

03 Hr 08 Min 10 Sec

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## Coding Area

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ONLINE EDITOR (B)

### Count Pairs

#### — Problem Description

Given an array of integers A, and an integer K find number of happy elements.

Element X is happy if there exists at least 1 element whose difference is less than K i.e. an element X is happy, if there is another element in the range  $[X-K, X+K]$  other than X itself.

#### — Constraints

$1 \leq N \leq 10^5$

$0 \leq K \leq 10^5$

$0 \leq A[i] \leq 10^9$

#### — Input

First line contains two integers N and K where N is size of the array and K is a number as described above

Second line contains N integers separated by space.

#### — Output

Print a single integer denoting the total number of happy elements.

#### — Time Limit

1

#### — Examples

Example 1

Input

6 3

5 5 7 9 15 2

Output

5

Explanation

Other than number 15, everyone has at least 1 element in the range  $[X-3, X+3]$ . Hence they are all happy elements. Since these five are in number, the output is 5.

Example 2

Input

3 2

1 3 5

Output

3

Explanation

All numbers have at least 1 element in the range  $[X-2, X+2]$ . Hence they are all happy elements. Since these three are in number, the output is 3.

Upload Solution [ Question : B ]

☐ I, **singam reddy** confirm that the answer submitted is my own.

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