**G.MOHIT** 

## Roll Number

KUB23CSE039

# **EXPERIMENT**

### Title

ADVACED SUB ARRAY PROBLEM

#### Description

You are competing in a basketball contest. In this contest the score for each successful shot depends on both the distance from the basket and the player's position. The ball is shot N times, successfully. You are given an array A containing the distance of a player from basket for N shots. The index of array represents the position of the player. Score is calculated by multiplying the position with the distance from the basket.

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Your task is to find and return an integer value, representing the maximum possible score you can achieve by choosing a contiguous subarray of size K from the given array.

#### Note:

- \* A subarray is a contiguous part of array.
- \* Assume 1 based indexing.
- \* The array contains both negative and positive values.
- \* Assume the player is standing on a cartesian plane.

# **Input Format**

- input1:An integer value N representing the number of shots made by the player
- input2 : An integer K representing the size of subarray
- input3 : An array of integers

## Sample Input

5

2

12345

### **Sample Output**

14

## Source Code:

```
def Sub_Array(arr,k,n):
        mx=0
        for i in range(n):
            sub=arr[i:i+k]
            j=1
            s=0
            for 1 in sub:
                s+=(1*j)
                j+=1
                if s>mx:
                    mx=s
        return mx
    n=int(input())
    k=int(input())
    arr=list(map(int,input().split()))
    print(Sub_Array(arr,k,n))
RESULT
  5 / 5 Test Cases Passed | 100 %
```