

```

import java.util.Scanner;

public class DynamicProgramming {
    public static void main(String[] args) {
        Scanner s=new Scanner(System.in);
        int n=s.nextInt(),t,inc=0,exc=0;
        int[] num=new int[n];
        for(int i=0;i<n;i++)
        {
            num[i]=s.nextInt();
            if(i==0)
            {
                inc=num[i];
                exc=0;
            }
            else
            {
                t=inc;
                inc=Math.max(inc, exc+num[i]);
                exc=t;
            }
        }
        System.out.println(inc);
    }
}

```