# INFO1103: Introduction to Programming Semester 1-2017 Quiz 1-Sample

Name:	
SID:	
Tutorial:	
Question 1 [2	0 marks]:
1.a) What is to course or not?	he most suitable data type for representing if a student is enrolled in INFO1103
a) int	
b) double	
c) boolean	

- 1.b) Which of the following statements is wrong?
- a) It is valid to start variable names with an underscore.
- b) It is valid to start variable names with a number.
- c) By convention, class names should start with an uppercase letter.
- d) By convention, method names should start with a lowercase letter.
- 1.c) What will be the value of num after this code executes?

```
double num = 5.0;
num = num + 5 / 2;
```

a) 2.0

d) String

- b) 2.5
- c) 7.0
- d) 7.5

1.d) What will be the value of a and b after this code executes?

```
int a = 10;
int b = a++ * 2;
```

- a) a = 10, b = 20
- b) a = 10, b = 22
- c) a = 11, b = 20
- d) a = 11, b = 22

1.e) What will the following code print out?

```
String s = "Hello World!";
System.out.println(s.length());
```

- a) Hello World!
- b) 10
- c) 11
- d) 12

1.f) What will the following code print out?

```
for(int i = 5; i >= 2; i = i - 2) {
    System.out.print(i + " ");
}
```

- a) 53
- b) 5 3 1
- c) 5 3 2
- d) 5 4 2

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1.g) What is the result of the following expression?

```
1 (2 == 3) && true
```

- a) true
- b) false
- c) 2
- d) 3

1.h) Given the following code, what is the value of arr[3]?

```
String[] arr = new String[] {"one", "two", "three four", "five"};
```

- a) "three"
- b) "four"
- c) "three four"
- d) "five"

- 1.i) which option indicates that a method does not return a value?
- a) public
- b) static
- c) void
- d) main

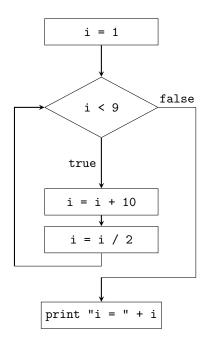
1.j) Which option is a legal invocation of the following method?

```
public static String foo(int a) {
   return a + "";
}
```

- a) int a = foo(100);
- b) double a = foo(100.0);
- c) String a = foo("100");
- d) String a = foo(100);

# Question 2 [10 marks]:

Read the following flowchart.



a) What is the final value of i?

b) How many iterations will there be in total?

### Question 3 [10 marks]:

Read the following code.

```
int index = 0;
int y = 1;
while(index < 6) {
    y = y + index;
    index = index + 2;
}
System.out.println("y is " + y);</pre>
```

a) Produce a deskcheck of this program showing a new line for each change.

b) What is the output of the program?

### Question 4 [20 marks]:

a) What kind of data type is most suitable for the variable xValue?

```
xValue = 47;
```

- b) In an if statement, will the next block of code execute if the condition is true or false?
- c) Identify the errors in the following code.

```
public class CastTest
{
    public static void Main(String[] args)
    {
        double x = (double) ( (int)( 15.0f / (double)2 ) ) ;
        if ( x < 2 || x > 5);{
            int fx = (int)(x) % 3;
            x *= fx;
        }
        System.out.println("x: " + x)
        }
}
```

d) Give an example of an Exception and how it is used.

## Question 5 [30 marks]:

Write a loop to search for the number 7 in an array. When the number if found, return the index of the 7. If the number is not found, return -1.

```
int searchFor7(int[] array) {
```

}

Page 7 of 7