**Problem A**

**Mean**

You are given a int[] elements . If the arithmetic mean of a non-empty subset of elements is between L and H , inclusive, the subset is considered "good". A subset of a int[] is obtained by removing 0 or more elements from the int[]. Return the number of "good" subsets.

**Input**

The input contains multiple test cases, until the end of file. Each test case is given in the following order:

* A single line containing L and H
* A single line containing the length of elements
* The elements of the array elements a single line separated by a single space

The elements array will contain between 1 and 36 elements, inclusive. Each element of the elements array will be between -25000000 and 25000000, inclusive. Each element will be distinct. L and H will each be between -25000000 and 25000000, inclusive. L will not be greater than H.

**Output**

For each test case, output the result in a single line.

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| **Sample Input**  2 6  3  10 1 3  -1 0  1  0  100 100  1  0  3 7  10  1 2 3 4 5 6 7 8 9 10 | **Sample Output**  4  1  0  949 |