## COMPUTADOR LOCO ...

ZS Coder performs encoding in a crazy team. If a word is entered into the system in an amount c of consecutive seconds, everything disappears wrote.

More formally, if you have written a word in the second A and then the next word in the second B , then if $(\mathrm{B}-\mathrm{A}) \leq \mathrm{c}$, the new word is added to the other words on the screen. If (B-A)> c, then everything on the screen is cleared (after the last word you typed appears on the screen).

For example, if $\mathrm{c}=5$ and written in the second words $1,3,8,14,19,20$, after the second 83 words will be displayed. After that, everything disappears in the second 13 because nothing has been written before the 5 seconds. In the second 14 and 19 two words are written, and finally, in the second 20, you write a word, and a total of 3 words remain on the screen.

Yes give the times when the ZS Coder typed words. Determine how many words remain in after having finished writing all the screen.

## SPANISH VERSION

## Input

The first line contains two integers $N$ and $C(1 \leq n \leq 100000,1 \leq c \leq 109)$ - the number of words typed ZS Coder and delayed crazy, respectively equipment.
The next line contains n integers $\mathrm{t} 1, \mathrm{t} 2, \ldots, \mathrm{tn}(1 \leq \mathrm{t} 1<\mathrm{t} 2<\ldots<\mathrm{tn} \leq 109)$, where ti denotes the second when ZS Coder writes the watchword i .

## Output

Print a single positive integer, the number of words that remain on the screen after all N words are written, in other words, in the second tn ..

## Example

## Input:

65
138141920
Output:
3
Input:
61
1357910

## Output:

2
NOTE:

