



# QA PROGRAMMING APPLICATION TEST

QA TESTER - BODEN  
VIVIENNE@CMEDUCATIONS.SE

## INFORMATION

This is a test to make sure you have the equivalent skill in programming with C#, Python and Java as given by the Programming 1 course required to apply to the Futuregames QA Tester education.

Please make sure you fill out each answer in a readable way, if we can't read your answer for a question you will receive zero points for that question.

If you get stuck on a question, please move on to the next question and come back to the question after answering the other questions.

If you have any questions don't hesitate to ask.

## CONTACT DETAILS

Name (first and last)	
Personal identity number (Personnummer)	
Mobile phone number	
E-mail adress	
Date	

Good luck!



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## SECTION 1: C#

1. `int a = 10 + 2 * (5 + 5);`

The value of **a** is .....

2. `int a = 7 % 3;`

The value of **a** is .....

3. State the six comparison operators and what they mean.


4. State the three logical operators and what they mean.

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5. What will the value **a** be after each execution?

```
bool run = false;  
int a = 0;
```

```
do {  
    a += 2;  
  
    if (a == 10) {  
        run = false;  
    }  
} while (run);
```

Value of **a** is .....

```
bool run = false;  
int a = 0;
```

```
while (run) {  
    a += 2;  
  
    if (a == 10) {  
        run = false;  
    }  
}
```

Value of **a** is .....



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## SECTION 2: Python

1. What does SymPy do?

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2. List six examples of different data types definable as variables that are used in Python.


3. What is the output of the following script?

```
num = 3
if num > 0:
    print(num, "is a positive number.")
else:
    print(num, "is a negative number.")
```

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4. What is the output of the following script?

```
counter = 0

while counter < 3:
    print("Loop")
    counter = counter + 1
else:
    print("End")
```

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## SECTION 3: Java

1. What is a class in Java and how does it relate to objects?

.....

.....

2. List the five arithmetic operators in Java and their corresponding function.


3. What is the size of the array and the first integer in `int[5]`?

.....

4. What is `recurse()` in Java?

.....

.....



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5. What is the 3<sup>rd</sup> line of output from this script?

```
public class MultiplicationTable {  
    public static void main(String[] args) {  
        int num = 5;  
        for(int i = 1; i <= 10; ++i)  
        {  
            System.out.printf("%d * %d = %d \n", num, i, num * i);  
        }  
    }  
}
```

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//End Test