AED18FallQuiz7_13-15 30 minutes

Question - 1 SCORE: 10 points Which of the following is true about factory method? A factory method is a non-constructor operation that creates and returns class instances Factory methods are widely used in mid-level design patterns and in object-oriented programming in general Factory methods create new instances using constructors or cloning, so they do not rely on any special technique for class instantiation All of the above. Question - 2 SCORE: 10 points Say that there are three classes: Computer, AppleComputer, and IBMComputer. What are the likely relationships between these classes? Computer is the superclass, AppleComputer and IBMComputer are subclasses of Computer. Computer, AppleComputer and IBMComputer are sibling classes. IBMComputer is the superclass, AppleComputer and Computer are subclasses of IBMComputer. Computer is a superclass, AppleComputer is a subclasses of Computer, and IBMComputer is a sublclas of AppleComputer. Question - 3 SCORE: 10 points Which of the following is incorrect? Which of the following is incorrect?

X: super keyword and this keyword can not be used in a static method.



23456789345678910	
23456789	
12345678	
01234567	
<pre>int[] nums = {1, 2, 3, 4, 5, 6, 7, 8, 9}; for (int i = 0; i < 8; i++) { System.out.print(nums[i]+1); }</pre>	
What numbers does the following code print to the console?	
Question - 5	SCORE: 10 points
Error because index is out of range	
Error because array is not initialized	
Some junk value	
O 0	
System.out.println(arr[9]);	
<pre>int[] arr = new int[9];</pre>	
Vhat will be the output of the following code?	
Question - 4	SCORE: 10 points
Both are incorrect	
Both are correct	
Only Y	

input: {'a','b','c'} output: {'c','b','a'}

SCORE: 10 points

static

Choose the correct output according to following code:

```
public class Q {
    static int c = 0;
    public static void main(String[] args) {
        Q q1 = c();
        Q q2 = c(q1);
        Q q3 = c(q2);
        Q q4 = c(q3);
    }
    private Q() {
        System.out.print("c = " + c + " ");
    }
    static Q c() {
        return c++ <= 0 ? new Q() : null;
    }
    static Q c(Q w) {
        return w.c++ == 1 ? new Q() : null;
}</pre>
```

- \circ c = 1 c = 2
- c = 1 c = 2 c = 3
- c = 1 c = 2 c = 3 c = 4
- Compilation Error
- NullPointerException

Question - 8

Which is the correct syntax to convert JPanel layout to CardLayout?

- A. CardLayout layout = ((CardLayout)myPanel).getLayout();
- B. CardLayout layout = (CardLayout) myPanel.getLayout();
 -) A
 - B
 - Both A and B are correct
 - Both A and B are incorrect