Problem C
Call for Problems, Round 2
Time limit: 1 second

The Call for Problems for the ICPC North America Qualifier (NAQ) has finished, and a number of problems were proposed. The judges voted on the difficulty of each problem. The NAQ this year will feature some number of problems. The NAQ wants to feature problems with as many unique difficulties of possible. Compute the maximum number of unique difficulties attainable.

Input

The first line of input contains two integers n and k ($1 \leq k \leq n \leq 50$). NAQ will use exactly k problems out of the n proposed.

Each of the next n lines contains a single integer d ($1 \leq d \leq 50$). These are the difficulties of the n problems proposed.

Output

Output a single integer, which is the maximum number of unique difficulties that the NAQ can feature.

Sample Input 1	Sample Output 1
20 19 43 4 19 27 34 7 12 34 44 36 38 38 39 34 30 35 44 47 39 5	15