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Tech. Leto 1 Let



STUDENT REPORT

DETAILS

Name

G SIDDESHWAR

Roll Number

TEMPBTech-ECE011

EXPERIMENT

Title

ARDUINO

Description

Tom is an Arduino Programmer. He has designed a program to run his robocar on a horizontal number line. Initially, the car is parked at: 0. Given an array A of N integers which can be A. B. C... the robocar runs as follows as per the designed program

First the robocar moves A units in specified direction(right in case the integer is positive and left if the integer is negative).

Then robocar first moves A units and then B units in a specified direction.

In the next step, the robocar moves A units. B units, and then C units in a specified direction.

TEMP BTECH, ECHO 1 TEMP BTECH, E

This process keeps on repeating as per the number of integers in the sequence..

Your task is to find and return an integer value, representing the farthest coordinate reached by the robocar from the beginning to the end of the process.

Sample Input:

1 -2 3 4

Sample Output:

6

TEMP BTech. ECEOT

Source Code: ECEO 1 TEMP BT ech. ECO 1 TEMP BT ech. ECEO 1 TEMP BT ech. ECO ECEO 1 TEMP BT CH. ECEO 1 TEMP BT TEMP8 Tech. ECEO 1 TEMP8 Tech. ECEO 1 TEM

Bec

(EMPBTC)

```
def farthest_coordinate(arr):
    current_position = 0
    farthest_distance = 0
    for i in range(len(arr)):
        # Move according to the current sequence of movements
        for j in range(i + 1):
            current_position += arr[j] # Move A, then A+B, then A+B+C, etc.
        # Update the farthest distance reached
        farthest_distance = max(farthest_distance, abs(current_position))
    return farthest_distance
# Sample Input
arr = list(map(int, input().strip().split()))
# Get the result
result = farthest_coordinate(arr)
print(result) # Output: 6
                                                                                                              Techniteteon
```

RESULT

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0 / 5 Test Cases Passed | 0 %