```
Given:

Collection<Number> col = new HashSet<>();

col.add(1);

var list1 = List.of(col); //1

col.add(2); //2

var list2 = List.copyOf(col); //3

System.out.println(list1+", "+list2);

What is the output?

A. It will not compile.

B. Exception at run time at line marked //1.

C. Exception at run time at line marked //2.

D. Exception at run time at line marked //3.

E. [[1,2]],[1,2]
```

F. [1],[1,2]

Given:

```
List<String> list1=new LinkedList<String>();

Set<String> set1=new HashSet<String>();

String[] data={"a","b","c","b","a"};

for(String s:data){
            list1.add(s);
            set1.add(s);

}

System.out.print(set1.size()+" "+list1.size()+" ");

HashSet set2=new HashSet(list1);

LinkedList list2=new LinkedList<>(set1);

System.out.print(set2.size()+" "+list2.size()+" ");
```

What is the result?

- A. 3533
- B. 3333
- C. 3535
- D. 5533

Given

String[] sa = { "charlie", "bob", "andy", "dave" };

Collections.sort(Arrays.asList(sa), null);

System.out.println(sa[0]);

What will the following code print when run?

- A. charlie
- B. andy
- C. dave
- D. It will throw a NullPointerException
- E. It will not compile

```
Given :
import java.util.*;

class MyStringComparator implements Comparator{
  public int compare(Object o1, Object o2)  {
    int s1 = ((String) o1).length();
    int s2 = ((String) o2).length();
    return s1 - s2;
  }
}

and
static String[] sa = { "d", "bbb", "aaaa" };
Select correct statements (2).
```

- A. This is not a valid Comparator implementation.
- B. Arrays.binarySearch(sa, "cc", new MyStringComparator()); will return -2.
- C. Arrays.binarySearch(sa, "c", new MyStringComparator()); will return 0.
- D. Arrays.binarySearch(sa, "c", new MyStringComparator()); will return -1.
- E. Arrays.binarySearch(sa, "c", new MyStringComparator()); will throw an exception.

```
Which of the following are valid implementations of java.util.Comparator? (choose 2)
    A. Comparator<Integer> cin = new Comparator<Integer>(){
 public int compareTo(Integer i1, Integer i2){
       return i1 - i2;
 }
};
    B. var cin = new Comparator<Integer>(){
 public int compare(Integer i1, Integer i2){
       return i1 - i2;
}
};
   C. var cin = new Comparator<Integer>(){
 public int compareTo(Integer i1, Integer i2){
       return i1 - i2;
 }
};
    D. Comparator<Integer> cin = new Comparator<?>(){
  public int compare(Integer i1, Integer i2){
       return i1 - i2;
   }
};
    E. var cin = new Comparator<Integer>(){
   public int compare(Integer i1, Integer i2){
       return i1.compareTo(i2);
}
```

};

What will the following code print?

```
var a = new int[]{ 1, 2, 3, 4, 5};
var b = new int[]{ 1, 2, 3, 4, 5, 3};
var c = new int[]{ 1, 2, 3, 4, 5, 6};
int x = Arrays.compare(a, c);
int y = Arrays.compare(b, c);
System.out.println(x+" "+y);
```

- A. -1 -1
- B. 11
- C. -1-3
- D. 13

What will the following code print when run?

```
Deque<Integer> d = new ArrayDeque<>();
d.push(1);
d.push(2);
d.push(3);
System.out.print(d.remove()+" ");
System.out.print(d.peek()+" ");
System.out.print(d.size());

A. 3 2 1
B. 1 2 2
C. 3 2 2
```

D. 131