

浙大20秋JAD W4作业

判断题 9	A. 单选题 19	程序填空题 2	编程题 1
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2-1

Given the following expression: `int m[] = {0, 1, 2, 3, 4, 5, 6 };`

(2分)

Which result of the following expressions equals to the number of the array elements? ()

☐ A. m.length()

☒ B. m.length

☐ C. m.length()+1

☐ D. m.length+1

2-1

答案正确 (2 分)

作者

翁恺

单位

浙江大学

2-2

Given code below:

(2分)

```
Set<Integer> s = new HashSet<Integer>();
s.add(1);
s.add(2);
s.add(1);
```

Which statement below is correct?

☒ A. It compiles, but only two element left in s

☐ B. It does not compile because 1 and 2 are not objects of Integer

☐ C. It compiles but exception raises at line 2, for 1 is not an objects of Integer

☐ D. It compiles but exception raises at line 4, for 1 is already in the set

2-2

答案正确 (2 分)

作者

翁恺

单位

浙江大学

2-3

Given code below:

(2分)

```
class B {}
class C extends B {}
```

Which function below is NOT able to accept objects of both `List` and `List<C>` ?

☐ A. `void f(List<? extends B> list);`

☒ B. `void f(List list);`

☐ C. `void f(List list);`

☐ D. `void f(List<?> list);`

2-3

答案正确 (2 分)

作者

翁恺

单位

浙江大学

2-4

About Java containers, which statement below is NOT correct? (2分)

☐ A. `ArrayList` holds the elements in a particular sequence.

☐ B. `TreeSet` cannot have any duplicate elements.

☐ C. `LinkedList` holds the elements in a particular sequence.

☒ D. `List` , `Set` and `Map` , they all have `stream()` interface.

2-4

答案正确 (2 分)

作者

翁恺

单位

浙江大学

2-5

Given code below:

(2分)

```
List<String> l1 = new ArrayList<>();
ArrayList<Integer> l2 = new ArrayList<>();
System.out.println(l1.getClass() == l2.getClass());
```

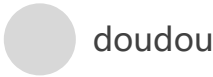
The result of compilation and running in Java 8 is:

☒ A. It compiles and prints out true

☐ B. It compiles and prints out false

☐ C. It does not compile





2-6 What will happen to access an invalid index of an array? (2分)

- ☐ A. Program terminated.
- ☒ B. Exception thrown.
- ☐ C. System crashed.
- ☐ D. Access ignored.

作者

翁恺

单位

浙江大学

2-6 答案正确 (2 分)

2-7 9. Given `a=new int[10]` , which expression below can cause `ArrayIndexOutOfBoundsException` ? (2分)

- ☐ A. `a[0] += 9;`
- ☐ B. `a[9]=10;`
- ☐ C. `a[9]`
- ☒ D. `for(int i=0;i<=10;i++) a[i]++;`

作者

翁恺

单位

浙江大学

2-7 答案正确 (2 分)

2-8 Given list an object of ArrayList, which code below for `//todo delete` can remove an element in the list correctly and safely? (2分)

```
Iterator it = list.iterator();
int index = 0;
while (it.hasNext()){
    Object obj = it.next();
    if (needDelete(obj)) { // returns Boolean for removing or not
        //todo delete
    }
    index ++;
}
```

- ☐ A. `list.remove(obj);`
- ☐ B. `list.remove(index);`
- ☐ C. `list.remove(it.next());`
- ☒ D. `it.remove();`

作者

翁恺

单位

浙江大学

2-8 答案正确 (2 分)

2-9 Which of the interfaces below is a collection as duplicating, ordered, unsorted? (2分)

- ☒ A. ArrayList
- ☐ B. HashMap
- ☐ C. TreeSet
- ☐ D. Collection

作者

翁恺

单位

浙江大学

2-9 答案正确 (2 分)

2-10 Which statement is true for the class `java.util.ArrayList`? (2分)

