Next Greatest to Left

import java.util.\*;

public class MyClass {

public static void main(String args[])

{

int[] arr={1,2,4,3};

System.out.println(ngr(arr));

}

public static List<Integer> ngr(int[] arr)

{

Stack<Integer> stack=new Stack();

int n=arr.length;

List<Integer> result=new ArrayList<>();

for(int i=0 ;i<n ;i++)

{

if(stack.size()==0)

{

result.add(-1);

}

else if(stack.size()>0 &&stack.peek()>=arr[i])

{

result.add(stack.peek());

}

else if(stack.size()>0 && stack.peek()<=arr[i])

{

while(stack.size()>0 && stack.peek()<=arr[i])

{

stack.pop();

}

if(stack.size()==0)

{

result.add(-1);

}

else{

result.add(stack.peek());

}

}

stack.add(arr[i]);

}

return result;

}

}