**Pregunta 1**

Which of the following statements are true?

1. A nested class may be declared static
2. Local method class may be declared public.
3. Anonymous inner class may be declared public.
4. Anonymous inner class may extend an abstract class.

**Pregunta 2**

Given:

public class Main {

class Student{ //1

String name;

Student(String name){ //2

this.name=name;

}

}

public static void main(String[] args) {

var student=new Student("Peter"); //3

}

}

Which two independent changes will make the Main class compile? (Choose two.)

A. Move the entire Student class declaration to a separate Java file, Student.java.

B. Change line 2 to public Student(String classname).

C. Change line 1 to public class Student {.

D. Change line 3 to Student student = new Student(“Biology”);.

E. Change line 1 to static class Student {.

**Pregunta 3**

Given:

enum Color implements Serializable{

R(1), G(2), B(3);

int n;

public Color(int n){

this.n=n;

}

}

What action ensures successful compilation?

A. Replace public Color(int c) with private Color(int c)

B. Replace int c; with private int c;

C. Replace int c; with private final int c;

D. Replace enum Color implements Serializable with public enum Color

E. Replace enum Color with public enum Color

**Pregunta 4**

Given the following:

public class Test2 {

enum Posicion{

NORTE(2), SUR(1), ESTE(5), OESTE(3);

int s;

Posicion(int s){

this.s=s;

}

}

public static void main(String[] args) {

Posicion[] pos= {Posicion.NORTE,Posicion.ESTE,Posicion.SUR};

pos[1].s=3; //1

for(Posicion p:pos) {

System.out.print(p.name()+" ");

}

}

}

Which is the result?

1. it prints NORTE OESTE SUR
2. it prints NORTE ESTE SUR
3. ir prints nothing
4. compilation error in line 1

**Pregunta 5**

Complete the following code (choose two):

enum Direction {

NORTH, SOUTH, WEST, EAST

}

public class TestClass{

public static String getColor(Direction c){

INSERT CODE HERE

}

public static void main(String[] args) {

System.out.println(getColor(Direction.NORTH));

}

}

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | 1. return switch(c){     case NORTH, EAST -> "BLACK";   break;     case SOUTH, WEST -> "RED"; }; | | |  |  | | --- | --- | | |  | | --- | | 1. return switch(c){     case NORTH, EAST ->"BLACK";     case SOUTH, WEST -> "RED";     default -> "YELLOW"; }; | | | |  | | --- | | 1. switch(c){     case NORTH, EAST -> return "BLACK";     case SOUTH, WEST -> return "RED"; }; | | | | | |  | | --- | | 1. return switch(c){     case NORTH, EAST -> "BLACK"; }; | | | | | | | |  | | --- | | 1. return switch(c){     case NORTH, EAST -> { yield "BLACK"; }     case SOUTH, WEST -> { yield "RED"; } }; | | | | | | | | | |

**Pregunta 6**

Given:

**enum** Direction{

***X***(10),***Y***(20), ***Z***(30);

**int** inc;

Direction(**int** inc) {

**this**.inc=inc;

}

}

**public** **class** Test {

**static** **void** goDir(Direction dir) {

**switch**(dir) {

**case** ***X***:

System.***out***.println(dir.inc);

**break**;

**default**:

System.***out***.println(dir.inc);

}

}

**public** **static** **void** main(String[] args) {

*goDir*(/\*insert here\*/);

}

}

Which expression must be placed as goDir() parameter to print 30?

1. new Direction(Z)
2. new Direction(30)
3. Z
4. Direction.Z