

试题如下:

(一) 选择题 (每题 5 分)

(1) 下面程序的运行结果是: ()

```
String str1 = "hello";  
String str2 = "he" + new String("llo");  
System.err.println(str1 == str2);
```

A、 true ☒ B、 false

(2) 存在使 $i + 1 < i$ 的数吗? ()

A、 存在 ☒ B、 不存在

(3) GC 线程是否为守护线程? ()

A、 是 B、 不是

(4) volatile 关键字是否能保证线程安全? ()

A、 能 B、 不能 ☒

(5) `ArrayList list = new ArrayList(20);` 中的 list 扩充几次?

A、 0 ☒ B、 1 C、 2 D、 3

(6) 新建一个流对象, 下面哪个选项的代码是错误的? ()

A、 `new BufferedWriter(new FileWriter("a.txt"));`

B、 `new BufferedReader(new FileInputStream("a.dat"));`

C、 `new GZIPOutputStream(new FileOutputStream("a.zip"));`

D、 `new ObjectInputStream(new FileInputStream("a.dat"));`

(7) `getCustomerInfo()` 方法如下, try 中可以捕获三种类型

行中产生了一个 `IOException`, 将会输出什么结果 ()

```
public void getCustomerInfo() {  
    try {  
        // do something that may cause an Exception  
    } catch (java.io.FileNotFoundException ex) {  
        System.out.print("FileNotFoundException!");  
    }  
}
```

```

    } catch (java.io.IOException ex) {
        System.out.print("IOException!");
    } catch (java.lang.Exception ex) {
        System.out.print("Exception!");
    }
}

```

- A、IOException!
- B、IOException!Exception! ✓
- C、FileNotFoundException!IOException!
- D、FileNotFoundException!IOException!Exception!

(8) 下面代码的运行结果为 ()

```

import java.io.*;
import java.util.*;

public class foo{
    public static void main (String[] args){
        String s;
        System.out.println("s=" + s);
    }
}

```

- A、代码得到编译，并输出 "s="
- B、代码得到编译，并输出 "s=null" ✓
- C、由于 String s 没有初始化，代码不能编译通过
- D、代码得到编译，但捕获到 NullPointerException 异常

(9) System.out.println("5" + 2); 的输出结果应该是： (

- A、52 ✓
- B、7
- C、2

(10) 下面的方法，当输入 i 为 2 的时候返回值是多少？ (

```

public static int getValue(int i) {
    int result = 0;
    switch (i) {
        case 1:
            result = result + i;
        case 2:
            result = result + i * 2;
        case 3:
            result = result + i * 3;
    }
}

```

```

    }
    return result;
}

```

A、0

B、2

C、4

D、

(二) 简答题 (每题 10 分, 请将答案写在题后)

(1) 下面程序能正常运行结果为?

```

public class NULL {
    public static void hello() {
        System.out.println("hello");
    }
    public static void main(String[] args) {
        ((NULL)null).hello();
    }
}

```

答案:

(2) 指出下列程序运行的结果?

```

public class Example {

    String str = new String("good");

    char[] ch = { 'a', 'b', 'c' };

    public static void main(String args[]) {

```

```

        Example ex = new Example();
        ex.change(ex.str, ex.ch);
        System.out.print(ex.str + " and ");
        System.out.print(ex.ch);
    }

    public void change(String str, char ch[]) {
        str = "test ok";
        ch[0] = 'g';
    }
}

```

答案:

(3) 下面程序的运行结果是什么?

```

public class Test1 {
    public static void changeStr(String str) {
        str = "welcome";
    }
    public static void main(String[] args) {
        String str = "1234";
        changeStr(str);
        System.out.println(str);
    }
}

```

答案:

(4) 下面程序的运行结果是什么?

```

Public class Test2 {
    static boolean foo(char c) {
        System.out.print(c);
        return true;
    }
}

```

```

Public static void main(String[] argv) {
    int i = 0;
    for (foo('A'); foo('B') && (i < 2); foo('C')) {
        i++;
        foo('D');
    }
}

```

答案:

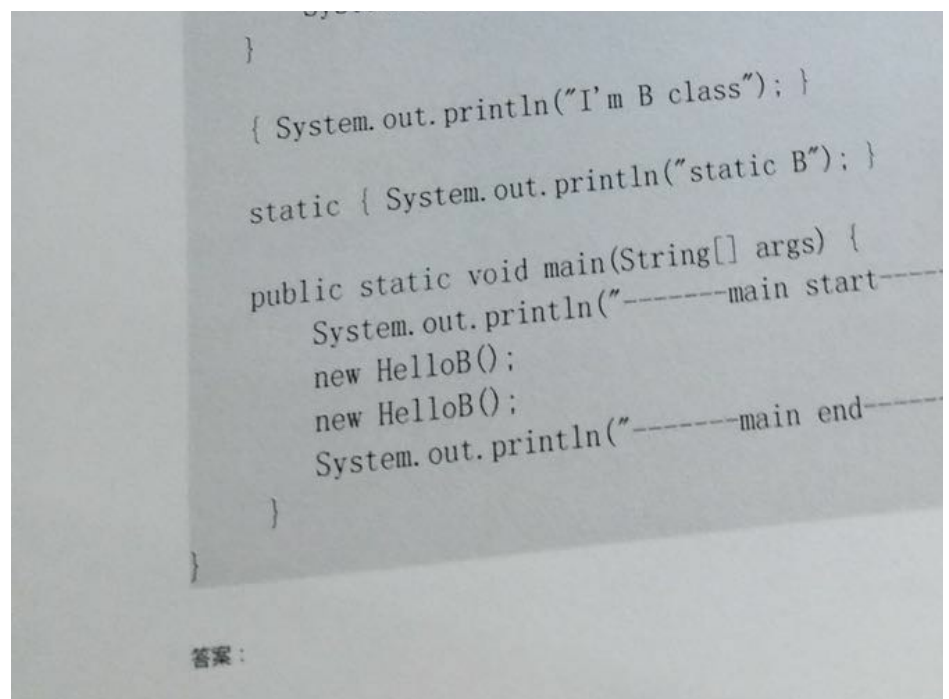
(5) 下面程序的运行结果是什么?

```

class HelloA {
    public HelloA() {
        System.out.println("HelloA");
    }
    { System.out.println("I'm A class"); }
    static { System.out.println("static A"); }
}

public class HelloB extends HelloA {
    public HelloB() {
        System.out.println("HelloB");
    }
}

