

Basics of Objects

Practice Quiz, 5 questions

1
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1.

Which keyword do you use to create a new instance of an object?

- ☐ this
- ☐ new

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2.

Consider the following code (defined in two different appropriately named files):

```
1 public class MyClass
2 {
3     public int a;
4     public double b;
5     public MyClass(int first, double second)
6     {
7         this.a = first;
8         this.b = second;
9     }
10    public boolean same(MyClass other)
11    {
12        return other.a == this.a && other.b == this.b;
13    }
14 }
15
16 public class MyClassTester
17 {
18     public static void main(String[] args)
19     {
20         MyClass c1 = new MyClass(30, 123.9);
21         MyClass c2 = new MyClass(30, 29.7);
22         MyClass c3 = new MyClass(c1.a, c2.b);
23
24         System.out.println(c2.same(c3));
25     }
26 }
27
```

In the main method of MyClassTester, how many objects (instances) of type MyClass are created?

- ☐ 1
- ☐

2

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4

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3.

Referring to the same code as the previous question:

```
1 public class MyClass
2 {
3     public int a;
4     public double b;
5     public MyClass(int first, double second)
6     {
7         this.a = first;
8         this.b = second;
9     }
10    public boolean same(MyClass other)
11    {
12        return other.a == this.a && other.b == this.b;
13    }
14 }
15
16 public class MyClassTester
17 {
18     public static void main(String[] args)
19     {
20         MyClass c1 = new MyClass(30, 123.9);
21         MyClass c2 = new MyClass(30, 29.7);
22         MyClass c3 = new MyClass(c1.a, c2.b);
23
24         System.out.println(c2.same(c3));
25     }
26 }
```

What does the main method of MyClassTester print?

- ☐ true
- ☐ false

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4.

Please review the code below:

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```
1 public class MyClass2
2 {
3     //...
4     public void method1(int a)
5     {
6     }
7
8 }
```

Given the class above, which method signature(s) below would be valid for method overloading (in other words, which methods could you add without a compiler error)? More than one answer may be correct.

- ☐ public boolean method1(int a)
- ☐ public void method1(int a, int b)
- ☐ public void method1(String a)

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5.

Consider the code:

```
1 public class MyClass3
2 {
3     private int a;
4
5     public MyClass3(int first)
6     {
7         this.a = first;
8     }
9 }
10
11 public class MyClassTester
12 {
13     public static void main(String[] args)
14     {
15         MyClass3 c1 = new MyClass3(30);
16         System.out.println(c1.a);
17     }
18 }
```

What is the output of the code above?

- ☐ 30
- ☐ Compiler Error
- ☐ Runtime Error