

TINKER ACADEMY

AP Computer Science Prep (Java Programming)

Spring 2015 FINAL EXAM

Welcome to the Class!

This will cover all the entire AP Computer Science Prep (Java Programming) course.

The final exam has 10 questions.

You have 30 minutes to complete this quiz.

Directions

Type in 1 in the Answer Box if you think Option 1 is the correct answer

Type in 2 in the Answer Box if you think Option 2 is the correct answer

Type in 3 in the Answer Box if you think Option 3 is the correct answer

Type in 4 in the Answer Box if you think Option 4 is the correct answer

Question 1

What is the output of the following code?

```
String key = "";
for (int k = 0; k < 10; k=k+2)
{
    if (k % 4 ==0) {
        continue;
    }
    key = key + k;
}
System.out.println(key);
```

1. 246
2. 642

3. 26
4. 62

Write your answer below

Answer

Question 2

What is the output of the following code?

```
String key = "K";
for (int k = 0; k < 10; k=k+2)
{
    if (k % 4 ==0) {
        break;
    }
    key = key + k;
}
System.out.println(key);
```

What of the following is true

1. K
2. K0
3. K1
4. K02468

Write your answer below

Answer

Question 3

What is the output of the following code?

```
String key = "K";
for (int k = 0, w = 0; k - w < 10; k = k + 2)
```

```
{
    if (k % 4 == 0) {
        w++;
    }
    key = key + k;
}
System.out.println(key);
```

1. K0
2. K024
3. K02468
4. K024681012

Write your answer below

Answer

Question 4

What is the output of the following code?

```
public class A {
    private int id;
    public A(int id) {
        this.id = id;
    }
    public int getId() {
        return this.id;
    }
}
```

```
A a1 = new A(1);
A a2 = new A(2);
A a3 = a1;
a2 = a3;
System.out.println(a2.getId());
```

1. 0
2. 1
3. 2
4. 3

Write your answer below

Answer

Question 5

What is the output of the following code?

```
int sum = 0, p = 1;
for (int count = 1; count <= 4; count++)
{
    sum += p;
    p *= 2;
}
System.out.println(p);
```

1. 10
2. 15
3. 250
4. 2500000

Write your answer below

Answer

Question 6

How many objects will get created in the code below?

```
for (int n = 10, m = 0; n - m > 5 || n - 2m > 0 ; n--)
{
    Object o = new Object();
}
```

1. 0
2. 5
3. 10
4. 15

Write your answer below

Answer

Question 7

What is wrong with the code below?

```
public class A {  
    public A() {  
    }  
    public void foo() {  
        System.out.println("foo");  
    }  
    public void bar() {  
        System.out.println("bar");  
    }  
}
```

```
public class B {  
    public B() {  
    }  
    public void foo() {  
        System.out.println("foo");  
    }  
    public void bar() {  
        System.out.println("bar");  
    }  
}
```

1. Nothing is wrong!
2. The constructor is empty
3. The 2 classes are the same
4. 2 & 3 above

Write your answer below

Answer

Question 8

What is an advantage of OOP?

1. It allows programmers to create objects
2. It allows programmers to define classes
3. It allows programmers to define interfaces
4. It allows programmers to encapsulate change

Write your answer below

Answer

Question 9

What is the role of the Java Virtual Machine?

1. It is used to compile the Java Source code into Java Byte Code
2. It is used to compile the Java Source code into C++ Source Code
3. It acts as a virtual computer and is used to execute Java Byte Code
4. It acts as a virtual computer and is used to execute Java Source Code

Write your answer below

Answer

Question 10

Which of the following is False?

1. A Java class with public access should be defined in a Java source file with the same name
2. The keyword public in a method signature indicates that the all other parts of the program can access this method

3. The keyword static in a method signature indicates that the method can be called by the Java Virtual Machine (JVM) before an object of the class has been created.
4. The keyword void indicates that the method can never be invoked.

Write your answer below

Answer