

Programming in QBasic- Assessment Task

Part 1

Check out the flowchart and answer these questions.

1. How long do the lights stay Orange?
2. How long do the lights stay Red?
3. According to the flowchart, what happens if the Walk Button is NOT pressed?
4. How many times do the lights go through the Green-Orange-Red cycle?

Include your answers to these questions as REMarks in your program code.

Part 2

Write a program in QBasic to draw the following design...

Circles have centres at...

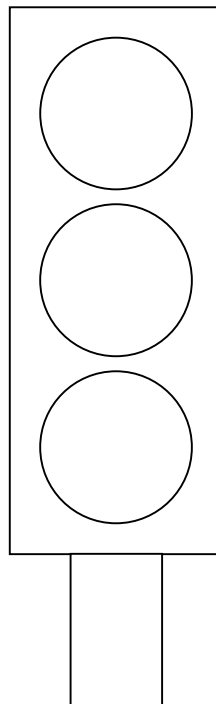
- (160,40)
- (160,80)
- (160,120)
- All radius 20

Main box has corners at...

- (130,10)
- (190,150)

Pole has corners at...

- (145,150)
- ((175,199)



Part 3

Colour your design using the following colours

- Main box and pole is Black. (0)
- Background is Light Blue (9)
- Top circle is Green (10)
- Middle circle is Orange (6)
- Lower circle is Red (4)

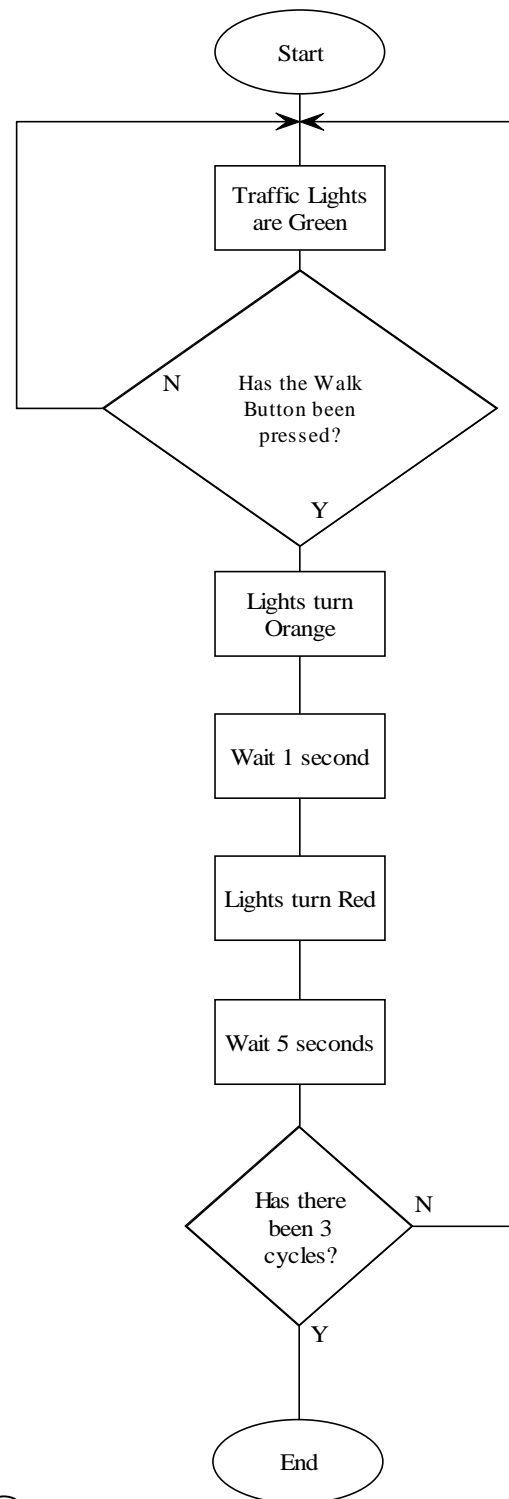
Part 4

Modify your program to make the lights behave according to the flowchart.

- Use a simple spacebar press to act as the Walk Button.
- Re-colour with black (0) to turn lights "off".

Part 5

- Remove the "Walk Button" from the algorithm.
- Modify the program so that the lights stay green for a random amount of time between 5 and 10 seconds before they change to Orange.
- Add simple sound effects to the program using PLAY.



Don't forget to include your name and class in the program code as REMarks.

Save a copy of your work in the Dropbox on Drive X: