.7.5.5.6.3.6.6.2.3. 6.5.6.3.4.7 2359 RFM **************

2360 REM SET UP STRIRS, HEALING WELL and FIRE PIT 2361 REM ************** 2378 LET SONE=INT (RND#98)+18 2388 IF C(SONE)=999 THEN GO TO 2

379 2390 LET STWO=INT (RND#90)+110 2480 IF C(STNO)=999 THEN GO TO 2

2418 LET STHREE=INT (RND#98)+218 2428 IF C(STHREE)=999 THEN GO TO 2418

349

2438 LET HW=INT (RND#98)+1 2440 IF C(HW)=999 THEN GO TO 243

2450 LET FP#INT (RND#98)+108 2460 IF CYFP 1#999 THEN GO TO 245

2470 LET FLOOR=1: LET LOCATION=1 2! LET PX=6: LET PY=6: LET STREN GTH=100: LET COMBAT=0: LET SPELL #8: LET PER#8: LET WOUNDS#8: LET SMERT LET HELDER! LET RETER! LE

T WHRND=0: LET STONE=0 2475 DIM H(12) 2480 DIM X#(12,12) 2498 FOR ##8 TO 12: PRINT PAPER

R: THE 1:AT A.R." " NEXT A

2518 PRINT PAPER 1: INK 5:8T 8:1 9: "ADVENTURE"

2528 PRINT PAPER 1; INK 7; RT 4,1 91 "STRENGTH " 2530 PRINT PAPER 1: INK 7:8T 6.2 21"FLOOR 2540 PRINT PAPER 1: INK 7:8T 8.1 4: "STATUS MODE 2550 PRINT PRPER 1: INK 7:0T 10. 14: "COMPAT PATTNG 2560 PRINT PAPER 1; INK 7; AT 12, 21: "WOUNDS 2569 REM ************* 2579 REM SET UP AND PRINT GRAPHICS OF ROOM 2571 REM XXXXXXXXXXXXXXXXXXXXXXXX 2580 LET X#K1,1 TO 12 =" 2590 LET X\$(2,1 TO 12)=" iiiiiii 2680 FOR #=3 TO 10 2618 LET X#(a,1 TO 12)=" i 2638 LET X\$(11,1 TO 12)=" iiiiii 1111 " 2640 LET X\$(12,1 TO 12)=" 2650 IF CCLOCATION-10 X >999 THEN LET X\$(2,6 TO 7)=" " 2660 IF CCLOCATION+10 X 2999 THEN LET X8(11.6 TO 7)e" " 2670 IF CCLOCATION-1 X 2999 THEN LET X8(6.2)=" " 2680 IF CKLOCATION-1 XX999 THEN LET X\$(7,2)=" " 2698 IF C(LOCHTION+1 X)999 THEN LET X8(6,11)=" " 2700 IF CKLOCATION+1 X >999 THEN LET X\$(7,11)#" " 2718 IF SONE=LOCATION OR STWOM OF CATION OR STHREE-LOCATION THEN I FT X8(3.18)m"L" 2720 IF HW-LOCATION THEN LET XXX 3,4)="1"

2730 IF FPHLOCATION THEN LET XM 3.4)="n" 2740 LFT a=T(LOCATION) 2750 IF #=0 OR #>=18 THEN GO TO 2790 2760 GO SUB 130 2770 FOR 4=0 TO 7: READ b: POKE LISR "o"+a,b: NEXT a 2788 IF RET=1 THEN RETURN 2790 LET AMS(LOCATION) 2800 IF ##R THEN GO TO 2830 2810 GO SUB 130 2820 FOR 4=0 TO 7: READ b: POKE USR "P"+a,b: NEXT a 2830 IF RET=1 THEN RETURN 2848 LET #=M(LOCATION) 2850 IF 4=0 THEN GO TO 3660 2860 GO SUB 280 2870 FOR a=0 TO 7 2880 READ b: POKE USR "9"+a,b 2890 READ b: POKE USR "u"+a,b 2988 NEXT = 2910 LET A=MCLOCATION>: GO SUB 0 439 2928 FOR ##R TO 7 2930 READ b: POKE USR "r"+a,b 2940 READ b: POKE USR "t"+a,b 2950 NEXT # 2960 REM **SPADE** 2970 DATA BIN 00000101, BIN 00000 818, BIN 00000101, BIN 01001000, BI N 01110000, BIN 01110000, BIN 0111 1000 BIN 0 2988 REM XXFIRE UNIPXX 2990 DATA BIN 0, BIN 00000111, RIN 10001011, BIN 10001011, BIN 10001 011, BIN 10010011, BIN 11100011, BI NB 3998 REM **SWORD** 3010 DATA BIN 00001001, BIN 00000 118.BIN 88888118.BIN 88881881,BI N 80010000, BIN 00100000, BIN 0100 8889, BIN 10088888 3828 REM **STRFF**

3838 DATA BIN 00001110.BIN 00001 418.BIN 00000010.BIN 00000100.BI N 00001000.BIN 00010000.BIN 0010 0000.BIN 01000000

3040 REM **TALISMAN**

3050 DATA BIN 00011000,BIN 01100 110.BIN 10100101,BIN 10011001,BI N 10011001,BIN 10100101,BIN 0110 0110.BIN 00011000

3060 REM **CROSS** 3070 DATA BIN 00111100,BIN 11100 111,BIN 10000001,BIN 11100111,BI N 00100100,BIN 00100100,BIN 0010

0100,BIN 00111100 3080 REM **SHIELD**

3080 REM **SHIELD** 3090 DATA BIN 00011000.BIN 01111 110.BIN 11111111.BIN 11111111.BI N 11111111.BIN 111111111.BIN 0111

3100 REM **TORCH** 3100 REM **TORCH** 3110 DATA BIN 00110111,BIN 01101

3130 DATA BLN 00011000, BIN 00100 100, BIN 00100100, BIN 01000010, BI N 01000010, BIN 01000010, BIN 0110 0110, BIN 00111100

