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 valid 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.

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

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