

2025 Fall

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1. Introduction to Java Results for Christine En-Tse Cheng

Submitted Dec 13 at 4:32p.m.

Quiz Submissions

Attempt 1: 0

This quiz has unlimited attempts

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Unanswered

Question 1

0 / 1 pts

Java is considered what type of programming language? Choose the best answer.

- ☐ A markup language
- ☐ A compiled language
- ☒ A hybrid language
- ☐ A scripting language
- ☐ An interpreted language

Unanswered

Question 2

0 / 1 pts

Select the correct order (from top to bottom) of the layered computer architecture described in the course notes. Choose the best answer.

- ☐ application, hardware, OS
- ☒ Java program, JVM, OS, hardware
- ☐ Java program, OS, hardware
- ☐ OS, hardware, JVM, Java program

See the notes for the architectural diagram.

Unanswered

Question 3

0 / 1 pts

The following code fragment is executed and runs without error:

```
int i;
```

Which of the following choices do not result in an error if added directly below the above line and compiled?

- ☒ i = 1;
- ☐ i = 1.1;
- ☐ i = "hello";

Unanswered

Question 4

0 / 1 pts

Which of the following choices are a correct way to construct a String in Java?

- ☒ String str = "newString";
- ☒ String str;
str = "newString";
- ☐ String str = String("newString");
- ☐ None of the choices will construct a String.

☐ str = "newString";



String str;

☐ str = new String("newString");



☐ String str = new String("newString");

Unanswered

Question 5

0 / 1 pts

Which of the following code snippets will print `false` ?



String a = new String("abcd");

String b = new String("abcd");

☐ System.out.print(a == b);

String a = "abcd";

String b = "abcd";

☐ System.out.print(a == b);

Unanswered

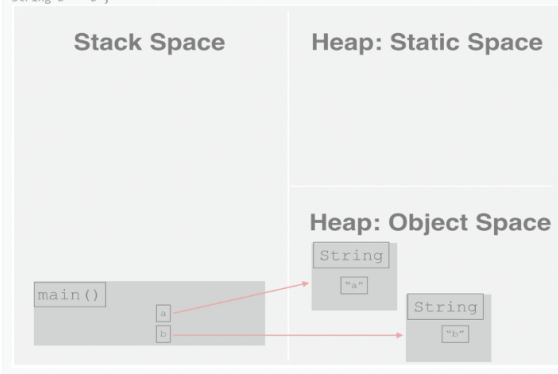
Question 6

0 / 1 pts

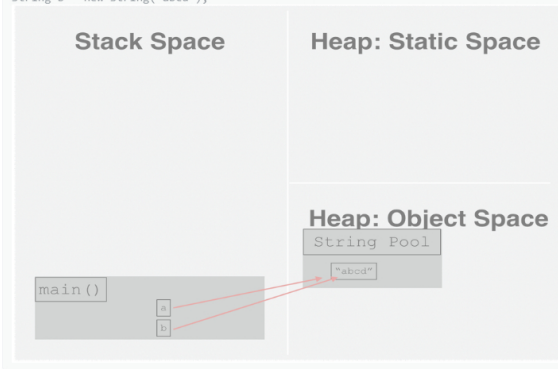
Which of the following memory models match with the given code?



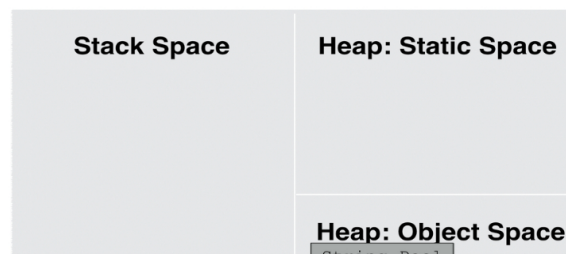
```
String a = "a";  
String b = "b";
```

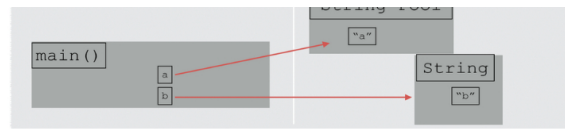


```
String a = new String("abcd");  
String b = new String("abcd");
```



```
String a = "a";  
String b = new String("b");
```





☐ None of the memory model diagrams provided match their code.

Unanswered

Question 7

0 / 1 pts

Which of the following statements is correct?

