05 Hr **58** Min **32** Sec

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ONLINE EDITOR (C)

Even Odd

+ Problem Description

— Constraints

$0 \leq low \leq high \leq 10^9$

$K \leq 10^6$.

— Input

First line contains two space separated integers denoting low and high respectively

Second line contains a single integer K.

— Output

Print a single integer denoting the number of all such permutations

— Time Limit

1

— Examples

Example 1

Input

4 5

3

Output

4

Explanation

There are 4 valid permutations viz. {4, 4, 4}, {4, 5, 5}, {5, 4, 5} and {5, 5, 4} which sum up to an even number

Example 2

Input

1 10

2

Output

50

Explanation

There are 50 valid permutations viz. {1,1}, {1, 3},... {1, 9} {2,2}, {2, 4},... {2, 10} . . . {10, 2}, {10, 4},... {10, 10}. These 50 permutations, each sum up to an even number.

Upload Solution [Question : C]

☐ I, **abhijeet singh** confirm that the answer submitted is my own.   ☐ Took help from online sources (attributions)

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