```

参考答案：

```
import java.io.FileNotFoundException;  
import java.io.IOException;  
import java.util.ArrayList;  
import java.util.concurrent.ExecutorService;  
import java.util.concurrent.Executors;  
  
/**  
 * Created by ysc on 7/26/16.  
 */  
public class Interview {  
    private static void one(){  
        String str1 = "hello";  
        String str2 = "he"+new String("llo");  
        System.err.println(str1==str2);  
        System.out.println("1. false");  
    }  
    private static void two(){  
        int i = Integer.MAX_VALUE;  
        System.err.println((i+1)<i);  
        System.out.println("2. 存在一个i, 使得(i+1)<i");  
    }  
    private static void three(){  
        System.err.println("gc is not a Java Thread, it  
Thread.getAllStackTraces().keySet().forEach(thr  
        System.out.println("3. gc线程是daemon线程");  
    }  
    private static volatile int count = 0;  
    private static void four(){  
        ExecutorService executorService = Executors.new  
        for(int j=0; j<10; j++){  
            executorService.submit(()->{  
                for(int i=0; i<10000000; i++){
```

```

        count++;
    }
    });
}
System.out.println("count should be: "+10000000);
System.out.println("4. volatile不能保证线程安全");
}
private static void five(){
    ArrayList<Integer> list = new ArrayList<>(20);
    list.add(1);
    System.out.println("debug code, not execute gro");
    System.out.println("5. list grow 0 times");
}
private static void six() {
    System.out.println("BufferedReader's constructo");
    System.out.println("6. new BufferedReader(new F");
}
private static void seven() {
    try{
        if(true){
            throw new IOException();
        }
    }catch (FileNotFoundException e){
        System.out.print("FileNotFoundException!");
    }catch (IOException e){
        System.out.print("IOException!");
    }catch (Exception e){
        System.out.print("Exception!");
    }
    System.out.println("\n7. IOException!");
}
private static void eight() {
    System.out.println("String s;System.out.println");
    System.out.println("8. 由于String s没有初始化, 代");
}
private static void nine() {
    System.out.println("5"+2);
    System.out.println("9. 52");
}
private static void ten() {
    int i = 2;
    int result = 0;
    switch(i){
        case 1:
            result = result + i;
        case 2:
            result = result + i * 2;
        case 3:
            result = result + i * 3;
    }
    System.out.println("result="+result);
    System.out.println("10. 10");
}
private static class Null{

```

```

        public static void hello(){
            System.out.println("hello");
        }
        public static void main(String[] args) {
            ((Null)null).hello();
            Null _null = (Null)null;
            _null.hello();
        }
    }
    private static class StringExample1{
        String str = new String("good");
        char[] ch = {'a', 'b', 'c'};
        public void change(String str, char[] ch){
            str = "test ok";
            ch[0] = 'g';
        }

        public static void main(String[] args) {
            StringExample1 ex = new StringExample1();
            ex.change(ex.str, ex.ch);
            System.out.print(ex.str+" and ");
            System.out.print(ex.ch);
            System.out.println();
        }
    }
    private static class StringExample2{
        public static void change(String str){
            str = "welcome";
        }

        public static void main(String[] args) {
            String str = "1234";
            change(str);
            System.out.println(str);
        }
    }
    private static class ForLoop{
        static boolean foo(char c){
            System.out.print(c);
            return true;
        }

        public static void main(String[] args) {
            int i=0;
            for(foo('A');foo('B')&&(i<2);foo('C')){
                i++;
                foo('D');
            }
            System.out.println();
        }
    }
    private static class HelloA{
        public HelloA(){
            System.out.println("HelloA");
        }
    }

```

```

    }

    { System.out.println("I'm A class"); }

    static {
        System.out.println("static A");
    }
}
private static class HelloB extends HelloA{
    public HelloB(){
        System.out.println("HelloB");
    }

    { System.out.println("I'm B class"); }

    static {
        System.out.println("static B");
    }

    public static void main(String[] args) {
        System.out.println("main start");
        new HelloB();
        new HelloB();
        System.out.println("main end");
    }
}
public static void main(String[] args) {
    one();
    two();
    three();
    four();
    five();
    six();
    seven();
    eight();
    nine();
    ten();
    Null.main(null);
    StringExample1.main(null);
    StringExample2.main(null);
    ForLoop.main(null);
    HelloB.main(null);
}
}

```