COMPUTER SPY GAMES

FOR ... COMMODORE 64 ... VIC 20 ... APPLE ... 

TRS 80 32K ... BBC ... ELECTRON ... SPECTRUM ...
COMPUTER
SPY GAMES

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About this book

The programs in this book are written in a standard version of BASIC and there are conversion lines to type in for most of the main types of home computers. Look down the left-hand side of the program for the symbol for your computer and then look at the list of changes for the correct version of that line. The symbols for the various computers are as follows:

- Commodore 64 and VIC 20
- BBC and Electron
- Spectrum
- Apple
- TRS-80 (extended BASIC version)

About the games

The games in this book are very simple. They are intended to help you get used to your computer and to the BASIC language by typing in listings, debugging them and seeing how they work. The programs do not contain graphics or sound as these vary so much from computer to computer, but you can try adding these.

You can change and adapt the games as much as you like. There are suggestions for ways of doing this next to each program and you can experiment with your own ideas as well. This way you can use the games in this book as a basis for longer, more complicated games of your own.

Typing and running the programs

Remember, even short programs can be quite difficult and time-consuming to type in correctly. Check each line as you go. It is so easy to make mistakes, even if you are quite experienced. When you have typed in the whole listing, check it again, making sure you haven’t missed any lines, spaces or punctuation.

To start the game, type RUN. Read the introduction to the game first so that you have some idea of what you are supposed to do before you start. If the program doesn’t work properly, it is quite likely that there is a mistake in it somewhere, so LIST the program and check again.

When the game is over, the computer may ask if you want to play again or say something like BREAK in 200, in which case you must type RUN to play again.

Changing the speed

Some games depend on the speed of both your reactions and your computer. You may find you need to adjust the speed. You will find instructions for doing this next to the program listing.
Spy Eyes

If you think you're a good spy, try this.

The computer will print the numbers 1 to 9 on your screen. Watch them like a hawk while you press a key (any one will do). One of them moves, but which? When you think you know, press a key again and tell the computer. Bet your powers of observation aren't as good as you thought.

How the program works

10 DIM X(9):DIM Y(9)
20 LET P=0
30 FOR I=1 TO 9
40 GOSUB 340:LET X(I)=N+3
50 GOSUB 340:LET Y(I)=N+3
60 NEXT I
70 GOSUB 360
80 GOSUB 310
90 GOSUB 340
100 LET M=N:GOSUB 340
110 LET X(M)=X(M)+SGN(N-5,1)
120 GOSUB 360
130 GOSUB 310

▲ 140 CLS:PRINT
150 PRINT "WHICH NUMBER MOVED"
160 INPUT A
170 IF A="M" THEN GOTO 250

▲ 180 CLS:PRINT
190 PRINT "WELL SPIED!";
200 LET P=P+1
210 PRINT "YOU NOW HAVE ";P; " POINTS"
220 PRINT PRINT "PRESS A KEY"
230 GOSUB 360
240 GOTO 30

▲ 250 CLS:PRINT:PRINT "WRONG - END OF GO"
260 PRINT "CORRECT ANSWER WAS ";M
270 PRINT "YOU SCORED ";P; " POINTS"
280 PRINT "ANOTHER GO? (Y/N)"
290 INPUT A$:IF A$="Y" THEN RUN
300 STOP

▲ 310 LET I$=INKEY$;
320 IF I$="" THEN GOTO 310
330 RETURN

▲ 340 LET N=INT(RND(1)*9)+1
350 RETURN

▲ 360 CLS
370 FOR I=1 TO 9
380 PRINT TAB(X(I),Y(I);STR$(I))
390 NEXT I
400 RETURN

See if you can work out a high-score routine for this game.

Conversion lines

▲ 140,150,250,360 Replace CLS with HOME
▲ 140,150,250,360 Replace CLS with PRINT CHR$(147)
▲ 310 LET I$=INKEY$(I)
▲ 310 I$="":IF PEEK(16384)+127 THEN SET I$
▲ 310 LET I$=
▲ 340 Replace RND(1) with RND
▲ 340 LET N=RND(9)
▲ 340 PRINT AT Y(I),X(I);STR$(I)
▲ 350 PRINT X(I);HTAB(I);PRINT STR$(I)
▲ 350 PRINT CHR$(19);FOR ALL I TO Y(I);PRINT:NEXT;
▲ 350 PRINT Y(I);X(I);STR$(I)
▲ 360 PRINT Y(I);X(I);STR$(I)
A mission most secret and desperately dangerous must be undertaken this very night—by you.

You must cross a closely watched section of enemy territory and return, avoiding their gigantic and very powerful searchlight. There are rocks, bushes and other obstacles to hide behind, but there are no second chances—once they’ve seen you, you’ve had it. When you have completed one mission successfully, there is another, even more difficult, to undertake. Keep going, we are all depending on your success.

Use key M to move right and N to move left. To complete one mission you must go right across from left to right and back again.

10 GOSUB 450
20 LET A=1: LET G=0: LET S=0

30 CLS
40 LET X=0: LET Y=12: LET B$=A$(A)
50 GOSUB 390
60 LET F=0: LET N=0: LET NN=0: GOSUB 340
70 LET L=0: LET C=0: LET TC=10: LET CI=0

80 LET I$=INKEY$
90 IF I$="N" THEN LET NN=NN+1
100 IF I$="M" THEN LET NN=NN+1
110 IF NN>19 THEN LET NN=19
120 IF NN<0 THEN LET NN=0
130 IF NN=19 AND F=0 THEN LET F=1
140 IF NN=0 AND F=1 THEN LET F=2
150 GOSUB 340
160 IF N>NN THEN LET S=S+1
170 LET N=NN: LET G=G+1
180 GOSUB 400
190 IF MID$(A$(A),N+1,1)="" AND L=1 THEN GOTO 240
200 FOR T=1 TO 50: NEXT T
210 IF F<2 THEN GOTO 80

How the program works

10: Goes to subroutine which reads in data.
20: Sets up variables.
30: Prepare screen.
40-60: Print obstacles.
60-70: N is player’s position. NN is new position.
80: Looks for key press.
90: If key press is N (left), new position is N minus 1. If it is M (right), new position is N plus 1.
100-120: Stop player moving off ends.
130-140: F is set to 1 when player reaches right-hand side and 2 when left-hand side is reached again.
150: Goes to subroutine to move player.
160: IF player has moved, S is increased.
170: Lets player position equal new position and increases G by 1. G acts as a timer, increasing all the time whether or not the player moves.
180: Goes to subroutine which turns light on and off.
190: Checks if player is below a space when the light is on and if so goes to losing message.
200: Pause
210: If player hasn’t returned to left-hand side, then goes back to look for another key press.

Perhaps you could replace the obstacles, shown in this listing as =, with graphics symbols to represent trees, rocks, buildings or anything else you like.
220 LET A=A+1:IF A=8 THEN LET A=7
230 GOTO 30
240 LET X=4:LET Y=1:LET B$="YOU HAVE BEEN SEEN"
250 GOSUB 380:PRINT
260 PRINT "YOU SCORED ";INT((A-1+S/G)*100)
270 PRINT:"ANOTHER GO? (Y/N)"
280 INPUT C$:IF C$="Y" THEN RUN
290 PRINT "BYE.... ";:STOP
300 LET Y=3:LET X=10:LET B$="*"
310 GOSUB 380:RETURN
320 LET X=10:LET Y=3:LET B$=" "
330 GOSUB 380:RETURN
340 LET X=4:LET Y=13:LET B$=" "
350 GOSUB 380
360 LET X=N:LET B$="*"
370 GOSUB 380:RETURN
380 PRINT TAB(X,Y);B$
390 RETURN
400 IF L=1 THEN LET C=C+1
410 IF C=TC THEN LET L=0:LET C=0:LET TC=INT(RND(1)*B+(12-A)):GOSUB 320
420 IF L=0 THEN LET C=C+1
430 IF C=TC THEN LET L=1:LET C=0:LET TC=INT(RND(1)*10+(B-A)):GOSUB 300
440 RETURN
450 DIM A$(7)
460 FOR I=1 TO 7:READ A$(I):NEXT I
470 RETURN
480 DATA "== == == == == == == ==
490 DATA "== == == == == == == ==
500 DATA "== == == == == == == ==
510 DATA "== == == == == == == ==
520 DATA "== == == == == == == ==
530 DATA "== == == == == == == ==
540 DATA "== == == == == == == ==

Add an alarm sound for when player is seen.

