

Preguntas resumen:

- Fundamentos del lenguaje
- Programación Orientada a Objetos
- Arrays y colecciones

Pregunta 1

Given:

```
public class Tester {  
    public static void main(String[] args) {  
        int x=0, y=6;  
        for(;x<y;x++,y--) { //line 1  
            if(x%2==0) {  
                continue;  
            }  
            System.out.println(x+"-"+y);  
        }  
    }  
}
```

What is the result?

A. 2-4

B. 0-6

1-5

2-4

C. 1-5

D. 1-5

2-4

E. Compilations fails due an error in line 1

F. 0-6

Pregunta 2

Given:

```
class Padre{  
    public List<Integer> mt(Set<CharSequence> data){...}  
}  
  
public class Hija extends Padre{  
  
}
```

Which two method definitions at line n1 in the Hija class compile? (Choose two.)

- A. `public List<Number> mt(Set<String> m) {...}`
- B. `public List<Integer> mt(Set<CharSequence> m) {...}`
- C. `public List<Integer> mt(TreeSet<String> m) {...}`
- D. `public List<Object> mt(Set<CharSequence> m) {...}`
- E. `public ArrayList<Integer> mt(Set<String> m) {...}`
- F. `public ArrayList<Number> mt(Set<CharSequence> m) {...}`

Pregunta 3

Which three initialization statements are correct?(Choose three.)

- A. `int[][][] e = {{1,1,1},{2,2,2}};`
- B. `short sh = (short)'A';`
- C. `float x = 1f;`
- D. `byte b = 10; char c = b;`
- E. `String contact# = "(+2) (999) (232)";`
- F. `int x = 12_34;`
- G. `boolean false = (4 != 4);`

Pregunta 4

Given:

```
List<Integer> lst1=new ArrayList<>(List.of(3,9,4));  
List<Integer> lst2=Collections.unmodifiableList(lst1);  
lst1.remove(0);  
System.out.println(lst1);  
System.out.println(lst2);
```

What is the output?

- A. [9,4]
[3,9,4]
- B. [3,9,4]
[3,9,4]
- C. [9,4]
[9,4]
- D. An exception is thrown at runtime

Pregunta 5

Given:

```
public class Tester {  
    public static void main(String[] args) {  
        char letter = 'b';  
        int i = 0;  
        switch(letter) {  
            case 'a':  
                i++;  
                break;  
            case 'b':  
                i++;  
            case 'c': | case 'd': //line 1  
                i++;  
            case 'e':  
                i++;  
                break;  
            case 'f':  
                i++;  
                break;  
            default:  
                System.out.print(letter);  
        }  
        System.out.println(i);  
    }  
}
```

Which is the result?

- A. b1
- B. 2
- C. b2
- D. 1
- E. b3
- F. 3
- G. The compilation fails due to an error in line 1.

Pregunta 6

Given:

```
public class Datas {  
    int aData;  
    int bData;  
    int cData;  
    int dData;  
    Datas(int a, int bData, int c, int dData) {  
        //line 1  
    }  
    int setCData(int c){  
        return c;  
    }  
    void setDDData(int dData){  
        this.dData=dData;  
    }  
}
```

Which two lines of code when inserted in line 1 correctly modifies instance variables? (Choose two.)

- A. setDDData(dData);
- B. setCData(c) = cData;
- C. bData = bData;
- D. aData = a;
- E. dData = setCData(c);

Pregunta 7

```
public class Super {  
    final int num; //line n1  
    public Super(int num) {  
        this.num=num;  
    }  
    final void method() {  
        System.out.println("Output from Super");  
    }  
}  
class Sub extends Super{  
    int num; //line n2  
    Sub(short num){ //line n3  
        super(num);  
    }  
    protected void method() { //line n4  
        System.out.println("Output from Sub");  
    }  
}
```

Which line of code results in a compilation error?

- A. line n1
- B. line n3
- C. line n2
- D. line n4