ProgBoard: Exercises One

For ProgBoard Version 1 – https://thinklikeacomputer.org/ - d.cutting@qub.ac.uk

Challenge One

1. Start in square D10 facing North
2. Move forward three squares
3. Turn right
4. Move forward two squares

Which square are you in?
What if anything is in that square?
Which way are you facing?

Challenge Two

1. Start in square D10 facing North
2. Move forward one square
3. If the square you're in:
    a. Is green – continue to step 4
    b. Is not green – repeat step 2
4. Turn left
5. Move forward two squares

Which square are you in?
What if anything is in that square?
Which way are you facing?

Challenge Three

1. Start in square E6 facing North
2. We start with a variable called Z – which has a value of 1
3. Move forward Z squares
4. Turn left
5. Move forward Z squares
6. Turn left
7. If the square you're in is a colour then add one to Z
8. If Z is more than 2 (3 or higher) then finish
9. Go to step 3

Which square are you in?
What if anything is in that square?
Which way are you facing?