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## STUDENT REPORT

# DETAILS

#### Name

SIDIGONDE BHARATH KUMAR

#### Roll Number

TEMPBTech-ECE004

#### **EXPERIMENT**

**Title** 

ARDUINO

### ECEODA TEL 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.

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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

Source Code: ECEOOA TEMPBTECH. ECEOOA TEMPBTECH. ECEOOA TEMPB ECEOOA TEMPBTECH. ECEOOA TEMPBT TEMP BTech. ECEDO A TEMP BTech. ECEDO A TEMP BTech. ECEDO A TEMP BTech. JE. APBTech, ECEOOATEN

```
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
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```

RESULT

0 / 5 Test Cases Passed | 0 %