

Fetch – Decode – Execute Cycle

Starting at position 16, follow the fetch the next instruction, decode what you must do and then execute the action required.

Each time you carry out an instruction, increase your counter by 1.

Main memory

Counter value	Action required
0	Rectangle
1	Circle
2	Square
3	Equilateral triangle
4	Two dots and a curved line to make a smiley face.
5	Spiral
6	Star
7	Two dots and a curved line to make a sad face.
8	Horizontal line
9	Cross
10	Tick
11	Vertical line
12	Flower
13	Draw a wiggly line boarder round the whole page
14	Draw a diagonal line from the top left corner of the page to the bottom right of the page
15	Draw a diagonal line from the top right corner of the page to the bottom left of the page
16	Draw a large version of the shape from memory location 2 in the middle of your paper.
17	Split the shape from memory location 2 in half vertically down the centre.
18	Draw another line that splits the shape from memory location 2 in half horizontally.
19	In the centre of the bottom left quarter draw a shape from memory location 3. The shape should fill most of the quarter.

20	In the top right hand quarter draw the shape from memory location 1. The shape should fill most of the quarter.
21	Add a black dot in the centre of the shape in the top right hand quarter.
22	In the bottom right hand quarter draw the large shape from memory location 10. The shape should fill most of the quarter.
23	In the top left hand quarter draw the shape from memory location 4. The shape should fill most of the quarter.