You could make the game easier by giving the player a second chance. Can you think how to do this?

You can change the positions of the obstacles by changing the data lines.

Conversion lines

- HOME
- PRINT CHR$(147)
- LET I=INKEY$(0)
- GET I$ 
- IF I$="Q" THEN GOTO 127 THEN GET I$
- IF A$(A,N+1)="*" AND L=1 THEN GOTO 240
- PRINT Y,X,B$
- PRINT HTAB(I+1):PRINT B$
- PRINT CHR$(19):FOR L=1 TO Y:PRINT;NEXT:PRINT TAB(I);B$
- PRINT Y+32+X,B$
- Replace RND(1) with RND
- Replace RND(1) with RND(1)
- DIM A$(7,20)
- Speed is controlled by line 200
  For BBC and Electron change to FOR T=1 TO 150*NEXT T
You are in control of Robospy - a unique remote-operation tracking device which secretly follows enemy agents. You receive details of an agent's movements through the streets - whether he turns left or right - and you must copy these movements exactly when you send signals to Robospy, so that it can stay in touch with the agent.

Unfortunately the agent knows that Robospy is following him. He makes your job harder the longer it keeps up. He has also managed to tamper with your signalling device, re-arranging the keys in an attempt to confuse you. This means that you press L (for left) with your right hand and R (for right) with your left. Can you stick with him, or will he shake you off?
How it works

30-40: Set up variables. L is number of words printed on screen. K counts how many times L words have been printed.

60-80: Print message and wait for key press to start.

90: Clears screen and leaves 2 empty lines.

100: If K is 5, value of L is increased by 1 and K set to zero.

110-120: Set up two empty string variables.

130-170: Loop round L times choosing sequence of lefts and rights randomly, print them and store them in M$.

180: Increases K by 1.

190-210: Pause for player to see words. Gets longer for more words.

230: Error flag - will be set to 1 if player makes a mistake.

250: Starts loop to get and check answers.

260-270: Print prompt, get a key press and put it in C$.

280: If key press not L or R, goes back for another.

300: Checks if letter in C$ matches appropriate letter in M$ and sets error flag if not.

320: Adds to score if no error.

330: Sets new high score if necessary.

340: Prints message if error made.

350-360: Prints scores.

370: Goes back for new game.

380-390: Pause to see score.

400: Goes back for next go.

Convension lines

• 20,90,220 Replace CLS with HOME
• 20,90,220 Replace CLS with PRINT CHR$(147)
• 70,200,270 LET C$=INKEY$(0)
• 70,200,270 C$="":IF PEEK(-16384)>127 THEN GET C$
• 70,200,270 GET C$
• 140 LET N=RND
• 300 IF C$<M$(T) THEN LET E=1

Line 10 controls the speed of the game. Change this number as follows:
Spectrum 0.2, VIC 20 0.4,
Electron 0.6, BBC 1,
Apple 0.1. Whichever computer you are using, the lower the number; the faster the game. Try speeding it up and see how good you are.
SpyQ Test

As a new recruit at Spy School, you've a lot of Spy Q tests to pass if you are to move up through the Grades. You start as lowest of the low — a Grade 5 Trainee Spy. Your goal is to reach the top and become a Grade 1 VIS* and even achieve the ultimate accolade: the Super Spy Award.

In each Spy Q Test, you are given ten positions on your computer screen. You are then given numbers between 1 and 100. Your aim is to put these numbers in order into the ten positions, with the lowest in position 1 and the highest in 10.

You are allowed to discard some numbers if they won't fit by pressing D. The number of numbers you are allowed to discard is the same as the number of your grade.