3140 REM **CLUB** 3150 DATA BIN 00000011,BIN 00000 111,BIN 00001110,BIN 00111100,BI N 01111000,BIN 11111000,BIN 1111

0000.BIN 11110000 3160 REM **HOLY WATER+BOTTLE** 3170 DATA BIN 0.BIN 00011000.BIN 00011000.BIN 00011000.BIN 00111

188,BIN 0111110,BIN 0111110,BI N 00111100 3180 REM **BON & ARROWS** 3190 DATA BIN 01111100,BIN 01001 110,BIN 00100111.BIN 00010011,BIN N 01001001.BIN 0010010,BIN 0001 3200 REM ##ENCHENTED SHIELD## 3210 DATH BIN 80111106.BIN 01111 110.BIN 01000010.BIN 0101101.BI N 01011010.BIN 01000010.BIN 0111 110.BIN 00111100

3220 REM **SANDMRN TOP***
3230 DATA BIN 0.BIN 0.BIN 000000
11.BIN 11000000.BIN 0000111.BIN
11100000.BIN 00001101.BIN 10110
000.BIN 0011011.BIN 11111100.BI
N 0111111.B.BIN 9111111110.BIN 1100
1100.BIN 00110011.BIN 110011111

IN 00010001.BIN 10001000.BIN 000
10001.BIN 10001000
3260 REM %*FIRE ELEMENTAL TOP%X
3270 DATH BIN 00101101.BIN 0010
000.BIN 10100011.BIN 101000000.BI
N 1001011.BIN 1101100.BIN 0100
111.BIN 11101001.BIN 01011111.BIN
110110001.BIN 00111111.BIN 1111
1101001.BIN 00111111.BIN 111
11010.BIN 00111110.BIN 011111100.BIN 01111100

BIN 00111100,BIN 00111100
3200 REM ##GIRNT SERPENT TOP##
3290 DTRE BIN 0.BIN 0.BIN 0.BIN 000000
01,BIN 10000000,BIN 00000001.BIN
11100000,BIN 00000001.BIN 11110
000,BIN 00000001.BIN 110000001.BIN
N 000000111,BIN 0.BIN 00000110.BI
N 0.BIN 00000011.BIN 10000001.BIN
N 0.BIN 00000011.BIN 100000110.BIN
N 0.BIN 000001111.BIN 11111000

160

0011, BIN 00001000

3220 REM **SKELETON TOP*\$*
3330 DATA BIN 0.BIN 0.BIN 0.BIN
0.BIN 00000001.BIN 11000000.BIN
00000001.BIN 11000000.BIN 000000
01.BIN 11000000.BIN 0.BIN 100000
00.BIN 10000001.BIN 11100000
00.BIN 10000001.BIN 11100000
00.BIN 00000011.BIN 11100000.BIN
00000011.BIN 11100000.BIN

3340 REM ***CYCLOPS TOP** 3350 DATA BIN 0.BIN 0.BIN 0.BIN 0.BIN 00000001.BIN 10000000.BIN 00000011.BIN 11000000.BIN 000000 10.BIN 01000000.BIN 00000011.BIN

11800000,BIN 00000001,BIN 10000 000,BIN 00000011,BIN 11000000 3360 REM **MUMMY,ZOMBIE,VAMPIRE,

LICH TOP=XX
3378 DATA BIN 8,BIN 8,BI

3380 REM **BALROG TOP**
3390 ATR BIN 00000018.BIN 01000
000.BIN 00000019.BIN 01000000.BI
N 00000010.BIN 01000000.BIN 00000011.BI
N 11000000.BIN 00000011.BI
N 110000000.BIN 00000011.BI

@0000.8.BN 00000001.8IN 10000000.
BIN 0000001.5IN 10000000.
3409 REM XXMIND VMMPIRE TOPXX
9410 DATH BIN 0000001.5IN 1000000.
9410 DATH BIN 00000001.5IN 1000000.
100.8IN 00000011.5IN 1100000.8IN 00000011.8IN 1100000.8IN 00000011.8IN 1100000.8IN 00000011.8IN 1100000.8IN 00000011.8IN 1100000.8IN 00000011.8IN 110000001.8IN 1100000001.8IN 1100000001.8IN 1100000001.8IN 1100000001.8IN 1100000000.

 011,BIN 11001111,BIN 01111001,BI N 10011110,BIN 01111111,BIN 1111

3440 REM **DEMON TOP**

3436 DATH BIN 08080818.BIN 01000 000.BIN 00000011.BIN 11000010.BI N 01000010.BIN 01000110.BIN 0110 0011.BIN 11000111.BIN 01110011.B IN 11001110.BIN 01110011.BIN 110 0111.BIN 01111001.BIN 10111110 BIN 011111.BIN 0111100

3450 REM NRRITH TOP#X 3470 DATE BIN 0.BIN 0.BIN 000000 01.BIN 10000000.BIN 00000011.BIN 110000000.BIN 11000111.BIN 11100 011.BIN 11101101.BIN 10110011.BI N 01101111.BIN 11110110.BIN 0110 110.BIN 01110110.BIN 0111100.B

IN 00111100 3480 REM XXUEREUDI E ROTTOMXX

3498 DATA BIN 00010001,BIN 10001 000,BIN 00000010,BIN 01000000,BI N 00000100,BIN 00100000,BIN 0000 1000,BIN 0001000,BIN 00001000,BIN 000 N 00010000,BIN 00001000,BIN 000 1000,BIN 00011000,BIN 00011000,BIN 000

BIN 0.5IN 0
3500 REM %XSANDMAN BOTTOM*X
3500 REM %XSANDMAN BOTTOM*X
3310 DATA BIN 00001111.BIN 11110
000.BIN 00001100.BIN 00110000.BIN
00011000.BIN 00011000.BIN 001
100001100.BIN 00110000.BIN 0010
1100.BIN 01110000.BIN 001000.BIN
1100.BIN 01110000.BIN 001001110.BIN 0011000.BIN 00100

3520 REM ***GIANT SERPENT BOTTOM**

* 3530 DATA BIN 00011111,BIN 11111
000.BIN 00110000.BIN 0.BIN 00111
111,BIN 11111100.BIN 0111111.BI
N 11111100.BIN 011000000.BIN 0.BI
N 01111111110.BIN 11111110.BIN 0111
1111.BIN 111111110.BIN 0.BIN 0

3540 REM **FIRE ELEMENTAL BOTTOM

3550 DATA BIN 10011110.BIN 01110 100.BIN 10111111.BIN 11111001.BIN 011100000.BIN 11101101.BIN 0011 0010.BIN 11001110.BIN 01100100.B IN 00001100.BIN 0111000.BIN 001 00110.BIN 011000000.BIN 00011110. BIN 111000000.BIN 00011110.

