Imagen de Unique Path II Ejercicio1

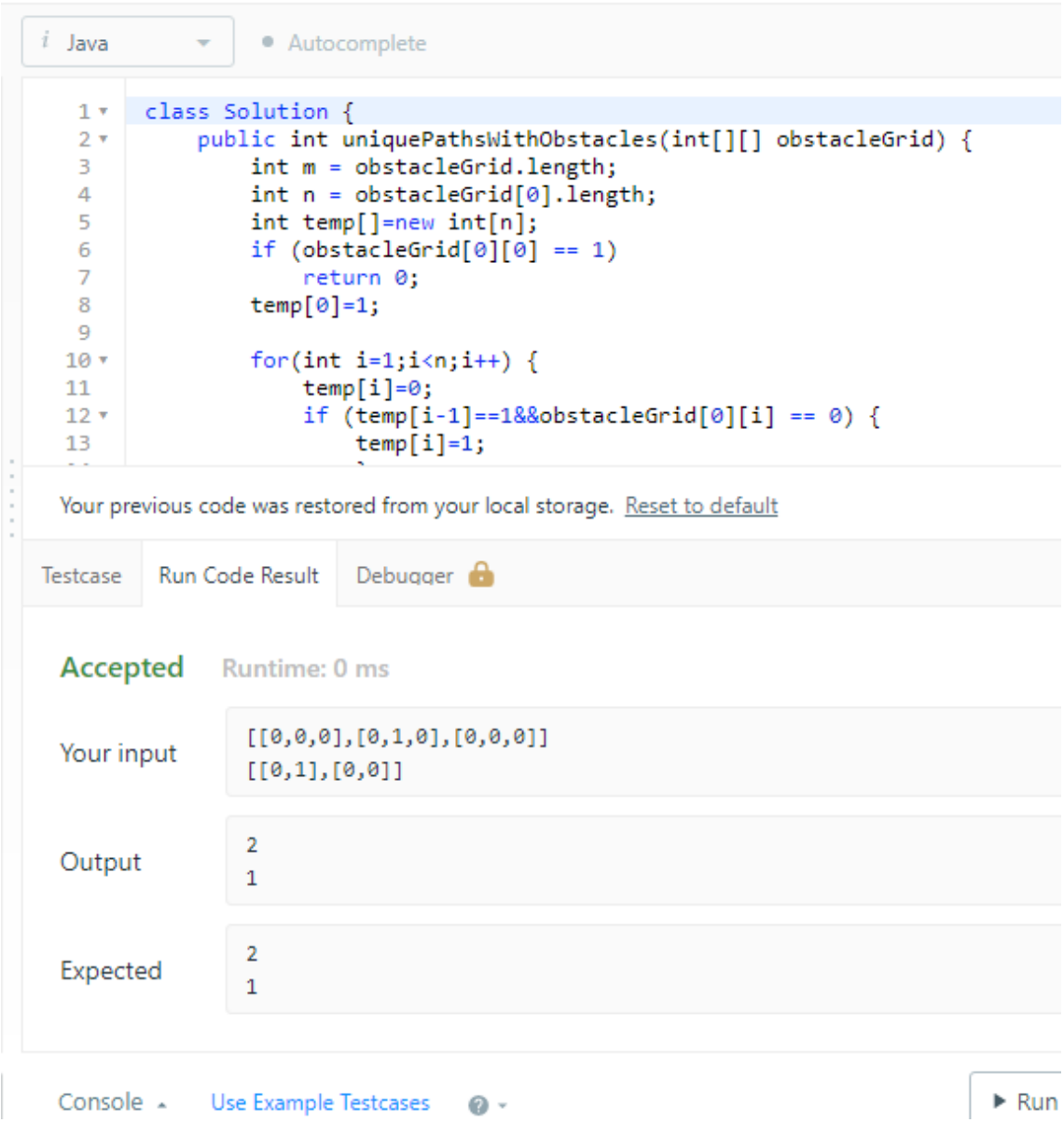


Imagen Book Shop Ejercicio 2

