

School of Computer Science
INFO1110/9001 Quiz 1

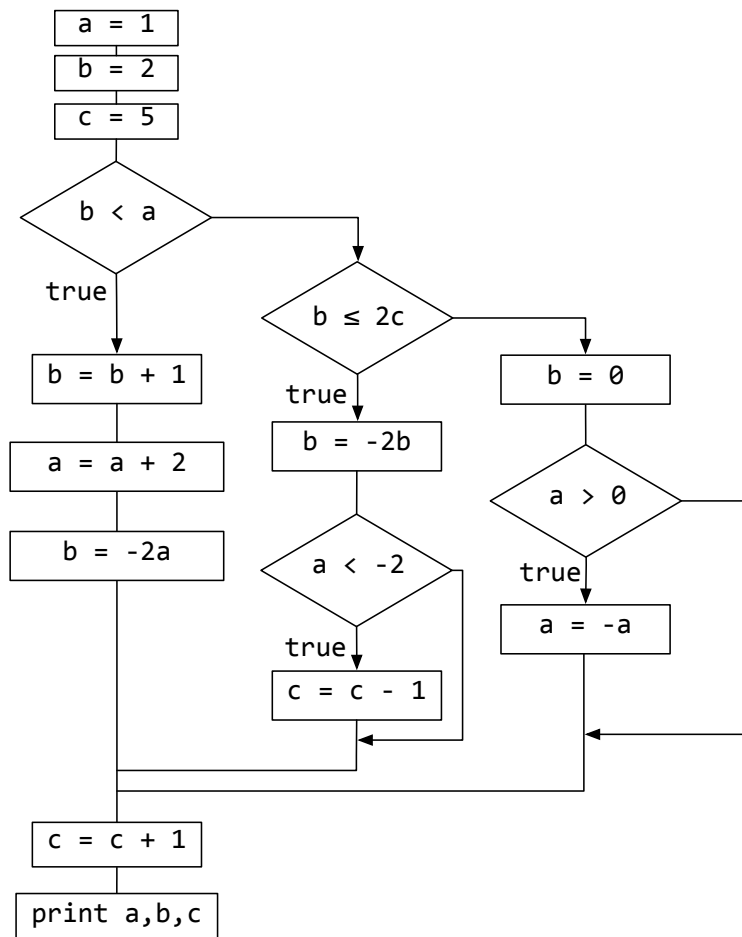
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Instructions:

This quiz is for revision and to complete in your own time
This quiz is optional and does not count toward your grade
Please complete without using a python interpreter
The contents of the quiz will be covered in week 5 seminar

Question 1 - 7 marks

- Perform a desk check on the following flowchart showing a new line for each change, and
- Convert the flowchart diagram to Python3 code.



Question 2 - 1 mark

What will be the value of `num` after this code executes?

```
1 num = 5.0
2 num = num + 5/2
```

Question 3 - 3 mark

Consider the Python3 code:

```
1 a = 10
2 b = 20
3 c = 6
4
5 x = (a < b) and (b > c and (c + 3) < a)
6 y = ((c > a) or (a > 7)) and ((not (b > 0)) or (b > a))
7 z = x and y
```

Evaluate the expressions for `x`, `y` and `z`:

Question 4 - 3 marks

Consider the code:

```
1 x = (9 + 1) * 2
2 y = 40 // 2
3 if x = y:
4     print("x equals y")
```

The program is run using

`python3 program.py`

It produces an error. Describe the error:

Fix the error in the code such that the program produces the output `x equals y`

Question 5 - 3 marks

What is the data type of each variable at each line of code? Write your answers in the given table

```
1 x = "5"
2 x = x + "1"
3 y = 10 % 3
4 z = y * 5.0
5 x = x == x
```

line	x	y	z
1			
2			
3			
4			
5			

Question 6 - 5 marks

Write a **while** loop to print out a sequence of N even numbers based on an input N . When the sequence is finished, print "**Sequence done**" Note: The sequence starts from 0.

Example:

Input

5

Output

0
2
4
6
8
Sequence done