3590 REM ***HARPIE BOTTOM***
3590 DATA BIN 81111811.811
110.BIN 8111081.BIN 18181110.BI
N 81181130.BIN 1811810.BIN 911
1101.BIN 1811110.BIN 91111910.BIN 911
1101.BIN 18111110.BIN 9111910.BIN 981
N 81011110.BIN 9111910.BIN 981
90110.BIN 81109100.BIN 981

BIN 01001100,BIN 00110000 3600 REM **CYCLOPS*MUMMY*ZOMBIE* VAMPIRE*BALROG*MIND VAMPIRE*LICH

3630 DATA BIN 11111001.BIN 11001 111.BIN 11111101.BIN 11011111.BI N 11111111.BIN 1111111.BIN 1111 1101.BIN 11011111.BIN 11111001.BIN 100 IN 11001111.BIN 11110001.BIN 100 00111.BIN 110000119.BIN 000000011

BIN 18011100, BIN 00000001

S-40 REP MARRITH BOTTONS
SSES DATH BIN 11110
BOOD, BIN 00001111.1811 1110
BOOD, BIN 11110
BOOD, BIN 1110
BOOD,

3760
3720 LET SX=INT (RND*5)+4: LET S
y=INT (RND*5)+4
3738 IF SX=WX RND SY=WY THEN GD

TO 3720
3740 LET X#(SY,SX)="P"
3750 LET MSC=M(S(LOCATION))
3760 IF T(LOCATION)</br>
0 3800

3:78 IF T(LOCATION)=8 THEN LET B
Y=INT (RND45)=4
3:788 IF T(LOCATION)=8 THEN LET B
X=INT (RND45)=4
3:798 IF X=K8FY_BXX>" " THEN GO T

0 3768 3800 IF MCLOCATION>(1 THEN GO TO 3820 3810 LET MC=P(MCLOCATION>)

3820 PRINT AT 0.0;" " 3830 FOR a=1 TO 12 3840 PRINT TAB 1;XM(a,1 TO 12)

3850 NEXT A 3860 PRINT PAPER 0: INK 4: BRICH 1 1:8T 12:3; "ROOM "; C(I OCSTION); 3870 PRINT INK WEC: BRIGHT 1:8T MY. MX: "O" 3880 PRINT INK WSC, BRIGHT 1/8T SY, SK, "P" 3690 IF HW=LOCATION THEN PRINT I NK 5:8T 3.4: "1" 3900 IF FP=LOCATION THEN PRINT I NK 2: PAPER 6: BRIGHT 1: FLASH 1 IRT 3.4:"m" WHIR PRINT THE GUAT PV. PV. " !" 3920 IF T(LOCATION)=0 AND WHAND= 1 THEN PRINT INK 4: BRIGHT 1: AT BY, BX-2; "ab" 3930 IF MCCOCRTION X1 THEN GO TO 3998 3948 LET MY=6: LET MX=6 3945 LET PERSYCHOLOGRETION) 3950 LET PERMPER-(MOUNDS#5) 3960 IF PERCO THEN LET PERSO 3970 IF PER>100 THEN LET PER=100 3980 PRINT INK MC; BRIGHT 1; AT M Y.MX;"QU"; AT MY+1, MX; "RT" 3998 GO SUB 68 4888 GO SUB 798 4010 GD SUB 530 4019 RFM ***************** 4020 DEM TAPLIT YOUR COMMOND 4021 REM ************** 4938 LET #=8 4840 DIM B#(32) _ 4950 LET RETHO 4868 LET COMBRIER 4979 IFT V=9 4080 LET S#=INKEY# 4090 IF CODE S#=12 OR CODE S#=48 4090 IF CODE S\$#12 OR CODE S\$#48 4080 N.FT SEETNKEYS 4898 IF CODE Stell OR CODE Stell THEN CO TO 4239

4100 TF CODE S##13 THEN GO TO 42 /8 4118 (FT a=a+1 4128 IF #>=68/FLOOR THEN GO TO 4 930 4138 IF S#="" THEN GO TO 4888 4148 IF S9="5" OR S\$="6" OR S9=" /" UR SE="8" THEN GO TO 4400 4150 IF k >= 31 THEN GO TO 4080 4168 LET kek+1 4170 LET B\$(k)=S\$: LET B\$(k+1)=" 4:88 PRINT AT 21,0;80: BEEP 0.1, 4190 LET a=a+1 4200 IF A >=60/FLOOR THEN GO TO 4 4218 IF THREYSKY" THEN GO TO 41 4228 GO TO 4888 4230 IF KK1 THEN GO TO 4888 4240 LET B\$(k)=">": LET B\$(k+1)= 4250 LET k=k-1 4260 GO TO 4180 4270 GO SUB 60 4280 IF B\$(TO 4)="TRKE" THEN GO TO 5128 4290 IF B\$(1)="I" THEN GO TO 544 4388 IF B#K TO 4>="DROP" THEN GO 10 5598 4318 IF 88(TO 4)="WRIT" THEN GO 10 6878 4320 IF B\$K TO 4 >= "LOOK" THEN GO TO 4858 4330 IF B\$K TO 3>="DIG" THEN GO . in 6298 4348 JE BSC TO 50="DRINK" THEN G 0.70.6988 4350 IF B\$(TO 2)="UP" OR B\$(TO 4)= "DOWN" THEN GO TO 6140