- ☐ All primitive types and class types are immutable.
- ☐ There are mutable primitive types and immutable primitive types.
- ☐ There are mutable class types and immutable class types.
- ☐ All primitive types are immutable.
- ☐ All class types are mutable.
- ☐ Every type in Java is mutable.
- ☒ All primitive types are immutable.
- ☐ There are mutable class types and immutable class types.

Unanswered

Question 8

0 / 1 pts

Which of the following types are *reference* types? Check all that apply.

Hint: Look at the first letter of each type

- ☐ double
- ☒ Integer
- ☒ Object
- ☒ Character
- ☒ String
- ☐ int
- ☐ char
- ☒ Double

Unanswered

Question 9

0 / 1 pts

Consider the following code. Which of the following will instantiate (create an instance of) class Moogah and print the value of its blurb variable?

```
public class Moogah {
    public String blurb;
    private int someNum;

    // constructor for Moogah
    Moogah(String blurb, int x) {
        this.blurb = blurb;
        someNum = x;
    }

    public String getBlurb() {
        return blurb;
    }
}
```

- ☐ Moogah var1 = new Moogah();
System.out.println(var1.getBlurb());
- ☒ Moogah var1 = new Moogah("Hello", 2);
System.out.println(var1.getBlurb());

☐ Moogah var1 = new Moogah();
System.out.println(var1.blurb);

Unanswered

Question 10

0 / 1 pts

Given the code below, match the expressions on the left to the what they evaluate to on the right.

```
int[] tweedle = new int[20];
int[][] dee = new int[5][10];
String[] dum = new String[22];

tweedle[1] = 1;
tweedle[2] = 100;
dum[0] = new String("Hi");

dee[0][0] = 0;
dee[0][1] = 1;
dee[0][2] = 2;
```

☒ dee[0][1]

1

☒ dee[1][1]

What is the default value for an int?

0

☒ dum[tweedle[1]]

null

☒ dum[dee[0]]

indexing requires an integer value; what is the type of dee[0]? Does this get determined at runtime or compile time?

Note: there was a typo in the question before — it should have read dum[dee[0]] rather than dum[dee[0][1]]. For dum[dee[0][1]] you would get null.

a compiler error occurs

☒ dum[dee[0][1] - 1].charAt(1)

'i'

Other Incorrect Match Options:

- a runtime error occurs
- 'H'
- 2
- 100
- "Hi"
- -1

Unanswered

Question 11

0 / 1 pts

If the following code is executed, what is printed?

```
public static void main(String[] args) {
    int testscore = 76;
    char grade;

    if (testscore >= 90) {
        grade = 'A';
    } else if (testscore >= 80) {
        grade = 'B';
    } else if (testscore >= 70) {
        grade = 'C';
    } else if (testscore >= 60) {
        grade = 'D';
    }
}
```

```
} else {  
    grade = 'F';  
}  
System.out.println(grade);  
}
```

☐ null

☐ B

☒ C

☐ A

☐ D

☐ F

Unanswered

Question 12

0 / 1 pts

What does the following code print when executed?

```
boolean a = true;  
int i = 5;  
int j = 10;  
int k = 15;  
boolean b = i < j && j < k;  
System.out.println(!b || a);
```

☐ false

☒ true

Unanswered

Question 13

0 / 1 pts

Suppose we want to print numbers from 1 to 5 and from 5 to 1. Which of the following code fragments will achieve this and do not result in an error?

HINT: There are 5 correct choices in total

☒

```
for (int i = 1; i <= 5; i++) {  
    System.out.println(i + ", " + (6-i));  
}
```

☐

```
int i;  
for (; i <= 5; i++) {  
    System.out.println(i + ", " + (6-i));  
}
```

☐

```
for (int i = 1, j = 5; i <= 5, true; i++, j--) {  
    System.out.println(i + ", " + j);  
}
```

☒

```
for (int i = 1, j = 5; i <= 5 && true; i++, j--) {  
    System.out.println(i + ", " + j);  
}
```

☒

```
int i;  
for (i = 1; i <= 5; ) {  
    System.out.println(i + ", " + (6-i));  
    i++;  
}
```

☒

```
int i = 0;  
for (++i; i <= 5; i++) {  
    System.out.println(i + ", " + (6-i));  
}
```

☒

```
int i = 1;  
for (; i <= 5; i++) {  
    System.out.println(i + ", " + (6-i));  
}
```

Don't forget that you can try these out in IntelliJ to double check your understanding of the syntax. Stepping through with the debugger may also help.