- ☒ A. The elements in the collection are ordered.
- ☐ B. The collection is guaranteed to be immutable.
- ☐ C. The elements in the collection are guaranteed to be unique.
- ☐ D. The elements in the collections are guaranteed to be synchronized

作者

翁恺

单位

浙江大学

2-10 答案正确 (2 分)

2-11 Which most closely matches a description of a Java Map? (2分)

- ☐ A. A vector of arrays for a 2D geographic representation
- ☐ B. A class for containing unique array elements

作者

翁恺

单位

浙江大学

2-11 答案正确 (2 分)

2-12 What will happen if you compile/run the following lines of code? (2分)

```
Vector a = new Vector();
a.addElement(10);
System.out.println(a.elementAt(0));
```

作者

翁恺

单位

浙江大学

- ☒ A. Prints 10.
- ☐ B. Prints 11.
- ☐ C. Compilation error at line 3.
- ☐ D. Prints some garbage.

2-12 答案正确 (2 分)

2-13 About Java containers, which statement below is NOT correct? (2分)

作者

翁恺

单位

浙江大学

- ☐ A. `List` holds the elements in a particular sequence
- ☐ B. `Set` cannot have any duplicate elements
- ☐ C. `Map` has group of key-value object pairs
- ☒ D. `Iterator` can deal with `List`, `Set` and `Map`

2-13 答案正确 (2 分)

2-14 Given code below: (2分)

```
List<String> ls = new ArrayList<String>();
List<Object> lo = ls;
lo.add(new Object());
String s = ls.get(0);
```

作者

翁恺

单位

浙江大学

Which statement below is correct?

- ☒ A. It does not compile
- ☐ B. It compiles but exception raises at line 2
- ☐ C. It compiles but exception raises at line 3
- ☐ D. It compiles but exception raises at line 4

2-14 答案正确 (2 分)

2-15 Which one below is correct to define and create an array? () (2分)

作者

翁恺

单位

浙江大学

- ☐ A. `int a[5];`
- ☐ B. `int a[] = new [5];`
- ☒ C. `int a[] = {1,2,3,4,5};`
- ☐ D. `int a = new int[5];`

2-15 答案正确 (2 分)

2-16 Which of the interfaces below is a collection as duplicating, ordered, unsorted? (2分)

作者

翁恺

单位

浙江大学

- ☒ A. List
- ☐ B. Map
- ☐ C. Set
- ☐ D. Collection

2-16 答案正确 (2 分)

2-17 Given code below: (2分)

```
Set<Integer> s = new HashSet<Integer>();
s.add(new Integer(1));
s.add(new Integer(2));
```

作者

翁恺

单位

浙江大学



- ☒

A. It compiles, but only two elements left in s.
- ☐

B. It does not compile.
- ☐

C. It compiles but exception raises at line 4, for 1 is already in the set.
- ☐

D. It complies and there are three elements in s.

2-17

答案正确

(2 分)

2-18

What will happen if you try to compile and run the following code?

(2分)

```
public class Q {
    public static void main(String argv[]){
        int anar[]=new int[5];
        System.out.println(anar[0]);
    }
}
```

作者

翁恺

单位

浙江大学

- ☐

A. Error: anar is referenced before it is initialized
- ☐

B. null
- ☒

C. 0
- ☐

D. 5

2-18

答案正确

(2 分)

2-19

For code below:

(2分)

```
ArrayList<Integer> a = new ArrayList<Integer>();
ArrayList<Double> b = new ArrayList<Double>();
```

作者

翁恺

单位

浙江大学

Which statement below is **NOT** correct?

- ☐

A. a.getClass().equals(b.getClass()) is true
- ☐

B. a.getClass() == b.getClass() is true
- ☐

C. a instanceof ArrayList is true
- ☒

D. a.getClass() == b.getClass() is false

2-19

答案正确

(2 分)

