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四、程序阅读(共30分,每题6分)
阅读以下程序,写出结果
public class TestArray {
   public static void main(String args[]) {
                     \begin{aligned} i,j; & \text{ int } a[] = \{5,9,6,8\}; \\ & \text{ int } k=i; \\ & \text{ for } (i=0\,;i< a.length-1;i++) \, \{ \\ & \text{ int } k=i; \\ & \text{ for } [j=i]; < a.length;j++) \\ & \text{ if } (a[j] < a[k]) \, k=j; \\ & \text{ int } temp = a[l]; \\ & a[k] = temp; \, \} \end{aligned} 
           int i, j;
        package examination2020;
package examination2020;
import java.util. Arrays;
import java.util. Comparator;
abstract class Shape implements Comparable<Shape> {
int i, p, a;
String name;
public Shape(String name, int i, int p, int a) {
System.out.println("created " + name);
this.name = name;
this.i = i;
this.p = p;
this.a = a;
}
           public int getPerimeter() {
return p;
           public int getArea() {
                     return a:
           public int compareTo(Shape o) {
    return this.getArea() - o.getArea();
          public String toString() {
    return String.format("%s:%d:%d:%d", name, i, p, a);
           }
class Circle extends Shape {
   public Circle(String name, int i, int p, int a) {
                    super(name, i, p, a);
}
class Rect extends Shape {
   public Rect(String name, int i, int p, int a) {
      super(name, i, p, a);
}
}
class Triange extends Shape {
   public Triange(String name, int i, int p, int a) {
      super(name, i, p, a);

}
public class CalShape {
    public static void main(String[] args) {
        Shape[] s = new Shape[3];
        s[0] = new Circle("c", 1, 2, 4);
        s[1] = new Rect("r", 12, 14, 16);
        s[2] = new Triange("r", 3, 6, 9);
        System.out.println(s[0]);
        Arrays.sort(s);
        System out println(s[1]);
                       System.out.println(s[1]);
                      Arrays.sort(s, new Comparator<Shape>() {
    public int compare(Shape o1, Shape o2) {
        return -(o1.getPerimeter() - o2.getPerimeter());
    }
                               }
                     });
System.out.println(s[0]);
          }
 public class MyThread implements Runnable(
           int count = 1;
public MyThread(){
                      System.out.println("创建线程");
           public void run(){
                     while (true) {
    System.out.println("计数:" + count);
    if (++count == 6)
                                          return:
          public static void main(String args[]){
    new Thread(new MyThread()).start();
          }
import java.util.Set;
import java.util.TreeMap;
public class Person implements Comparable<Person>{
private String name;
           private unit age;
public Person(String name, int age) {
    super();
    this.name = name;
                      this.age = age;
```

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public String getName() {
                    return name
          public void setName(String name) {
                    this.name = name;
          public int getAge() {
         public void setAge(int age) {
    this.age = age;
          public int compareTo(Person o) {
                  if (this.age > o.getAge()) {
return 1;
                   }
if (this.age < o.getAge()) {
    return -1;
                   }
return 0;
         }
public static void main(String[] args) {
    TreeMap<Person, String> pdata = new TreeMap<Person, String>();
    pdata.put(new Person("张三", 30), "zhangsan");
    pdata.put(new Person("李四", 20), "lisi");
                    pdata.put(new Person("五声", 10), "wangwu");
pdata.put(new Person("小红", 5), "xiaohong");
Set<Person> keys = pdata.keySet();
                   for (Person key: keys) {
    System.out.println(key.getAge() + "-" + key.getName());
        }
 请分别写出服务端和客服端程序的输出。
 服务端程序:
String inte = reader-readiline();

if (line.equals("add")) {

  int a = Integer.parseInt(reader.readLine());

  int b = Integer.parseInt(reader.readLine());

  writer.println(a + b);

  writer.flush();
                                                          writer.flush();

else if (line equals("sub")) {

int a = Integer.parseInt(reader.readLine());

int b = Integer.parseInt(reader.readLine());

writer.println(a - b);

writer.flush();
                                                socket.close();
} catch (IOException e) {
e.printStackTrace();
                                   }
                             t.start();
      }
 ,
客户端程序:
客戶端程序:
public class Client {
public static void main(String[] args) throws UnknownHostException,
IOException {
Socket socket = new Socket("localhost", 8000);
InputStream in = socket.getInputStream();
OutputStream out = socket.getCutputStream();
PrintWriter writer = new PrintWriter(new OutputStreamWriter(out));
BufferedReader reader = new BufferedReader(new InputStreamReader(in));
writer printIn("add"):
                    writer.println("add");
writer.println(20);
writer.println(1);
writer.flush();
String result = reader.readLine();
                   String result = reader.read.
System.out.println(result);
writer.println("sub");
writer.println(20);
writer.println(1);
writer.flush();
result = reader.readLine();
                     System.out.println(result);
                     socket.close();
```