## Add To Even (Part B)

You are given a list of $n$ positive integers a_1, a_2, ..., a_n and an integer k
Output the number of unique pairs of integers in the list such that that they add to an even number and the two numbers are at most $k$ numbers away from each other in the list. i.e. the number of pairs ( $\mathrm{i}, \mathrm{j}$ ) such that $\mathrm{i}<\mathrm{j}, \mathrm{a} \_\mathrm{i}+\mathrm{a} \mathrm{a}_{\mathrm{j}}$ is even and $\mathrm{j}-\mathrm{i} \leq \mathrm{k}$.

NOTE: Two pairs are unique to each other if and only if at least one of the indices of the numbers of the first pair is different to the second pair.

## Input

Your first line will contain two space-separated integers n and k .
Your second line will contain n space-separated integers representing a_1, a_2, ..., a_n
$1 \leq k<n \leq 100,000$

## Output

Your first and only line of output should contain a single integer representing the number of unique pairs of integers with the even sum and are only k indices apart in the original list.

## Example

## Input 1

31
111
Output 1
2
Input 2
64
212314294
Output 2
6