How the program works

10: Sets aside storage space for arrays.
20: Clears screen.
30: Goes to subroutine which reads data to put in array N$. ()
40: Sets $S$ to empty string.
50: Sets grade to 5 for start.
60: G is number of discards used.
70: Puts zeros in all 10 positions for start.
80: Counts numbers player has positioned.
90: Goes to subroutine which prints your status, the numbers 1 to 10 and any numbers already in those positions.
100: Chooses a number between 1 and 100.
110-120: Print number and find out where you want to put it.
130-140: Check if you pressed D and then whether or not you are allowed to discard.
150: Works out numerical value of your input.
160: Rejects if not between 1 and 10.

*Very important Spy

Can you change the number of positions from 10 to 15?

Change the titles if you like.

Are you Super Spy material?
170 IF N(P)>0 THEN PRINT "ALREADY FULL"; GOTO 120
180 LET N(P)=M
190 LET F=0
200 FOR L=P TO 10
210 IF N(L)<M AND N(L)<>0 THEN LET F=1
220 NEXT L
230 FOR L=1 TO P
240 IF N(L)>M AND N(L)<>0 THEN LET F=1
250 NEXT L
260 IF F=1 THEN GOTO 360
270 LET J=I+1: IF J<11 THEN GOTO 90
280 LET D=D-1: IF D=0 THEN GOTO 330
290 PRINT "WELL DONE, GO TO GRADE "; D
300 PRINT:PRINT "YOU ARE NOW A "; N$(D)
310 LET W$=""
320 GOTO 400
330 PRINT "TERRIFIC - YOU HAVE REACHED"
340 PRINT "THE GRADE OF SUPER SPY"
350 STOP
360 PRINT "WRONG! NOT GOOD ENOUGH"
370 PRINT:PRINT "YOU ARE STILL A ";
380 PRINT N$(D)
390 LET W$="STILL"
400 PRINT:PRINT "DO YOU WANT TO TRY AGAIN? (Y/N)"
410 INPUT A$: IF A$="Y" THEN GOTO 60
420 STOP
430 CLS
440 PRINT:PRINT "YOU ARE "; W$; " A "; N$(D)
450 PRINT
460 FOR J=1 TO 10
470 PRINT J;
480 IF N(J)>0 THEN PRINT N(J);
490 PRINT: NEXT J
500 RETURN
510 FOR I=1 TO 5: READ N$(I)
520 NEXT I
530 RETURN
540 DATA "VIS","SPY","JUNIOR SPY"
550 DATA "SPYING ASSISTANT","TRAINEE SPY"

170: Rejects if position already used.
180: Puts number in position you wanted.
190-220: Check all the positions above the one you said to see if there is a lower number already in one of them. Set F to 1 if there is.
230-250: Check positions below and set F to 1 if there is a higher number already in one of them.
260: If position is wrong, goes down program to tell you so.
270: Increases counter and goes back for another number.
280-300: Change D to next grade and print message. (Goes to Super Spy if D is 0.)
310: Sets W$ to empty string.
320: Goes to "try again" message.
360-380: Print losing message.
390: Sets W$ to "still".
400-420: Find out if you want to try again, if not stop game.
430-500: Subroutine which prints message and numbers.
510-530: Subroutine which reads names of grades into array NS.
540-550: Data.

Conversion lines
DIM N(10): DIM N$(5,16)
20,430 Replace CLS with HOME
20,430 Replace CLS with PRINT CHR$(147)
100 LET M=INT(RND*99+1)
100 LET M=RND(99)
Secret Message Maker

Use this program to send coded messages to your friends. They'll need a computer to decode them, but not necessarily the same type as yours. (They'll need a copy of the program too, don't forget.) They can decode your messages and then send coded messages back to you.

