Given:

```
 3. public class Circles {
 4.          public static void main(String[] args) {
 5.                     int[] ia = {1,3,5,7,9};
 6.                     for(int x : ia) {// x= 1,3,5,7,9
 7.                           for(int j = 0; j < 3; j++) {// j = 0,1
 8.                                 if(x > 4 && x < 8) continue;
 9.                                 System.out.print(" " + x);//1 1 3 3 9 9
10.                                 if(j == 1) break;
11.                                 continue;
12.                           }
13.                           continue;
14.                     }
15.         }
16. }
```

What is the result?

A. 1 3 9
B. 5 5 7 7
C. 1 3 3 9 9
D. 1 1 3 3 9 9
E. 1 1 1 3 3 3 9 9 9
F. Compilation fails

Answer: D

Given:

```
 3.   public class OverAndOver {
 4.               static String s = "";
 5.               public static void main(String[] args) {
 6.                     try {
 7.                           s += "1";// 1
 8.                           throw new Exception();
 9.                     } catch (Exception e) { s += "2"; // 12
10.                     } finally {
                              s += "3"; // 123
                              doStuff(); //java.lang.ArithemticException
                              s += "4";
11.                     }
12.                     System.out.println(s);
13.         }
14. static void doStuff() { int x = 0; int y = 7/x;
}//java.lang.ArithmeticException
15. }
```

What is the result?

A. 12
B. 13
C. 123
D. 1234
E. Compilation fails
F. 123 followed by an exception
G. 1234 followed by an exception
H. An exception is thrown with no other output

Answer: H

Given:

```
 3. public class Wind {
```

```
 4.         public static void main(String[] args) {
 5.               foreach:
 6.                     for(int j=0; j<5; j++) {// j = 0,1,2,3
 7.                           for(int k=0; k< 3; k++) {// k = 0,1
 8.                                 System.out.print(" " + j);// 0 1 1 1 2 3 3
 9.                                 if(j==3 && k==1) break foreach;
10.                                 if(j==0 || j==2) break;
11.                           }
12.                     }
13.         }
14. }
```

What is the result?

A. 0 1 2 3
B. 1 1 1 3 3
C. 0 1 1 1 2 3 3
D. 1 1 1 3 3 4 4 4
E. 0 1 1 1 2 3 3 4 4 4
F. Compilation fails

Answer: C

Given:

```
 3. public class Gotcha {
 4.   public static void main(String[] args) {
 5.         // insert code here
 6.
 7. }
 8.   void go() {
 9.         go();
10.    }
11. }
```

And given the following three code fragments:

```
I.   new Gotcha().go();
II.  try { new Gotcha().go(); }
      catch (Error e) { System.out.println("ouch"); }
III. try { new Gotcha().go(); }
      catch (Exception e) { System.out.println("ouch"); }
```

When fragments I - III are added, independently, at line 5, which are true? (Choose all that apply.)

A. Some will not compile
B. They will all compile
C. All will complete normally
D. None will complete normally
E. Only one will complete normally
F. Two of them will complete normally

Answer: B,E(option ii will be completed properly)

Q>
Given:

```
import java.io.*;
 1. public class Frisbee {
 2.   // insert code here
 3.   int x = 0;
 4.   System.out.println(7/x);
 5. }
 6. }
```

And given the following four code fragments:
I. public static void main(String[] args) {
II. public static void main(String[] args) throws Exception {
III. public static void main(String[] args) throws IOException {
IV. public static void main(String[] args) throws RuntimeException {

If the four fragments are inserted independently at line 2, which are true? (Choose all that apply.)
A. All four will compile and execute without exception
B. All four will compile and execute and throw an exception
C. Some, but not all, will compile and execute without exception
D. Some, but not all, will compile and execute and throw an exception
E. When considering fragments II, III, and IV, of those that will compile, adding a try/catch
block around line 6 will cause compilation to fail.

i,ii,iii,iv will compile and at the runtime throws ArithmeticException.

Answer:: B

Given:
```
 2. class MyException extends Exception { }//MyException is a
checkedException(partially checked one) only.
 3. class Tire {
 4.   void doStuff() { }
 5. }
 6. public class Retread extends Tire {
 7.                public static void main(String[] args) {
 8.                          new Retread().doStuff();
 9.               }
10.               // insert code here
11.               System.out.println(7/0);//ArithmeticException(uncheckedException)
12.   }
13. }
```
And given the following four code fragments:
I. void doStuff() {
II. void doStuff() throws MyException {
III. void doStuff() throws RuntimeException {
IV. void doStuff() throws ArithmeticException {

When fragments I - IV are added, independently, at line 10, which are true? (Choose all that apply.)
A. None will compile
B. They will all compile
C. Some, but not all, will compile
D. All of those that compile will throw an exception at runtime
E. None of those that compile will throw an exception at runtime
F. Only some of those that compile will throw an exception at runtime

i   valid
ii   CE
iii valid
iv valid

Answer: C,D