Bars of Gold

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	256 megabytes

The Programming Police find N bars of gold in the Cyber Criminals' lair. Each bar was stolen from a location denoted by an integer p_i between 1 and 5×10^9, inclusive. The Programming Police hire K trucks, each of which can hold an unlimited number of gold bars. However, each truck can only go to a single location. The Programming Police want to find out the maximum number of bars of gold that can be restored to their original locations.

Input

Line 1: N and K, separated by a space
Lines 2...N+1: On line $i + 1$, p_i denoting the original location of the ith bar of gold

Output

Line 1: The maximum number of bars of gold that can be restored to their original locations

Examples

standard input	standard output
5 10 1 529 39 10 879	5
6 3 657 58 9 182 9 19	4

Note

$1 \leq N \leq 100,000$
$1 \leq K \leq 100,000$
$1 \leq p_i \leq 5 * 10^9$