You could set up a Spy Network among your computer-owning friends.

```
10 CLS: PRINT: PRINT "SECRET MESSAGE MAKER"
20 PRINT "=================
30 PRINT: PRINT "DO YOU WANT TO:" 40 PRINT
50 PRINT " 1. CODE A MESSAGE"
60 PRINT "OR 2. DECODE A MESSAGE"
70 PRINT: PRINT
80 PRINT "ENTER NUMBER": INPUT A
90 IF A=1 THEN GOSUB 120
100 IF A=2 THEN GOSUB 210
110 GOTO 30
120 LET C$="CODED": GOSUB 400
130 LET X=INT(RND$(1)*25+1)
140 LET M$="ABCDEFGHIJKLMNOPQRSTUVWXYZ"
150 GOSUB 310: GOSUB 420
160 LET M$=CHR$(X)+M$
170 IF LEN(M$)/2=INT(LEN(M$)/2) THEN GOSUB 450
180 PRINT "THE CODED MESSAGE IS:"
190 PRINT M$
200 RETURN
210 LET C$="DECODED": GOSUB 400
220 IF LEN(M$)/2=INT(LEN(M$)/2) THEN GOSUB 450
230 LET X=LEFT$(M$,1)
240 LET M$=RIGHT$(M$,LEN(M$)-1)
250 LET X=ASC$(X)-64
260 LET X=X: GOSUB 420
```

How the program works

10-80: Print "menu" and ask whether coding or decoding is required.
90-100: Go to relevant subroutine.
110: Goes back to menu again.
120: Coding subroutine
120: Goes to subroutine to ask for message.
130: Chooses amount to shift letters and stores it in X.
140: Adds a letter in case first word is only one character.
150: Goes to subroutines to shift messages X letters along alphabet and then reverse them.
160: Adds letter to message to tell decoder subroutine what the value of X is.
170: Checks if message has even number of characters. If so, goes to subroutine to swap letters in each pair.
210-300: Decoding subroutine
210: Goes to subroutine to ask for message.
220: If message contains an even number of letters then swap them round.
230-240: Take off first letter. (This is the one added at line 160 to show amount of shift.)
250: Works out the value of X.
260: Changes direction of shift and goes to subroutine which reverses letters.
Good spies usually test that their messages decode properly before they send them.

Conversion lines

- **10** Replace CLS with HOME
- **10** Replace CLS with PRINT CHR$(147)
- **130** LET $= INT(RND($25)+1
- **230** LET K=$$(1
- **240** LET $=($2 TO

(2 spaces)
VYKNDFK IN SQRDNSD
SGKDKES

EJXZTMDR YF FYTY
JRTHK

BVJIKPVQG VGGOH

Can you work out what they are saying?
Rendezvous

Your mission is a complicated one, so read these instructions carefully.

You must collect a case from a locker at the station, hand it over to your contact and get back to the airport before the last plane takes off (your computer will tell you what time this is).

Your computer will tell you where your contact will be at what time. You must leave a message at that place, before he gets there, telling him where and when you will meet him to hand over the case.

You must find out the password before you meet him, and make sure you are not more than 15 minutes late.

Before you can get the case, you must find the key to the locker and also its number. Unfortunately the key is in the hands of enemy agents, whose HQ is at the Hotel. You must find an enemy spy and follow him, hoping he will be careless enough to drop the key (and of course that he won't see you).

The map shows you the places you can go to and the list below shows the words you can use in the game.

Words you can use

TIME – Tells you what time it is.
MOVE – Asks you where to. You can go anywhere marked on the map.
SAY – The password.
EXAMINE – Anything. (Examine the key to get the number.)
READ – A message.
OPEN – The locker.

FOLLOW – An enemy spy.
WAIT – For any length of time.
LEAVE – A message.
SEARCH – Anywhere (to find the key).
HELP – Reminds you of time and place of meeting.

You can also use any of the names in capital letters on the map.

Change the passwords to anything you like.
You can change the names of the places too if you want to.
How the program works

10: Sets up a function to choose random number between 1 and X.

20: Go to end of program to read in data and set game (initialize).


60: BS is for computer's messages to player.

90: Increases NM (number of moves).

140: NE counts how long player is in same place as enemy agent.

