

# JB Wants to Earn Big Money

Input file:            **standard input**  
Output file:           **standard output**  
Time limit:            1 second  
Memory limit:         512 megabytes

JB has always wanted to make a lot of money, so recently he is addicted to stocks.

The trading rules of the stock market are as follows. Suppose there are  $n$  people who want to buy some shares while  $m$  people who want to sell some shares. Everyone will give a price.

The system will determine a final price  $x$ . For the people who want to buy some shares, if the price he gives is not lower than  $x$ , he will join the transaction. For the people who want to sell some shares, if the price he gives is not higher than  $x$ , he will join the transaction.

Now, JB gives you the price given by the people and the final price  $x$ . He wants you to tell him the number of people who can join the transaction.

## Input

The first line contains three numbers  $n, m$  and  $x$  ( $1 \leq n, m, x \leq 10^5$ ), denoting the number of two types of people and the final price determined by the system.

The second line contains  $n$  numbers  $a_1, a_2, \dots, a_n$  ( $1 \leq a_i \leq 10^5$ ), denoting the price given by the people who want to buy some shares.

The third line contains  $m$  numbers  $b_1, b_2, \dots, b_m$  ( $1 \leq b_i \leq 10^5$ ), denoting the price given by the people who want to sell some shares.

## Output

One number, denotes the number of people who can join the transaction.

## Example

standard input	standard output
5 5 3 1 2 3 4 5 1 2 3 4 5	6