Given:

```
    import java.util.*;
    public class Alpha {
    public static void main(String args []) {
    ArrayList< Object > x1= new ArrayList < Object> ();
    alphaM(x1);
    }
    public static void alphaM(List < Object > list) {
    }
    }
    }
```

What will be the result?

Please select:

- A. Code will compile successfully.
- B. Compilation will fail due to error on line 4.
- C. Compilation will fail due to error on line 5.
- D. Exception will be thrown at runtime.

```
Given:
  public class Basket<E> {
      private E element;
      public void setElement(E element) {
           this.element = element;
      public E getElement() {
           return element;
 class Fruit { }
 class Apple extends Fruit { }
What is the result of compiling the following code?
1. Basket<Fruit> basket = new Basket<>();
basket.setElement(new Apple());
3. Apple apple = basket.getElement();
Please select:

    A. The code compiles and runs successfully with no output

 B. The code gives compiler error at line 1
 C. The code gives compiler error at line 2
 On The code gives compiler error at line 3
```

```
Given:
 public class Basket<E> {
       private E element;
       public void setElement(E element) {
           this.element = element;
      public E getElement() {
           return element;
 class Fruit { }
 class Apple extends Fruit { }
 class Orange extends Fruit { }
What is the result of compiling the following code?
1. Basket<Fruit> basket = new Basket<>();
basket.setElement(new Apple());
3. Orange orange = (Orange) basket.getElement();
Please select:

    A. The code compiles and runs successfully with no output

    B. The code gives compiler error at line 1

 C. The code throws exception at line 2
 D. The code throws exception at line 3
```

```
Given the following code:
3. import java.util.*;
          4. public class ListProvider {
          5. public void takeList(List<? extends String> list) {
                    6. // insert code here
          7.}
8.}
Which three code fragments, inserted independently at line 6, will compile? (Choose three options.)
Please select:
 A. list.add("foo");
     B. Object o = list;
    C. String s = list.get(0);
     D. list = new ArrayList<>();
    E. list = new ArrayList<Object>();
```

```
Given:
 //insert code here ....line 11
 private N less, more;
 public N getLess() { return less; }
  public N getMore() { return more; }
  public void add(N added) {
      if (less == null || added.doubleValue() < less.doubleValue())
         less = added:
      if (more == null || added.doubleValue() > more.doubleValue())
         more = added;
Which two, inserted at line 11, will allow the code to compile?
(Choose two options.)
Please select:
 A. public class LessMore<?> {
    B. public class LessMore<? extends Number> {
    C. public class LessMore<N extends Object> {
    D. public class LessMore<N extends Number> {
    E. public class LessMore<? extends Object> {
    F. public class LessMore<N extends Integer> {
```

```
Given:
    import java.util.*;
    public class X {
3.
         public static void main(String [ ] args) {
4.
              //insert code here
5.
6.
         public static void foo(List<Object> list) {
7.
8. }
Which block of code inserted at line 4, will allow the code to compile?
(Choose two options.)
Please select:
 A. ArrayList<String> x1 = new ArrayList<String>(); foo(x1);
    B. ArrayList<Object> x2 = new ArrayList<String>(); foo(x2);
    C. ArrayList<Object> x3 = new ArrayList<Object>(); foo(x3);
    D. ArrayList x4 = new ArrayList(); foo(x4);
```

```
Given:
    import java.util.*;
    public class ListOper {
5.
         public void editList(List<? extends String> list) {
              // insert code here
6.
7.
8. }
Which three code fragments, inserted independently at line 6, will compile?
(Choose three options.)
Please select:
    A. list.add("foo");
     B. Object o = list;
    C. String s = list.get(0);
     D. list = new ArrayList();
    E. list = new ArrayList();
```

```
Given:
 import java.util.*;
 public class Hancock {
      // insert code here Line 5
       list.add("smith");
Which two code fragments, inserted independently at line 5, will compile without warnings?
(Choose two options.)
Please select:
    A. public void addStrings(List list) {
    B. public void addStrings(List<String> list) {
    C. public void addStrings(List<? super String> list) {
    D. public void addStrings(List<? extends String> list) {
```

```
Given:
public class Box<T> {
    // T stands for "Type"
    private T t;
     public void add(T t) {
         this.t = t;
     public T get() {
          return t;
Which type used instead of T to substitute the generics will not compile?
Please select:
 A. String
 O B. boolean
 C. Float
 D. Integer
```