第四周复习

易翔

建议 30 分钟内完成。

一、判断题　共 3 小题

1. Instance methods in a class can also be overloaded. ＿＿

2. __gcd is a valie name of a variable. ＿＿

3. Static methods can be called without being instantiated. ＿＿

二、单项选择题　共 5 小题

1. Which of the following words is not a Java reserved word? ＿＿ ....( )

   A. throw　　　　　　B. short　　　　　　C. extends　　　　　　D. instance

2. Which of the following is NOT a valid way to declare an array? ＿＿ ....( )

   A. int a = new int[12];　　　　　　　B. char b[] = {'1'}

   C. long c = new long[2]{1L, 3L};　　　D. boolean[] d; d = new boolean[2];

3. What will the console output after executing the following statement? ＿＿

   int t = 6;

   System.out.print(t ++ + ++ t); ....( )

   A. Occur Compile Error　　　　　　B. 12

   C. 13　　　　　　　　　　　　　　　D. 14

4. The following is part of the code in the program. Which line of the statement will report a runtime error? ＿＿

   byte i = 5;

   System.out.print((int) i);

   i = i + 1; ....( )

   A. There is no error.　　　　　　　B. Line 1

   C. Line 2　　　　　　　　　　　　　D. Line 3

5. What will the console output after executing the following statement? ＿＿

char[] chars = new char[]{'1', '2', '3'};

System.out.println(chars); .... (　　)

  A. Occur Compile Error　　　　　　　　　　B. Out-put the address of the array

  C. 123　　　　　　　　　　　　　　　　　　D. ['1', '2', '3']

三、简答题　共 1 小题

1. Now you are ask to recursively(递归地) approach a method to calculate factorial(阶乘) of a nonnegative integer n.

```java
public static int factorial (int n) {
    // implement your code here.
}
```
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