

### Pregunta 1

Given:

```
public static void main(String[] args) {  
  
    Device d1 = new Device(1);  
  
    try(d1){  
  
        //do some thing with d1  
  
    }  
  
}
```

Identify correct statement(s).

- A. Device should extend AutoCloseable and override close() method.
- B. Device should implement Closeable and override close() method.
- C. Device should implement Closeable and override autoClose() method.
- D. Device should implement AutoCloseable and override autoClose() method.
- E. Device should implement AutoCloseable and override close() method.**
- F. Device should extend AutoCloseable and override autoClose() method.

## Pregunta 2

What will the following code print when compiled and run?

```
public class Device implements AutoCloseable{

    boolean open = false;

    int index;

    public Device(int index){

        this.index = index;

        open = true;

    }

    public void write() throws IOException{

        throw new RuntimeException("Can't write!");

    }

    public void close(){

        open = false;

        System.out.print("Device closed "+index);

    }

    public static void main(String[] args) {

        Device d1 = new Device(1);

        try(d1;

            Device d2 = new Device(2);

            Device d3 = new Device(3)){

                d2.write();

                d1.close();

            }catch(Exception e){

                System.out.print("Got Exception "+e.getMessage());

            }

        }
```

}

}

- A. Device closed 3 Device closed 2 Got Exception Can't write!
- B. Device closed 2 Device closed 3 Got Exception Can't write!**
- C. Device closed 1 Device closed 2 Device closed 3 Got Exception Can't write!
- D. Device closed 1 Device closed 3 Device closed 2 Got Exception Can't write!
- E. Device closed 3 Device closed 2 Device closed 1 Got Exception Can't write!**

### Pregunta 3

Given the following exception classes:

```
class MyException extends Exception{}
```

```
class MyException1 extends MyException{}
```

```
class MyException2 extends MyException{}
```

```
class MyException3 extends MyException2{}
```

and the following code:

```
try{  
    //code that could potentially throw any of the above mentioned exceptions  
}
```

INSERT CODE HERE

Which of the following options can be inserted in the above code?

- A. `catch(MyException|MyException3 e){ }`
- B. `catch(MyException3 me3){ }`  
`catch(Exception e){ }`
- C. `catch(MyException2 me2){ }`  
`catch(MyException3 me3){ }`
- D. `catch(Throwable t){ }`  
`catch(MyException3 me3){ }`
- E. `catch(MyException|MyException1|MyException2|MyException3 e){ }`

#### Pregunta 4

Given:

```
public static void main(String[] args) {  
    try (Reader reader1 = new FileReader("File1.txt");  
        Reader reader2 = new FileReader("File2.txt");  
        Reader reader3 = new FileReader("File3_txt")) {  
  
        } catch (IOException ex) {  
            Logger.getLogger(Main.class.getName()).log(Level.SEVERE, null, ex);  
        }  
    // Line 1  
    System.out.println("Done");  
}
```

When run and all three files exist, what is the state of each reader on Line 1?

- A. All three readers are still open.
- ☒ B. All three readers have been closed.
- C. The compilation fails.
- D. Only reader1 has been closed.