

B. Frequency List

Given a list of numbers, the frequency of a value v is the number of times v occurs in the list. For each given list of numbers, compute the number of distinct frequencies.

Input

The first line contains the number T ($1 \leq T \leq 100$) giving the number of test cases. The first line of each test case contains n , the number of elements in the list ($1 \leq n \leq 100$). The next line contains a space-delimited list of n integers (each list element fitting in a 32-bit signed integer).

Output

For each test case output a line containing the number of distinct frequencies.

Sample Input/Output

Input	Output
6	3
6	1
1 2 2 3 3 3	1
1	2
1	1
6	4
1 1 1 1 1 1	
5	
2147483647 2147483647 2147483647 -2147483648 -2147483648	
10	
1 2 3 4 5 6 7 8 9 10	
10	
1 1 1 1 2 2 2 3 3 4	