

Problem L. Lower Algorithmics

Input file: *standard input*
Output file: *standard output*
Time limit: 4 seconds
Memory limit: 512 mebibytes

You are given a set A of integers from 1 to 1000 inclusive. Your task is to find the number of positive integers that can be represented as a sum of several elements of A , with number of summands being from ℓ to r inclusive. **Equal summands are allowed.** Note that each number is counted only once, even if it has several such representations.

Input

The first line of the input contains three space-separated integers: n , the number of elements in A ($1 \leq n \leq 1000$), followed by ℓ and r , the bounds on number of summands ($1 \leq \ell \leq r \leq 2000$). The second line contains n space-separated integers a_1, a_2, \dots, a_n ($1 \leq a_1 < a_2 < \dots < a_n \leq 1000$): the elements of the set A in increasing order.

Output

Output the number of integers that are representable as a sum of elements of A , with number of summands being between ℓ and r .

Examples

standard input	standard output
2 1 2 1 2	4
3 1 3 1 3 10	18
6 3 5 1 2 3 4 5 6	28