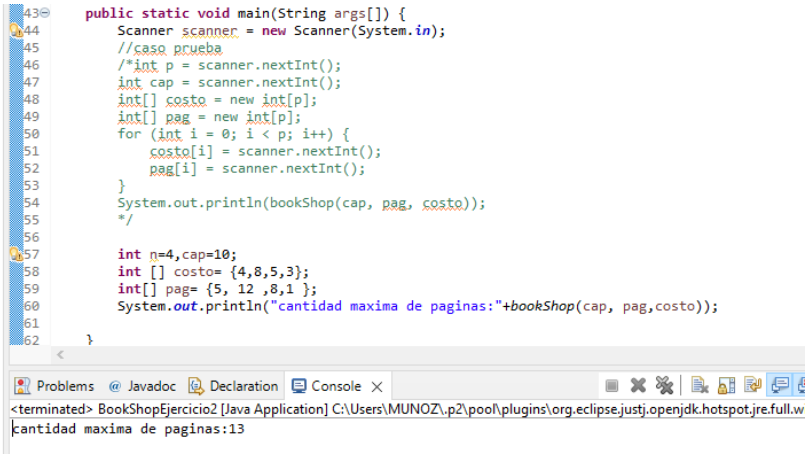
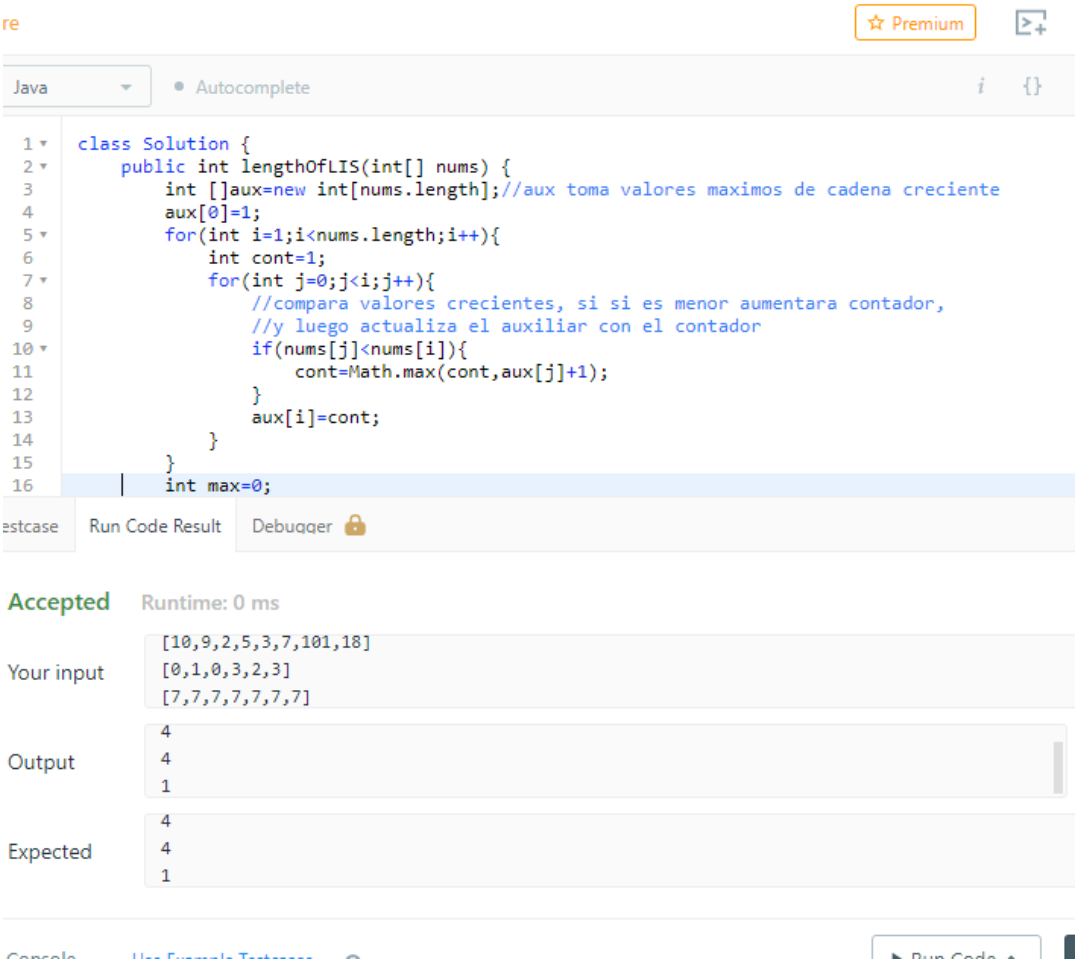