180: Works out the time (H = hours, M = minutes)
190 IF F(4)=1 AND R(K)=B$ AND U=71 AND U+.15TI THEN PRINT TS:LET F(3)=1
200 IF P=1 AND H$QP AND F(7)=1 THEN GOTO 890
210 PRINT:PRINT:PRINT "WHAT NEXT"
220 LET B$=""'
230 INPUT IS
240 LET V=0:FOR I=1 TO 11
250 IF I$=V(I) THEN LET V=I
260 NEXT I
270 IF T=0 THEN LET V=12
280 IF NE=3 AND FNA(10)<>3 AND V<>1 THEN LET B$="ENEMY AGENT SEE YOU!":GOTO 70
290 IF NE=4 THEN PRINT "YOU ARE CAPTURED!":STOP
300 DN V GOSUB 360,420,490,540,640,710,730,780,810,820,870
310 LET M=M+DT1:IF M=59 THEN LET M=60:LET H$="1"
320 IF F(2)=1 AND H$="C" THEN LET F(4)=1
330 IF H$="F" THEN GOTO 880
340 IF FNA(10)=9 THEN LET EP=10
350 GOTO 70
360 PRINT:PRINT "WHERE TO?":INPUT N$
370 LET NP=0:FOR I=1 TO 20
380 IF N$=R(I) THEN LET NP=I
390 NEXT I:IF NP=0 THEN GOTO 360
400 GOSUB 950
410 LET P=NP:RETURN
420 LET DT=5
430 PRINT:PRINT "SAY WHAT":INPUT OP
440 IF EP<>P THEN LET B$="YOU ATTRACTED THE ENEMY AGENT!":RETURN
450 IF F(3)=0 THEN LET B$="NOBODY HEARS YOU!":RETURN
460 IF OP<>P THEN LET B$="CONTACT IGNORES YOU!":RETURN
470 IF F(4)=1 THEN LET B$="YOU MADE CONTACT - HE TAKES THE CASE!"
480 LET F(7)=1:RETURN
490 LET DT=5
500 PRINT:PRINT "WHAT DO YOU WANT TO EXAMINE?":INPUT D$
510 IF B$="CASE" THEN LET B$="TOP SECRET!":RETURN
520 IF B$="KEY" THEN LET B$="A NUMBER - *STR*N":RETURN
530 IF B$="NOTHING SPECIAL!":RETURN
540 IF P<>NP OR D<>1 THEN LET B$="NOTHING TO READ!":RETURN
550 LET B$="A WORD - *PS":RETURN
560 LET F(11)=1:RETURN
570 LET DT=5
580 IF P<>13 THEN LET B$="NOTHING TO OPEN":RETURN
590 IF F(5)=0 THEN LET B$="YOU HAVE NO KEY":RETURN
600 PRINT:PRINT "WHAT NUMBER LOCKER":INPUT YN
610 IF NL$=YN THEN LET B$="THE KEY DOES NOT FIT":RETURN
620 LET B$="LOCKER IS OPEN - YOU HAVE THE CASE!":LET F(6)=1
630 RETURN
640 LET DT=5
650 IF EP<>P THEN LET B$="FOLLOW WHO?":RETURN
660 LET NP=FN(120):GOSUB 950:LET P=NP
670 IF FNA(10)=0 THEN LET P=XP
680 IF FNA(10)=9 THEN LET B$="YOU CUT HIM AFTER A WHILE":RETURN
690 LET EP=P
700 LET B$="YOU KNEW HIM IN SIGHT":RETURN
710 PRINT:PRINT "HOW MANY MINUTES":INPUT DT
720 RETURN
730 PRINT:PRINT "WHERE DO YOU WANT TO MEET":INPUT S$
740 PRINT:PRINT "WHAT TIME (HH.MM)"
750 INPUT U
760 IF P=CP AND TICU AND H$QP THEN LET F(2)=1
770 LET DT=5:RETURN
780 LET B$="NOTHING HERE":LET DT=10
790 IF P=KP THEN LET B$="YOU FOUND A KEY":LET F(5)=1
800 RETURN
810 LET DT=0:LET B$="TIME IS NOW "*:STR*(H):".":STR*(M):RETURN
820 LET DT=5
830 IF U=0 THEN GOTO 860

