1. Write a Java code to implement **Thread safe LinkedList** Include below methods in your class LinkedList

```
public void addAtPosition(int index, int element){
}
public void removeAtPosition(int index, int element){
}
public int getFirst() {
}
public int getLast() {
}
public int size(){
}
```

## 2. Traffic Light Controlled Intersection:

There is an intersection of two roads. First road is road A where cars travel from North to South in direction 1 and from South to North in direction 2. Second road is road B where cars travel from West to East in direction 3 and from East to West in direction 4.

Refer this link: (1) Traffic Light Controlled Intersection - LeetCode