Logo STUDENT REPORT 30030 DETAILS J JAYALAKSHMI 3BRT 2000 030 Roll Number 3BR23CD030 EXPERIMENT Title ARDUINO 3827300 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: O. 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 1300030 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. 30 3BR This process keeps on repeating as per the number of integers in the sequence.. Your task is to find and retum an integer value, representing the farthest coordinate reached by the robocar from the beginning to the end of the process. ,8R23CO5 Sample Input: 1 -2 3 4 Sample Output: 6 Source Code: 030 def find_farthest_coordinate(arr): $current_position = 0$ $max_distance = 0$ for i in range(len(arr)): current_position += arr[i] max_distance = max(max_distance, abs(current_position)) return max_distance arr = list(map(int,input(). split())) result = find_farthest_coordinate(arr) print(result)

RESULT

3821

38× 1003

203

300386

38200,2

03