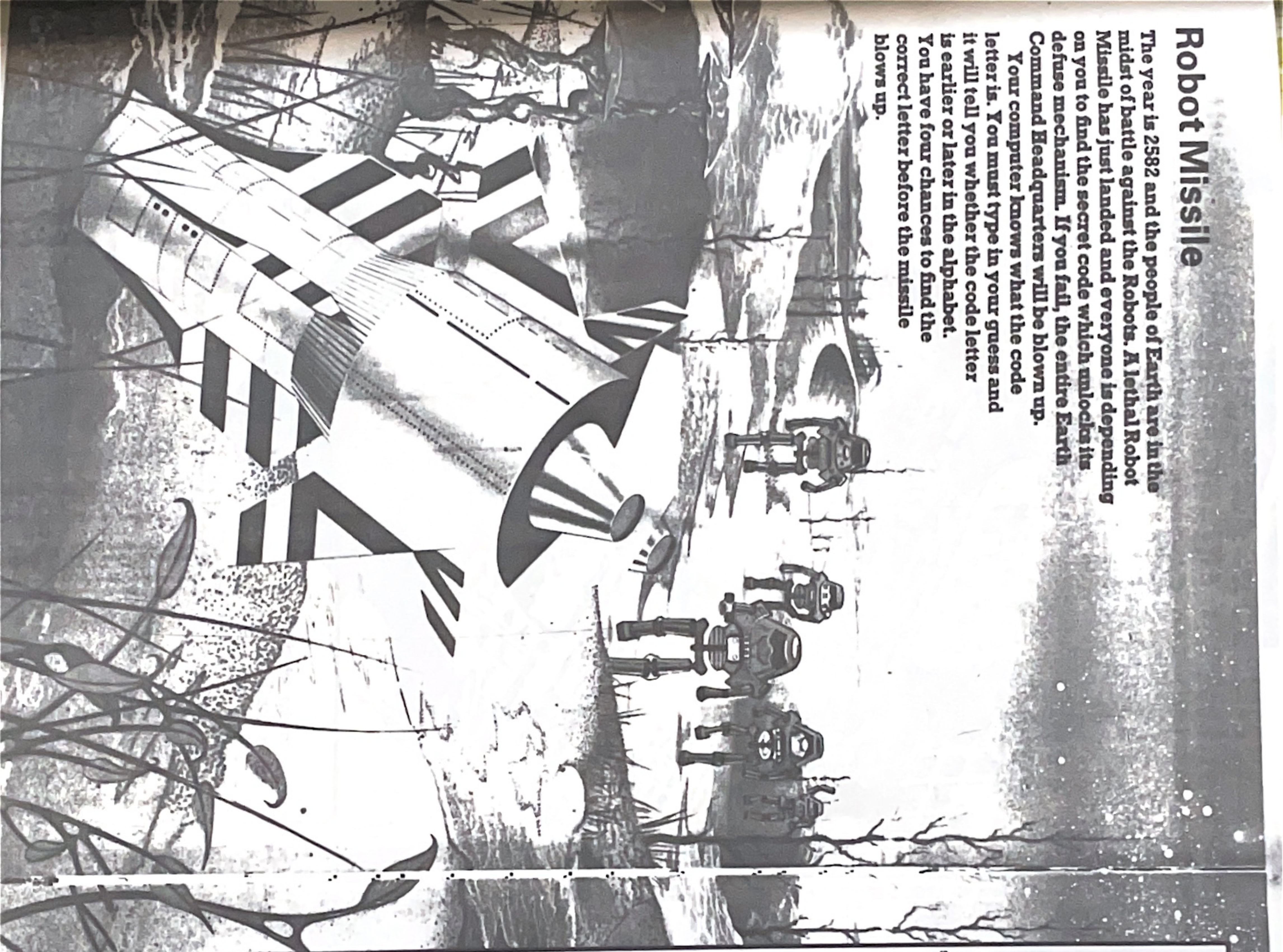


# Robot Missile

The year is 2582 and the people of Earth are in the midst of battle against the Robots. A lethal Robot Missile has just landed and everyone is depending on you to find the secret code which unlocks its defuse mechanism. If you fail, the entire Earth Command Headquarters will be blown up.

Your computer knows what the code letter is. You must type in your guess and it will tell you whether the code letter is earlier or later in the alphabet. You have four chances to find the correct letter before the missile blows up.



## How the program works

These lines print the title and instructions.



```

10 PRINT "ROBOT MISSILE"
20 PRINT
30 PRINT "TYPE THE CORRECT CODE"
40 PRINT "LETTER (A-Z) TO"
50 PRINT "DEFUSE THE MISSILE."
60 PRINT "YOU HAVE 4 CHANCES"
70 PRINT
    
```

This selects a number between 0 and 26, converts it to a letter (the "secret code") and puts it in C\$.



Line 90 begins a loop which makes lines 100-140 repeat 4 times.

```

90 FOR G=1 TO 4
100 INPUT G$
110 IF G$=C$ THEN GOTO 210
    
```

Checks if your letter is the same as the "secret code" in C\$. If so computer jumps to 210.

```

120 IF G$<C$ THEN PRINT "LATER";
130 IF G$>C$ THEN PRINT "EARLIER";
140 PRINT " THAN ";G$
    
```

Checks if secret code letter is earlier or later in the alphabet than yours and prints an appropriate message.



```

150 NEXT G
160 PRINT
170 PRINT "BOOOOOOOOOOMMM..."
180 PRINT "YOU BLEW IT."
190 PRINT "THE CORRECT CODE WAS ";C$
200 STOP
210 PRINT "TICK...FZZZZ...CLICK..."
220 PRINT "YOU DID IT"
230 STOP
    
```

End of loop. Goes back for next turn.

This prints if all your guesses were wrong.

The above listing will work on a ZX81. For other computers, make the changes below.

```

* A 80 LET C$=CHR$(64+INT(RND(1)*26+1))
  B 80 LET C$=CHR$(64+INT(RND(0)*26+1))
  S 80 LET C$=CHR$(64+INT(RND*26+1))
    
```

## Adding to the program

You can make the computer print an extra message for a correct guess on the last go. Change line 220 by adding a semicolon to it, like this:  
 220 PRINT "YOU DID IT";  
 and add a new line 230:  
 230 IF G=5 THEN PRINT "GUSTY"

## Puzzle corner

See if you can work out how to change the program to give you more or less chances of guessing the code letter.

