

Pregunta 1

Which statement about the following class is correct?

```
package mypg;  
  
import java.util.*;  
  
public class ThreadSafeList {  
  
    private List<Integer> data = new ArrayList<>();  
  
    public synchronized void addValue(int value) {  
  
        data.add(value);  
  
    }  
  
    public int getValue(int index) {  
  
        return data.get(index);  
  
    }  
  
    public int size() {  
  
        synchronized(ThreadSafeList.class) {  
  
            return data.size();  
  
        }  
  
    }  
  
}
```

- A. The code compiles and is thread-safe.
- B. The code compiles and is not thread-safe.**
- C. The code does not compile because of the size() method.
- D. The code does not compile because of the getValue() method.

Pregunta 2

Given

```
class Tarea implements Runnable{

    @Override

    public void run() {

        System.out.print("print ");

    }

}

public class Test {

    public static void main(String[] args) {

        Thread t1=new Thread(new Tarea());

        Thread t2=new Thread(new Tarea());

        t1.start();

        t1.run(); //line 1

        t2.start();

        t1.start(); //line 2

    }

}
```

Which one is correct?

- A. print print print
- B. print print
- C. Exception in line 1
- D. Exception in line 2**
- E. Compilation fails**

Pregunta 3

Which of the following statements are true?

- A. A synchronized method cannot call another synchronized method in its body
- B. Making a synchronized method recursive will cause a deadlock
- C. Only non-static member variables are accessible in a synchronized method
- D. A synchronized method cannot be executed simultaneously by more than one thread on the same object.
- E. A synchronized method cannot call a non-synchronized method in its body.