

School of Computer Science
INFO1110/9001 Quiz 1

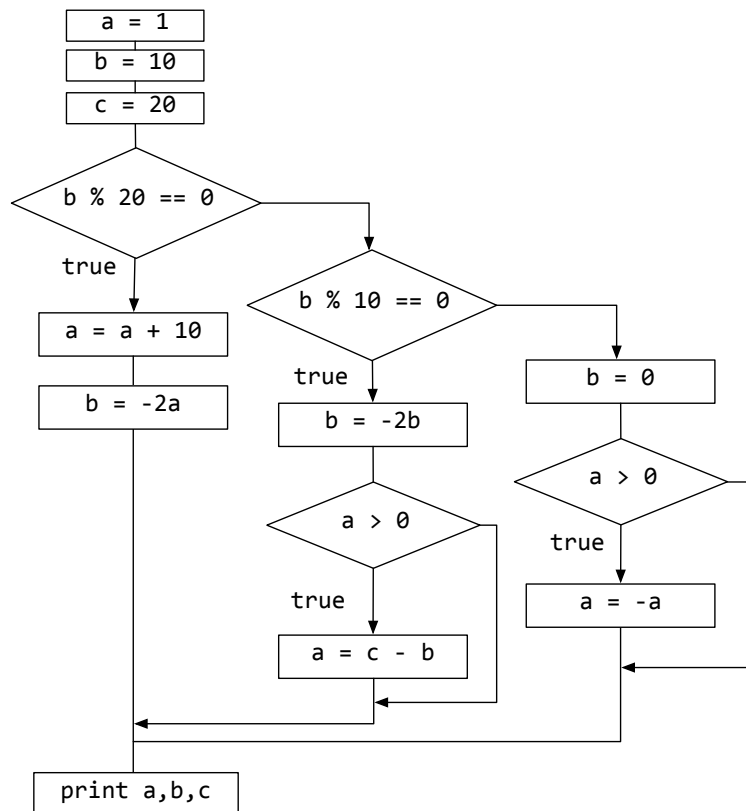
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Instructions:

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 `foo` after this code executes?

```
1 foo = 7
2 bar = 5
3 foo = foo + (foo % bar)
```

Question 3 - 3 mark

Consider the Python3 code:

```
1 a = True
2 b = False
3 c = a == b
4
5 x = (a and c) or b
6 y = (x == c) and a and (c or (a and not b))
7 z = (x != y) or b and c
```

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

Question 4 - 3 marks

Consider the code:

```
1 x = True and not False
2 y = False or not True
3 if x not equal y:
4     z = x and 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 executes the statement `z = x and 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 = int(1)
2 y = 5 // x
3 y = str(y)
4 z = str(x) + y
5 z = 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 odd numbers based on an input N . When the sequence is finished, print "Sequence done" Note: The sequence **does not** start from 0.

Example:

Input

5

Output

1
3
5
7
9
Sequence done