4350 IF RMC TO 2)#"UP" OR RMC TO 4)="DOWN" THEN GO TO 6149 4355 TE RMC TO 3 IN "MAP" THEN CO. TO 8718 4360 IF B\$(TO 8)="TELEPORT" THE N GO TO 6729 4365 IF RM TO 4 14"SBUE" THEN CO TO 8500 4370 PRINT INK 5; BRIGHT 1; "I do nt understand your command." 4389 GO TO 4949 4389 RFM ************** 4390 REM MOVE PLAYER 439) DEM **************** 4400 LET TX=PX: LET TY=PY 4410 IF S#="N" THEN LET S#="5" 4420 IF S#="S" THEN LET S#="6" 4439 IF SE="N" THEN LET SE="7" 4449 IF SER"F" THEN LET SER"S" 4450 IF SER"S" THEN LET TX=TX-1 4460 IF SER"6" THEN LET TYSTY+1 4470 IF S#="7" THEN LET TY=TY-1 4480 IF S\$="8" THEN LET TX=TX+1 4500 LET SM#SM+1 4510 IF SMC#8 THEN GO TO 4550 4529 LET STRENGTHESTRENGTH-(1+MO LINDS 4530 GD SUB 530 4548 LET SM=8 4550 IF X#KTY,TX>="i" THEN GO TO 4560 IF TYCZ OR TYX11 THEN GO TO 4570 IF TX<2 OR TX>11 THEN GO TO 4749 4580 LET COL=6 4590 IF X\$(PY,PX)="0" THEN LET C OI HUFC 4600 IF X#KPY,PX>="P" THEN LET C 4618 IF X#KPY,PX>="1" THEN LET C 01.=54628 PRINT INK COLUBRIGHT 1:8T P Y.PX:XB(PY.PX)

+630 IF FP=LOCATION THEN PRINT INK 21 PAPER 61 BRIGHT 11 FLASH 1:8T 3.4:"m" 4649 IF TOURCRITION >= 9 BND WHBND= THEN PRINT INK 4: BRIGHT 1:8 T BY, BX-21 "ab" 4650 IF MO DORTION YOU THEN PRI NY INK P(M(LOCATION)); BRIGHT 1 :AT MY.MX; "qu";AT MY+1,MX; "rt" 4660 PRINT BT TY, TX; "J" 4665 LET PY=TY: LET PX=TX 4670 IF X#(PY,PX)(>"1" THEN GO TO 4635 4675 LET WOUNDS=0 4680 GO SUB 530 4685 IF STONE=1 AND X8(PY,PX)="m " THEN GO TO 7070 4698 IF PYEMY BND PXEMX OR PYEMY AND PX=MX+1 OR PY=MY+1 AND PX=M X OR PYEMY+1 BND PXEMX+1 THEN C 0 TO 7129 4700 LET a=a+2+WOUNDS 4718 IF #>=68/FLOOR THEN GO TO 4938 4728 GO TO 4848 4729 RFM XXXXXXXXXXXXXXXXXXXXXX 4730 REM MOVE TO NEW ROOM 4731 REM *************** 4748 IF S#="5" THEN LET LOCATIO N=LOCATION-1 4750 IF SE="5" THEN LET PX=11 4760 IF S#="6" THEN LET LOCATIO NEL DICETTON+18 4778 IF S\$="6" THEN LET PY=2 4/80 IF Smm"Z" THEN LET LOCATIO Nei OCSTION-19 4790 IF 94="7" THEN | FT PY=11 4800 IF S#="8" THEN LET LOCATIO N=LOCATION+1 4818 IF SE="8" THEN LET PX=2 4828 FOR ret TO 11: PRINT BT r.R. " ": NEXT r 4830 GO TO 2580 4839 REM **************

4848 REM LOOK COMMAND 4850 GO SUB 60 4860 GO SUB 798 4870 IF COMBAT NO THEN GO TO 489

4888 GO TO 4848 4890 IF COMBAT=3 THEN PRINT "Th e Lich is attacking you with a"; MWK M(LOCATION))

4900 PRUSE 300 4905 IF COMBAT=1 THEN GO TO 714

4918 IF COMBRET=2 THEN GO TO 761

4915 GO TO 8090 4919 REM ***************

4928 REM MONSTER MOVEMENT 4921 REM XXXXXXXXXXXXXXXXXXXXX 4930 LET TY=MY: LET TX=MX

4935 LET a=0 4940 IF PYCTY THEN LET TY=TY-1 4950 IF PYSTY THEN LET TY=TY+1

4960 IF PX>TX THEN LET TX=TX+1 4978 IF PXCTX THEN LET TX=TX-1 4980 IF TYK3 OR TYX9 OR TXK3 OR

TX39 THEN GO TO 4080 4990 PRINT BT MY, MX; X9(MY, MX); BT

mY, mX+1, X#K MY, MX+1) 5000 FRINT BT NY+1, MX; XBCMY+1.MX 318T MY+1, MX+1; X#(MY+1, MX+1)

SOLO PRINT INK WECHAT WY WX XSC UV. UX 5020 PRINT INK WSC; RT SY, SX: XSC

SY.SX) 5030 TE HUMLOCATION THEN PRINT INK 5,8T 3,4,"1"

5040 IF FP=LOCATION THEN PRINT INK 21 PAPER 61 BRIGHT 11 FLASH

1:8T 3.4:"m" 5050 IF TOLOCATION >= 0 AND WHAND= 1 THEN PRINT INK 4; BRIGHT 1;A T BY, BX-2; "ab"

SMEM PRINT AT PY,PX;"J"

SMER PRINT [NK P(M(LOCATION))) BRIGHT 1/AT TY, TX/ "9u"/AT TY+1, T 5080 LET MY=TY: LET MX=TX

5000 IF MY=PY AND MX=PX OR MY=PY AND MX+1=PX OR MY+1=PY AND MX=P X OR MY+1=PY AND MX+1=PX THEN G U TO 7590

5100 GO TO 4080

5109 REM ************** 5110 REM TAKE OBJECT

5111 REM ************* 5120 IF XB(PY,PX)X>"1" THEN GO

10 5200 5130 FOR r=1 TO 12 5140 IF H(r)=16 THEN GO TO 5170

5150 NEXT r 5160 PRINT "You need an empty bo ttle to collect water from t

he healing well.": GO TO 4848 5178 LET H(r)=17 5180 PRINT "You have collected a hottle fullof healing water."

