

# STUDENT REPORT

## DETAILS

Name

KOTHAPELLY SAI SIDHARTHA

Roll Number

2103A52091

## EXPERIMENT

Title

KADANE'S ALGORITHM

Description

Given an array **Arr[]** of **N** integers. Find the contiguous sub-array(containing at least one number) which has the maximum sum and return its sum.

Input:

N = 5

Arr[] = {1,2,3,-2,5}

Output:

9

Source Code:

```
def sarr(li):
    msum=li[0]
    csum=li[0]
    for i in range(1,len(li)):
        csum=max(csum+li[i],li[i])
        msum=max(msum,csum)
    return msum
n=int(input())
li=list(map(int,input().split()))
msum=sarr(li)
print(msum)
```

## RESULT

2 / 2 Test Cases Passed | 100

## VIVA RESPONSES

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