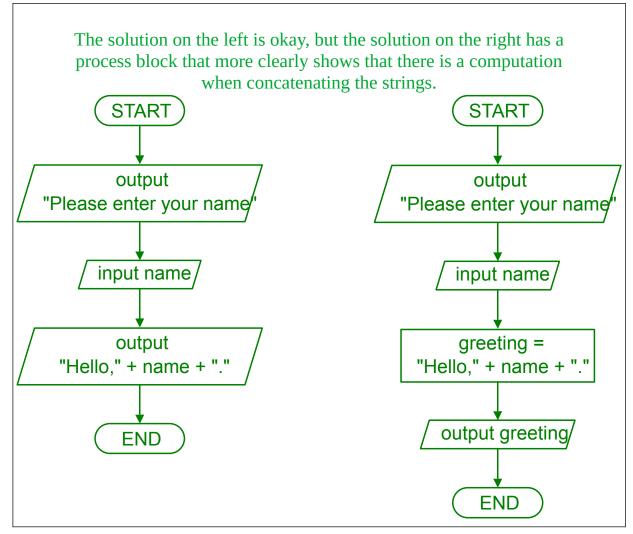
1a. Draw a *flowchart* that represents an algorithm that prompts a user to input their name, then greets them with a hello message including their name.



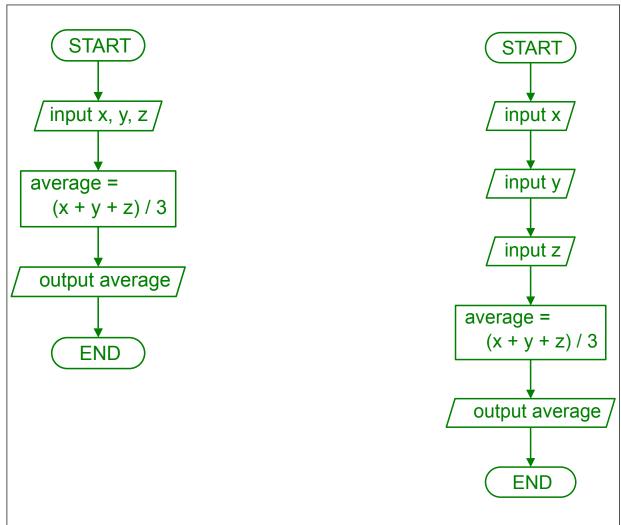
1b. Write the *pseudocode* for the flowchart above.

```
SEND 'Please enter your name' TO DISPLAY
RECEIVE name FROM KEYBOARD
SEND 'Hello,' + name + '.' TO DISPLAY

OR:

SEND 'Please enter your name' TO DISPLAY
RECEIVE name FROM KEYBOARD
SET greeting TO 'Hello,' + name + '.'
SEND greeting TO DISPLAY
```

2a. Draw a *flowchart* that represents an algorithm that takes three numbers as inputs (call them x, y, and z), and outputs the average of those three numbers.



2b. Write the *pseudocode* for the flowchart above.

```
RECEIVE x, y, z FROM KEYBOARD

SET average TO (x+y+z)/3

SEND average TO DISPLAY

OR

RECEIVE x FROM KEYBOARD

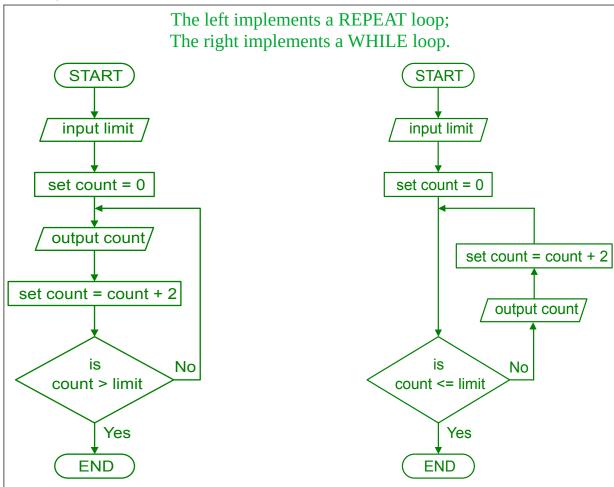
RECEIVE y FROM KEYBOARD

RECEIVE z FROM KEYBOARD

SET average TO (x+y+z)/3

SEND average TO DISPLAY
```

3a. Draw a *flowchart* that represents an algorithm that inputs an integer (call it limit) and outputs all <u>even</u> numbers between zero and limit. (You can assume limit is a whole number).



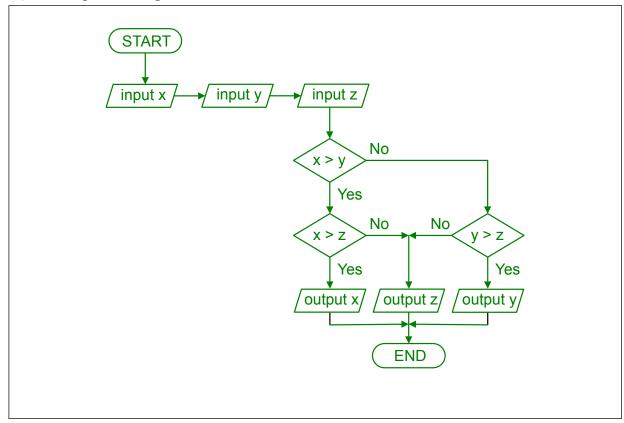
3b. Write the *pseudocode* for the flowchart above.

RECEIVE limit FROM KEYBOARD
SET count TO 0

REPEAT
SEND count TO DISPLAY
SET count TO count + 2
UNTIL count > limit

RECEIVE limit FROM KEYBOARD
SET count TO 0
WHILE count <= limit DO
SEND count to DISPLAY
SET count TO count + 2
END WHILE

4a. Draw a flowchart that represents an algorithm that inputs three numbers (call them x, y, and z), and outputs the largest of those three numbers.



4b. Write the pseudocode for the flowchart above.

```
RECEIVE x FROM KEYBOARD
RECEIVE y FROM KEYBOARD
RECEIVE z FROM KEYBOARD
IF x>y THEN
    IF x>z THEN
        SEND x TO DISPLAY
    ELSE
        SEND z TO DISPLAY
    END IF
ELSE
    IF y>z
        SEND y TO DISPLAY
    ELSE
        SEND z TO DISPLAY
    END IF
END IF
```