CODE:
```java
import java.util.ArrayList;
import java.util.Arrays;

class Main {
 final static String production = "A=Ab|c";
 final static String A = "A'";
 final static String eps = "eps";
 static ArrayList<String> alpha = new ArrayList<>();
 static ArrayList<String> beta = new ArrayList<>();

 static String[] getProductions(String s){
   String arr[] = s.split("\\||=");
   return arr;
 }

 static boolean checkLR(String arr[]){
   String lhs = arr[0];
   boolean bool = false;
   for(int j=1; j<arr.length; j++){
     if(lhs.charAt(0) == arr[j].charAt(0)){
       alpha.add(arr[j].substring(1));
       bool = true;
     }
     else{
       beta.add(arr[j]);
     }
   }
   return bool;
 }

 static void print(String s){
   System.out.println(s);
 }

 public static void main(String[] args) {
   String arr[] = getProductions(production);
```

```java
      print(Arrays.toString(arr));
      if(checkLR(arr)){
        print("Yes left recursion exists");
        for(int i=0; i<beta.size(); i++){
          print(arr[0] + "=" + beta.get(i) + A);
        }
        String s = A+"=";
        for(int i=0; i<alpha.size(); i++){
          s = s + alpha.get(i) + A + "|";
        }
        print(s + eps);
      }
      else{
        print("No");
      }
  }
}
```

OUTPUT:

```
java version "1.8.0_31"
Java(TM) SE Runtime Environment (build 1.8.0_31-b13)
Java HotSpot(TM) 64-Bit Server VM (build 25.31-b07, mixed mode)
A=Ab|c
Yes left recursion exists.
A=cA'
A'=bA'|eps
```

```
java version "1.8.0_31"
Java(TM) SE Runtime Environment (build 1.8.0_31-b13)
Java HotSpot(TM) 64-Bit Server VM (build 25.31-b07, mixed mode)
A=Bb|c
No left recursion.
```