



STUDENT REPORT

DETAILS

Name

PALLAVI G K

Roll Number

KUB23CSE101

EXPERIMENT

Title

SUB ARRAY WITH MAX SUM

Description

You are given a list of integers, and your task is to find the subarray with the maximum sum. Write a function or method to solve this problem efficiently and return the maximum sum.

Input:

n: the no of elements in the array

nums (List of integers): A list of integers ($1 \leq \text{len}(\text{nums}) \leq 10^5$)

Sample input:

8

-1 2 3 10 -4 7 2 -5

Sample output:

20

Explanation:

The max subarray sum is 20. The subarray is [2,3,10,-4,7,2]

Source Code:

```
n=(int(input()))
arr=list(map(int,input().split()))
maxsum=float('-inf')
for i in range(len(arr)):
    currsum=0
    for j in range(i,len(arr)):
        currsum+=arr[j]
        if currsum>maxsum:
            maxsum=currsum
print(maxsum)
```

RESULT

KUB

SE10

B23C

11 KU
SE10

CSE1
B23C

UB22
01 K

101 K
3C