Given two sorted arrays of integers and an integer X. Find if there are a couple of elements in these two arrays whose sum is X.

The first line of input contains three integers N, M, X: the sizes of the first and second array and the required sum, respectively. It is known that $1 \leq N, M \leq 10^5$, $|X| < 20000$.

The second line of input contains N integers modulo not exceeding 10000, – the first array.

The third line of input contains M integers, modulo not exceeding 10000, – the second array.

In the output stream print a pair of numbers that specify the indices of the first and second arrays. The sum of the elements at these indices must be equal to X. Indexes are numbered from one. If there are several such pairs, print any. If there is no such pair, print «0 0».

Sample input 1:
3 3 4
0 2 5
-3 -1 2

Sample output 1:
2 3

Sample input 2:
3 3 24
0 2 5
-3 -1 2

Sample output 2:
0 0