Imagen Number Long Ejercicio 3



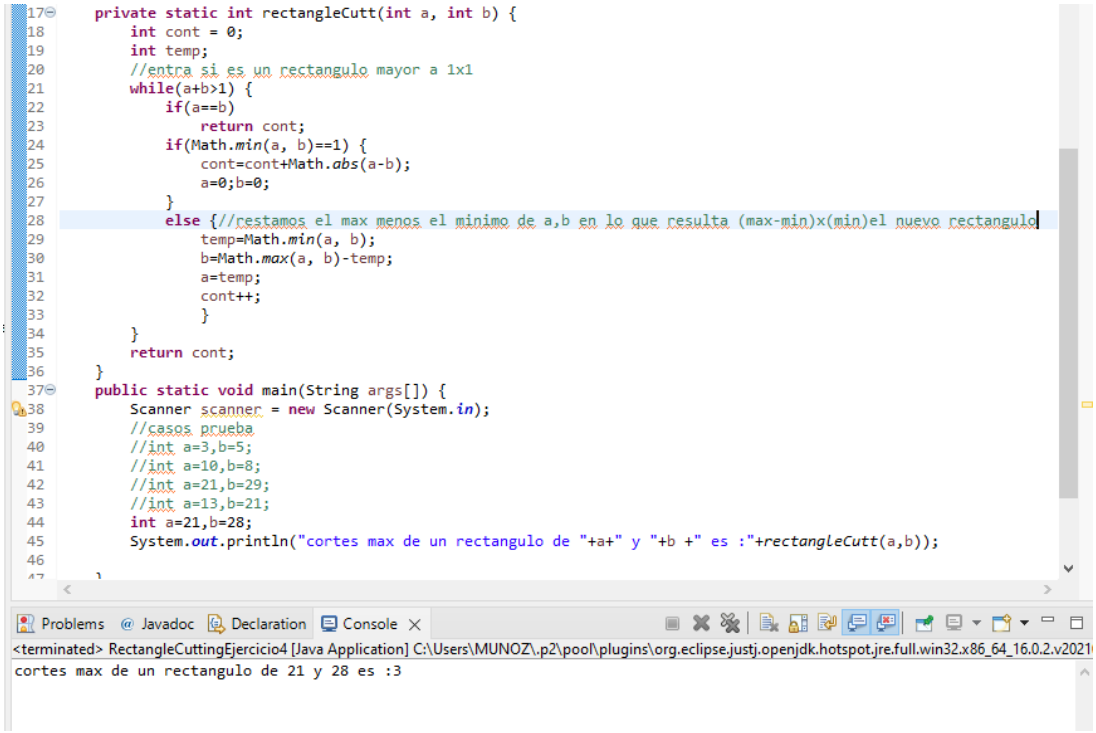
```java
class Solution {
    public int lengthOfLIS(int[] nums) {
        int []aux=new int[nums.length];//aux toma valores maximos de cadena creciente
        aux[0]=1;
        for(int i=1;i<nums.length;i++){
            int cont=1;
            for(int j=0;j<i;j++){
                //compara valores crecientes, si si es menor aumentara contador,
                //y luego actualiza el auxiliar con el contador
                if(nums[j]<nums[i]){
                    cont=Math.max(cont,aux[j]+1);
                }
                aux[i]=cont;
            }
        }
        int max=0;
```

Run Code Result | Debugger

Accepted Runtime: 0 ms

Your input	[10,9,2,5,3,7,101,18] [0,1,0,3,2,3] [7,7,7,7,7,7,7]
Output	4 4 1
Expected	4 4 1

Imagen Rectangle Cutting Ejercicio 4



```java
    private static int rectangleCutt(int a, int b) {
        int cont = 0;
        int temp;
        //entra si es un rectangulo mayor a 1x1
        while(a+b>1) {
            if(a==b)
                return cont;
            if(Math.min(a, b)==1) {
                cont=cont+Math.abs(a-b);
                a=0;b=0;
            }
            else {//restamos el max menos el minimo de a,b en lo que resulta (max-min)x(min)el nuevo rectangulo
                temp=Math.min(a, b);
                b=Math.max(a, b)-temp;
                a=temp;
                cont++;
                }
        }
        return cont;
    }
    public static void main(String args[]) {
        Scanner scanner = new Scanner(System.in);
        //casos prueba
        //int a=3,b=5;
        //int a=10,b=8;
        //int a=21,b=29;
        //int a=13,b=21;
        int a=21,b=28;
        System.out.println("cortes max de un rectangulo de "+a+" y "+b +" es :"+rectangleCutt(a,b));
```

Problems | Javadoc | Declaration | Console

```
<terminated> RectangleCuttingEjercicio4 [Java Application] C:\Users\MUNOZ\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_16.0.2.v2021
cortes max de un rectangulo de 21 y 28 es :3
```

Imagen Maximal Square Ejercicio 5