190-200: Work out if mission has been completed.
210-270: Get word from player and check for match with words in memory. V is number of matching word.
280-290: Check value of NE to see if seen by enemy.
300: Branches to subroutine depending on word entered.
310: Increases time.
330: Checks if player has run out of time.
340: Moves enemy back to hotel.
360-410: MOVE SUBROUTINE
420-490: SAY SUBROUTINE
500-540: EXAMINE SUBROUTINE
550-570: READ SUBROUTINE
580-640: OPEN SUBROUTINE
650-700: FOLLOW SUBROUTINE
710-720: WAIT SUBROUTINE
730-770: LEAVE SUBROUTINE
780-800: SEARCH SUBROUTINE
810: TIME SUBROUTINE
820-860: HELP SUBROUTINE
870: "Word not recognized" SUBROUTINE.
880: "Run out of time" message.
890-940: Print message and score for successful mission. Rating depends on number of moves made and time left.
950-1000: Subroutine which works out distance moved and time taken by player's move.
1010-1050: Subroutine which reads in data.
1060-1120: Data lines.
1130: Chooses starting time.
1140: Chooses time of last flight.
1150: Chooses time for contact to collect message.
1180-1190: Choose positions for message, key, enemy and where contact will collect.
1200-1210: Choose password.
1220: Choose locker number.
1230-1230: Print introduction to game.

Conversion lines

Conversion lines

Lines 1010-1320 are called the "initialization" section of the program.

See if you can work through each subroutine finding out what all the lines do.

The variables F(number) are "flags". F(5), for instance, = 1 if you have the key and 0 if you don't. See if you can find the other flags and work out what they are for.
If you want to be a really successful spy, you need to know how to send, receive, and, of course, intercept messages in Morse Code. This program will help you learn. If you have never used Morse Code before, you will need to make yourself a chart of letters and their Morse equivalents. Use lines 400-450 of the program to do this. They show the Morse code for each letter of the alphabet in order.

What you have to do
In Morse Code, each letter is represented by a series of long and short sounds or flashes. This program uses a flashing star. It will give you the code for a letter and then ask you which it was. You will have to watch carefully to pick out the long and short flashes and remember them. You will see the cursor flashing too at the left of the screen. Ignore this it has nothing to do with the code.

How it works
10: Goes to subroutine to read in data.
30: Sets speed.
50-80: Ask for level you want and work out speed of flashes depending on what you say.
110: Pause
120: Goes to subroutine which chooses random letter and stores it in QS.
130: Finds the dots and dashes code for the letter and puts them in FS.
140: Goes to subroutines which print flashing star.
150-170: Get answer from you.
180-190: Check if answer is correct or not and print message.
200-210: Pause then go back for next letter.
220-250: Check through length of FS setting K to 1 for dots and 3 for dashes. (K sets how long the star stays on the screen each time.)
260-270: Go to subroutine to print star. Come back, set K to 1, then go back to subroutine at line 340 to "print" a space. This gives the gap between the dots and dashes.
280: Goes back for next dot or dash.
310-320: Subroutine to choose a random letter.
330: Turns star on.
340: Waits for length of time depending on K.
350: Prints space instead of star.
370-390: Subroutine which reads in data.
400-450: Data lines.
Answers to puzzles

Here are answers to some of the puzzles set in this book. Your answers may be different, but if they work this doesn’t matter. Check they are as neat and simple as the ones given here though.

Spy Eyes
Here is how to add a high score routine.

15 LET H=0
215 PRINT "HIGH SCORE = "; H
225 IF P>H THEN LET H=P; PRINT "THAT IS THE HIGH SCORE"
290 INPUT A$; IF A$="Y" THEN GOTO 20

Searchlight
This is how to make the light stay on longer...

430 IF C1=TC THEN LET L=1; LET C1=0; LET TC=100+(6-A)+10; GOSUB 300

... and this is how to give the player a second chance.

15 LET NG=0
255 LET NG=NG+1
257 IF NG/2 THEN FOR T=1 TO 200; NEXT T; GOTO 30

Robospy
These lines will make the computer ask for the player’s name when a new high score is reached.

25 LET H$="NOBODY"
330 Take out this line
365 IF E=1 AND S>H THEN LET H=S; GOSUB 410
410 PRINT "THAT IS THE HIGH SCORE!"
420 PRINT "PLEASE TYPE YOUR NAME"
430 INPUT H$; RETURN

Spy Q Test
Here is how to change the number of positions from 10 to 15.

10 DIM N(15); DIM N$(15)
70, 160, 200, 460 Change the 10 in these lines to 15