5198 OF TO 4848 5200 IF X#(PY,PX)="0" OR X#(PY,P x>="p" THEN GO TO 5230 5210 PRINT "I see nothing to Pic

k uP." 5220 GO TO 4040 5238 TE HELDCS THEN GO TO 5268 5240 PRINT "Sorry) you cannot ca

rry anymore treasures." 5250 GO TO 4040 5260 FOR r=1 TO 12 5278 IF H(r)=8 THEN GO TO 5388

5288 NEXT n 5298 GO TO 5248 5300 IF X\$(PY,PX)="o" THEN LET H(r)=T(LOCATION)

5310 IF X9(PY,PX)="P" THEN LET H(r)=8(LOCATION)

5320 PRINT "You have Picked up:" 5330 IF X\$(PY,PX)="o" THEN PRIN

T THE TOURDESTION YOU

5340 IF XMKPY.PX.="9" THEN PRIN T TMCS(LOCATION) 5350 LET HELD=HELD+1 5360 IF MMKPY.PX.>="0" THEN LET

T(LOCATION)=99 5370 IF X#(PY,PX)="P" THEN LET

S(LOCATION)=0 5380 LET X\$(PY,PX)=" "

3390 LET r=INT (RND*290)+1 5400 IF C(r)*999 OR T(r)=18 THEN 50 TO 5390

GO TO 5390 5418 LET T(r)=INT (RND*15)+1

5428 GO TO 4848 5429 REM *****

5430 REM INVENT 5431 REM ****** 5440 GO SUB 60

5450 LET d=13: LET r=0 5450 LET d=13: LET r=0 5460 FOR b=1 TO 12 5470 IF H(b)=0 THEN GO TO 5520

5470 IF HKb)=0 THEN GU TU 5 5480 LET d=d+1 5490 IF d=20 THEN LET r=17 5580 IF d=20 THEN LET d=14

5518 PRINT AT diriT\$(H(b))

5530 IF COMBAT>0 THEN GO TO 555

5540 GO TO 4040 5550 PAUSE 500 5560 IF COMBAT=1 THEN GO TO 714

0 5570 IF COMBAT=2 THEN GO TO 761

0 5575 IF COMBRT=3 THEN GO TO 889

0 5579 REN **** 5580 REM DROP

5381 REM **** 5598 LET RET=1 5608 IF PY=2 OR PY=11 OR PX=2 OR PX=11 THEN GO TO 5628

5610 GO TO 5640 5620 PRINT "You cannot drop obje

5620 PRINT "You cannot drop objects in the doorway."

5630 G0 T0 4840 5640 LET B8(x+1)="" 5630 LET Se=6846 T0 20) 5650 FOR r=1 T0 22 5270 IS Gestator) THEN CO TO 571

5660 FOR r=1 TU 22 5670 IF S#=T#(r) THEN GO TO 571 0 5680 NEXT r

5680 NEXT r 5690 PRINT "I don't understand w hat you wantme to drop." 5700 GO TO 4040

5700 GO TO 4040 5710 IF r<18 THEN GO TO 5780 5720 IF r<>18 OR r<>25 THEN GO

TU 5760 5730 PRINT "You cannot drop the" 5740 PRINT T#(r) 5750 GO TO 4040

5750 GO TO 4040 5760 PRINT "You cannot drop some thing that exists in your memor

9." 5770 GO TO 4040 5780 FOR b=1 TO 12

5790 IF H(b)=r THEN GO TO 5830 5800 NEXT b 5810 PRINT "You cannot drop some

thing you do not carry."
5828 GO TO 4848
5838 LET H(b)=8
5848 IF S(LOCATION)=8 OR T(LOCAT

10N3-95 THEN GO TO 5870 5850 FRINT "Invisible Imps carry off the treasure you have Ju st dropped." 5860 GO TO 6840

5670 IF S(LOCATION)=0 THEN GO T 0 5890 5880 GO TO 5960

5890 LET S(LOCATION)=r 5980 GO SUB 2790 5910 LET SX=INT (RND*5)+4: LET S

Y=INT (RND*5)+4 5920 IF X#(SY.SK)<>" " THEN GO TO 5910 S930 LET X#(SY.SX)="P": LET WSC=

5930 LET X#(SY,SX)="P": LET WS W(r)

5940 PRINT INK WSC; BRIGHT 1; RT SY,SXJX#(SY,SX) 5950 GO TO 6020 5960 LET T(LOCATION)=r 5978 GO SUB 2748 5980 LET WY=INT (RND#5)+4: LET W X=INT (RND#5)+4 5990 IF XB(WY, WX)(>" THEN GO TO 5988 6000 LET X\$(WY, WX)="0": LET WFC= 6010 PRINT INK WEC; BRIGHT 1/8T WY, WX; X#CWY, WX) 6828 PRINT BT PY PX:"3" 6838 IF MCLOCATION X NA THEN PRI NT INK P(M(LOCATION)); BRIGHT 1 AT MY, MX; "qu"; AT MY+1, MX; "rt" 6840 LET HELD=HELD-1 6959 GD TD 4939 6859 REM **** 6069 REM WAIT 6061 REM **** 6888 PRINT INK 2: BRIGHT 1: FLB UM 1." MAITING ": THE 5: FLASH & "Phase Enten to continue" 6898 IF INKEY\$ (>"" THEN GO TO 6 6100 IF INKEYS="" THEN GO TO 61 6) 10 CO SUB 60 6128 CO TO 4848 6129 REM ************** 6130 REM CLIMB STAIRS 6131 REM ************** 6140 IF X#KPY,PX)="k" THEN GO T 11 6179 wise PRINT "You can't do that -you must find the stairway." 6168 GO TO 4949 6170 IF B\$(TO 2)="UP" AND LOCAT ION=STHREE THEN GO TO 6260 5188 IF BSC TO 40="DOWN" AND LOC

