

Preguntas tipo de examen

Pregunta 1

Given the following interface:

```
public sealed interface Prints permits M1,M2{}
```

What of the following definitions are correct?

- A. sealed class M1 implements Prints{}
- non-sealed interface M2 extends Prints{}
- B. non-sealed interface M1 extends Prints{}**
- final class M2 implements Prints{}**
- C. final class M1 implements Prints{}
- non-sealed interface M2 implements Prints{}
- D. final interface M1 extends Prints{}
- non-sealed interface M2 extends Prints{}

Pregunta 2

What is true about sealed class? (choose two)

- A. sealed class and permits classes must be in the same module
- B. sealed class and permits classes must be public
- C. sealed class must not have a constructor
- D. sealed class can extends another class
- E. sealed class can be final

Pregunta 3

Given:

```
interface Principal{  
    int id();  
}  
  
sealed class Person implements Principal permits Student, Teacher {  
    public int id(){  
        return 0;  
    }  
}  
  
record Student(int id, String subject) extends Person {}  
  
sealed class Teacher extends Person{}
```

¿Why doesn't compile the above code? (choose 2)

- A. Sealed class can't implement an interface
- B. Sealed class must be declared abstract
- C. A record can't extends a class
- D. Teacher class must specific a list of permitted classes

Pregunta 4

Given:

```
sealed class C1 { //Line 1
    sealed class C2 extends C1 permits C3{ //Line 2
    }
    final class C3 extends C2{ //Line 3
    }
    class C4 extends C3{ //Line 4
    }
    void method() {
        C1 c=new C3(); //Line 5
    }
}
```

Where is the compilation fail?:

A. Line 1

B. Line 2

C. Line 3

D. Line 4

E. Line 5

