```
1038R13CD01038R13CD01
                                                                      STUDENT
        DETAILS
Name
             PRIYANKA A
           Roll Number
             3BR23CD070
         EXPERIMENT
        Title 3500
           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.
                                                                                                                                                                   J703BR23C
              In the next step, the robocar moves A units. B units, and then C units in a specified direction.
              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.
              Sample Input:
              1-234
              Sample Output:
           Source Code
              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
                    = list(map(int,input(). split()))
              result = find_farthest_coordinate(arr)
              print(result)
         RESULT
           5 / 5 Test Cases Passed | 100 %
   3BR2-
```