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

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