6190 IF RMC TO 2)="UP" AND LOCAT ION-STHO THEN LET LOCATION-STHR EE 6288 IF BOK TO 2)="UP" AND LOCAT ION#SONE THEN LET LOCATION#STWO 6218 IF BBK TO 4)="DOWN" AND LOC ATTON=STWO THEN LET LOCATION=SO NE 6228 IF RM TO 43#"DOWN" AND LOC ATTONASTHREE THEN LET LOCATIONS STWO 6230 IF B#K TO 2>="UP" THEN LET FLOOR=FLOOR+1 6240 IF B\$K TO 4)="DOWN" THEN L ET FLOOR=FLOOR=1 6250 GO TO 2580 6260 PRINT "You can't 90 that wa w. " 9. -6270 GO TO 4040 6279 REM **** 6280 REM DIG 6281 REM *** 6290 FOR r=1 TO 12 6300 IF HK->=1 THEN GO TO 6340 6318 NEXT P 6320 PRINT "You will need a spad . " 6330 GO TO 4040 6340 IF BY=PY AND BX=PX THEN GO TO 6378 6350 PRINT "There is nothing bur 1ed here." 6360 GO TO 4040 6370 IF WHRND=1 THEN GO TO 6400 6380 PRINT "You won't find burie d treasure without the Wizards hand." 6398 GO TO 4848 6398 GO TO 4848 6488 LET r=INT (RND#4)+1 6410 PRINT RT BY BX-2:X8(BY BX-2 1:XM(RY.RX-1) 6420 GO SUB 60 6438 IF r)2 THEN LET b=INT (RND *6)+19

BTION#SONE THEN GO TO 6260

6440 IF rC=2 THEN LET b=INT (RN DX150+1 6450 IF b>18 THEN GO TO 6550 6460 LET T(LOCATION)=b 6480 LET WYERY: LET WYERK 6490 LET BY=0: LET BX=0 6588 LET RET=1 6518 GO SUB 2748 6528 LET X#(WY, WX)="o" 6538 LET WFC=W(T(LOCATION>) 6549 GO TO 4949 6550 PRINT "You can now use a:" 6560 PRINT T#(b) 6570 LET T(LOCATION)=99 6580 LET d=INT (RND#290)+1 6598 IF T(d)=8 OR ((d)=999 THEN GO TO 6588 6699 | FT T(N)=9 6610 LET BY=0: LET BX=0 6628 FOR r=1 TO 12 6630 IF HCr >= b THEN GO TO 4040 6648 NEXT r 6658 FOR r=1 TO 12 6660 IF HCr)=0 THEN GO TO 6680 6679 NEXT P 6689 I ET H(n)mh 6690 LET SPELL=SPELL+1 6700 GO TO 4040 6799 RFM ****** 6710 REM TELEPORT 6711 REM RESERVE 6728 GO SUR 68 6730 FOR d=1 TO 12 6740 IF H(d)=19 THEN GO TO 6780 6750 NEXT d 6768 PRINT "You don't know that spell." 6770 GO TO 4840 6780 LET LOCATION=INT (RND#290)+ 6798 IF COLOCATION >=999 THEN GO TO 6788

6880 LET PY=3: LET PX=3: 6810 LET STRENGTH=STRENGTH-50 6820 GO SUB 530 6630 GO TO 2580 6639 REM ******* 6840 REN RESTART 6841 REM ******** 6850 PRINT "Press ENTER to start neu Game." 6860 IF INKEY#<> " THEN GO TO 6 6870 IF INKEYS="" THEN GO TO 68 SOUR PLN
SOU 6900 FOR r=1 TO 12 6910 IF H(r)=17 THEN GO TO 6900 6920 NEXT r 6930 FOR r=1 TO 12 6940 IF H(r)=13 THEN GO TO 7030 6950 NEXT r 7910 PRINT "You drink a bottle o realing outer."
7900 LET HY-745
7900 LET HY-745
7900 PRINT "You drink a bottle o roots water."
7900 PRINT "You drink a bottle o roots water."
7900 PRINT "You drink a bottle o roots water."
7900 PRINT "You drink a bottle o roots water."
7900 PRINT "You drink a bottle o roots water."
7900 PRINT "HAND "YOU DRINK"
7900 PRINT "HAND "HAND "YOU DRINK"
7900 PRINT "H HT 1; FLASH 1;AT PY,PX;" "
7880 GO SUB 60

7090 PRINT "The eye is destroyed and the land will remain fre e of evil." 7100 GO TO 6850 7109 REM *************** 7118 REM COMBAT ATTACK POLITINE 7111 REM ################# 2128 PRINT INK P(M(LOCATION)); BRIGHT 1;AT MY,MX; "qu";AT MY+1,M 7130 IF MCLOCATION)=16 THEN GO TO 8050 7140 LET COMBRT=1: GO SUB 50 7150 PRINT "Choose a weapon and attack." 7168 IF INKEYSKO"" THEN GO TO 7 168 7179 INPUT SE 7180 IF Sa="W" OR Sa="S" OR Sa=" N" OR S##"E" THEN GO TO 4480 7190 IF SO-"I" OR SO-"INVENT" TH EN GO TO 5440 7200 IF SE="LOOK" THEN GO TO 48 7218 IF | FN S#)32 THEN GO TO 72 7220 PRINT INK 5; BRIGHT 1; S\$ 7230 GO SUB 1070 7240 IF r>0 THEN GO TO 7270 7250 GO SUB 1470 7268 GO TO 7158 7270 GO SUB 1150 7280 IF TRE=1 THEN GO TO 7310 7290 PRINT "You don't have that HEAPon." 7300 GO TO 7610 7318 IF SEE "TELEPORT" THEN GO T II 6729 7320 LET STRENGTH-STRENGTH-CHILIN DS+1) 7330 IF r>18 THEN LET STRENGTH=

