```
def count_return_to_origin(N, A):
    position = 0
    return_count = 0

for move in A:
    position += move
    if position == 0:
        return_count += 1

    return return_count

N = int(input())
A = list(map(int,input().strip().split()))[:N]
    print(count_return_to_origin(N,A))

RESULT

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