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:

```
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** 

38k. 300, 35c. 38kr. 300, 35 35c. 38k