7360 IF r>0 THEN GO TO 7410 7370 PRINT "Your weapon is usele es against" 7380 PRINT "the "; M\$(M(LOCATION) 21 ". " 7390 GO SUB 1520 7480 GO TO 7618 7410 IF INT (RND#100)+1(PER THEN GO TO 7478 7428 PRINT "You have wounded the 7438 PRINT M&(MCLOCATION)) 7440 LET PERMPER+10 7450 IE PER 100 THEN LET PER 10 7455 GO SUB 1520 7460 GO TO 7610 2478 IF MCLOCATION)=16 THEN GO TO 8218 7475 PRINT "You have destroyed t 7488 PRINT M®(M(LOCATION)) 2485 GO SUB 1528 /498 LET MKLOCATION >=0 2500 PRINT AT MY MX X XX MY MX) XS (8Y - 8X+1) 7518 PRINT BT MY+1, MX; XBK MY+1, MX 1: VB(NV+1 - NX+1) 7520 PRINT AT PY, PX; "J" 7538 PAUSE 100 7549 LET STRENGTH=STRENGTH+(100-PER) 7550 LET COMBAT=0: LET PER=0 7560 GO SUB 0050 7570 LET MY=0: LET MX=0: LET P=0 7588 GO TO 4838 7589 REM ************* 2590 REM COMBAT DEFENCE 7591 REM ************** 7600 IF M(LOCATION)=16 THEN GO 10 8868 7610 GO SUB 60 7620 LET COMBAT=2

STRENGTH-49

7340 LET WERPONER

7350 GO SUB 1230

7948 FOR r=1 TO 58: NEXT r

Spectrum Adventures 7630 IF MCLOCATION>=7 THEN GO S UB 1410 7640 PRINT "You are under attack choose yourdefence." 7650 IF INKEYSK>"" THEN GO TO 7 650 7660 INPUT SE 7670 IF S#="I" OR S#="INVENT" TH EN GO TO 5449 7680 IF S#="LOCK" THEN GO TO 48 50 7690 GO SUB 60 7700 PRINT "Choose your defence. 7710 IF LEN S\$\32 THEN GO TO 77 7720 PRINT INK 5; BRIGHT 1:S& 7738 GO SUB 1878 7740 IF r)0 THEN GO TO 7770 7759 GO SUB 1479 2768 GO TO 7648 7779 GO SUB 1159 7788 IF TRE=1 THEN GO TO 7828 7790 PRINT "You cant use that." 7888 IF COMBRT=3 THEN GO TO 883 7810 GO TO 7980 7820 IF S#="TELEPORT" THEN GO T 0.6728 7830 LET WERPONER 7840 LET STRENGTH=STRENGTH-(1+WD (ROS) 7850 IF r>18 THEN LET STRENGTHE STRENGTH-49 2869 GO SUB 1329 7870 IF r>0 THEN GO TO 7920 7880 PRINT "Your defence did not. Protect you" 7898 GD SUB 1528 7900 IF COMBRT=3 THEN GO TO 803

7050 IF COMRAT=3 THEN GO TO 812 7960 GO TO 7140 7969 RFM ************** 7990 FRINT "You have been wounde 8200 LET MOUNDS=MOUNDS+1 8010 IF PER>=5 THEN LET PER=PER -5 няга по то 7940 SMR PRINT "You have been slain. 8848 GO TO 6858 GOAG REN KKKKKKKKKKKKKKKKKKKKKK H850 REM COMBAT WITH LICH 8851 REM ************* 8868 LET LICH=INT (RND*208)+500 SM7M LET COMBAT=3 SARA LET SP=INT (RND*3)+17 8898 GO SUB 68 grap PRINT "The Lich attacks. Pr otect your- self from a ";M\$(sP) 8185 LET MKLOCATION)=sP 8110 GO TO 7650 8120 LET LICH=LICH-50 BIGS IF LICH)=50 THEN GO TO 808 8148 LET MCLOCATION)=16 8150 LET PER=20 8160 PRINT "The Lich has exhaust ed its magic Powers." 8170 PAUSE 200 8180 GD TO 7140 8200 REM LICH'S DERTH 8201 REM **************

7910 GO TO 7980 7920 PRINT "You defended well." 7938 GO SUB 1528

Spectrum Adventures 8218 PRINT "The Lich is dead. Yo u have won the magic stone- Eve of the StarWarrior. Now you mus t DESTROY it. The hand of the wizand vanishes. Its Job is over." 8220 FOR r=1 TO 12 8238 IF HCr)=18 THEN LET HCr)=2 8248 NEXT P 8250 LET WHONDER: LET STONE #1 8260 GO TO 7490 8489 REN XXXXXXXXXXXXXXXXXXXXXXXX 9490 REN SAVE GAME ROUTINE 3491 REM XXXXXXXXXXXXXXXXXXXXXXX 8500 SAVE "adventure" | THE SAGO SSIR SAVE "Shaphing" CODE 65368. 168 8520 SRVE "screen"SCREEN\$ 8538 GO TO 4848 8688 LORD "9raPhics"CODE 65368.1 8619 LOSD "screen"SCREENS 8629 BORDER B: PRPER B: INK 6 8638 POKE 23658.8 8648 CO TO 4848 8699 REM *** 8788 REM MAP 8781 REM *** 8718 IF FLOOR=1 THEN LET b=11 8728 TE FLOGRes THEN LET heilt 8730 IF FLOOR=3 THEN LET b=211 8735 LET f=14: LET 9=1 8740 FOR amb TO 9+b 8/50 LET e=0: LET d=6: LET 9=9+1 8768 IF C(a)=999 THEN GO TO 885 8770 IF S(4)X>0 THEN LET H=4 8780 IF M(a)X)0 THEN LET ent 8790 LET S##"c" 8800 IF S(a)>0 OR T(a)(>99 THEN LET SS="T" 8885 FRINT INK d. BRIGHT 1: FLA

