

School of Computer Science
INFO1110/9001 Quiz 1

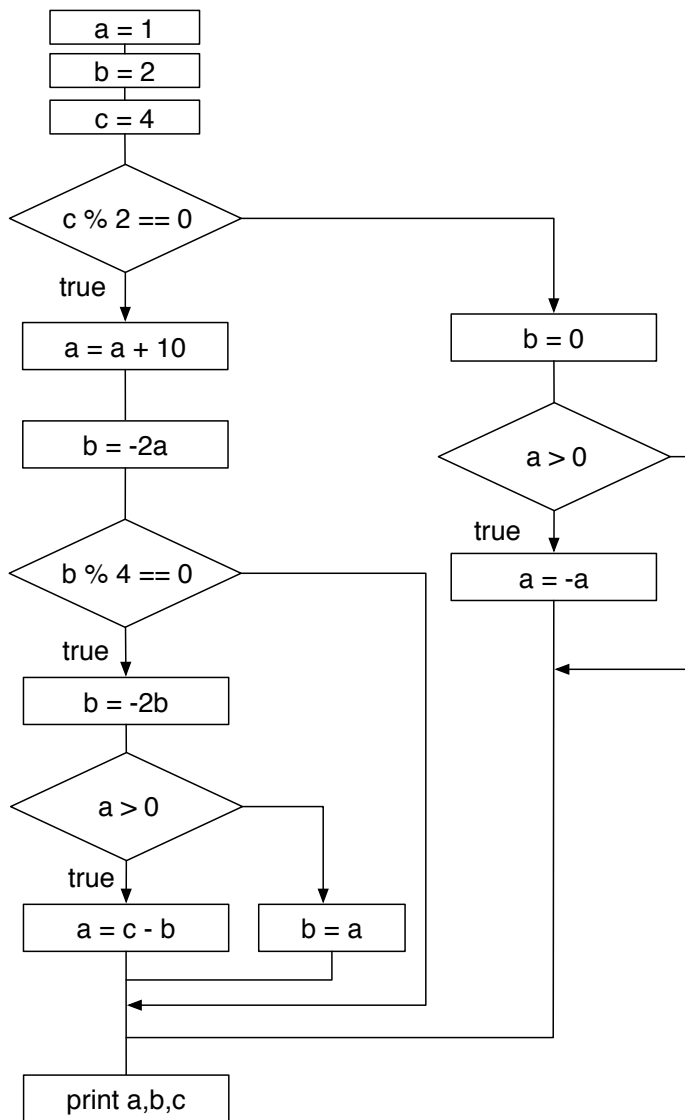
Meerkat

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 `x` after this code executes?

```
1 x = 30
2 print(float(x) + 7.5)
3 x = x + 10
```

Question 3 - 3 mark

Consider the following Python3 code:

```
1 n = 13
2 m = 9
3 k = 10
4
5 x = (n == k/2) or (m > n and (n <= (k+6) or False))
6 y = (not(not x) and (n-3 == k)) or (m+3) > n
7 z = (n > (k + m)) and x or not y
```

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

Question 4 - 3 marks

Consider the code:

```
1 x = "ha"
2 y = "hahaha"
3 if y == x + x + x:
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 = "10"
2 y = "3"
3 z = x + y
4 z = int(z)
5 z = float(z)
```

line	x	y	z
1			
2			
3			
4			
5			

Question 6 - 5 marks

Write a `while` loop that will, given a negative number N , will count back to 0. When zero has been reached, print the words "We have reached zero!"

Example:

Input

-5

Output

-5

-4

-3

-2

-1

0

We have reached zero!