SHIR IF A-LOCATION THEN PRINT A T f. 91 "P" 8820 NEXT A 9230 TE F#21 THEN GO TO 8860 8835 LET f=f+1: LET 9=1: LET b=b +18 8840 GO TO 8749 8850 PRINT AT f.9;"1" 8855 GO TO 8820 8860 PRINT AT 17,17; "Press ENTER 8865 IF INKEY##" THEN GO TO 88 8879 GD SUB 68 8875 GO TO 4838 6969 REM ************* 8490 REM SAVE PROGRAM TO BUTO BUN 8991 REM XXXXXXXXXXXXXXXXXXXXXX 9888 SAVE "Prog" LINE 5 9010 STOP

SH PIPT F.9188

Table of Variables

WHAND

STONE

| a | |
|----------|---|
| ь | |
| c | Variables for general use: FOR-NEXT loops etc. |
| d | |
| e | |
| r | |
| C(X) | C array where x is the value of your location. C array holds the layout of the dungeon. C(x) has the value 999 when it simulates a wall. Otherwise C(x) is given a value representing a room number. |
| M(x) | Array holds the information needed for the computer to judge what monster if any is in a particular room. |
| T(x) | Array holds the information needed for the computer to judge what treasure if any is in a particular room. T(x) has the value zero when there is buried treasure and holds the value 99 when there is no treasure in a room. |
| M\$(x) | Holds the names of all the monsters in the game. |
| T\$(x) | Holds the names of all the treasures in the game. |
| A\$(x) | Holds information telling the computer which weapons each of the monsters are vulnerable to. |
| D\$(x) | Holds information telling the computer which defence is useful against each monster. |
| V(x) | Holds the values for your Combat Rating. |
| P(x) | Array holds the colour values for each monster. |
| W(x) | Array holds the colour values for each treasure. |
| S(x) | Array holds information telling the computer the type and whereabouts of any treasures you might have dropped. |
| X\$(y,x) | Holds the graphic layout of your location. X\$ is the graphic display printed top left of your screen display. |
| SONE | Location of stairs on floor 1. |
| STWO | Location of stairs on floor 2. |
| STHREE | Location of stairs on floor 3. |
| HW | Location of healing well. |
| FP | Location of fire pit. |
| FLOOR | Floor level you are on. |
| LOCATION | Your position in the dungeon. |
| STRENGTH | The amount of power you have. |
| WOUNDS | The amount of wounds you have. |
| HELD | The amount of treasure you have collected. Held can |

never be greater than 5.

if you have the stone.

if you have wizard's hand.

Equals zero if you don't have wizard's hand. Equals one

Equals zero if you don't have the stone (eye). Equals one

WFC

WX

BY

BX

PER Your percentage chance of killing the monster at your location. PER obtains its value from array V(x). SPELL The number of spells you have collected.

The combat mode you are in. Zero = not in combat. One = You are attacking Two = You are defending. Three = You are defending yourself against the Lich.

PX Player's X co-ordinate for printing player onto screen. PV Player's Y co-ordinate for printing player onto screen. The variables, PY,PX are also used to compare the

player's position with the position of objects held in X\$(y,x). Each move the player makes this value is increased by one

CM until SM is greater than eight at which time it is reset to zero and your strength is lowered by a set amount. WSC

Colour of weapon stored at your location. Obtains its value from W(x).

Colour of weapon found at your location. Obtains its value from W(x).

MC Colour of monster at your location. Obtains its value SY

Y co-ordinate of stored treasure at your location. SX X co-ordinate of stored treasure at your location. Co-ordinates SY.SX show the screen display position of

stored treasures and also their position in X\$(v.x). WY Y co-ordinate of weapon found at your location.

X co-ordinate of weapon found at your location. Co-ordinates WY.WX show the screen display position of weapons found at your location and also their position in X\$(v.x).

Y co-ordinate of buried treasure at your location. X co-ordinate of buried treasure at your location. Co-ordinates BY.BX show the position of buried treasure on the screen display and in X\$(v.x). MY Y co-ordinate of monster at your location. MX X co-ordinate of monster at your location

Holds your input to the computer. R\$(x) Marker to tell the computer how many characters are in

COL Colour of object on the same v.x co-ordinates as player during move player routine.

Check to see if you have the treasure you wish to use during combat. TRE equals zero if you don't carry that

treasure. TRF equals one if you carry the treasure. The value of the weapon you are using during the combat. routine

V co-ordinate for testing player's new position during move player routine. X co-ordinate for testing player's new position during move player routine.

TY and TX are also used for testing monster's new position during Monster Moving routine. Variable for returning the computer to GOSUBS.

RET RET-1 then return to GOSUB. then carry on.

PET-0

TY

TX

TRE

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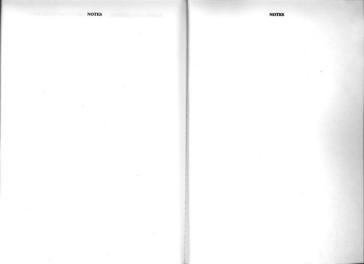
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Adventuring! You and your trusty computer alone in a dark cave, or deep in the dungeons of a terrifying castle. Alone, that is, except for... What's that? The drip of water on stone, or the approaching footsteps of a minotaur, jaws slavering for your blood?

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Tony Bridge is Popular Computing Weekly's regular Adventure columnist. In his other life he sits in a dark underground cavern, making records for most of today's major recording artists.

Roy Carnell founded Carnell Software, a successful company specialising-in Adventuring programs. Before that he designed special effects for Star Wars, Superman and many other major films. He is the author of the highly acclaimed Volcanic Dungeon and Black Crystal.



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