

D. CDs

time limit per test: 1 second  
memory limit per test: 256 megabytes

Jack and Jill have decided to sell some of their Compact Discs, while they still have some value. They have decided to sell one of each of the CD titles that they both own.

How many CDs can Jack and Jill sell? Neither Jack nor Jill owns more than one copy of each CD.

Input

The first line of the input contains two integers  $N$  and  $M$  ( $1 \leq N, M \leq 10^6$ ) — The number of CDs owned by Jack and by Jill, respectively.

The second line contains  $N$  space-separated integers ( $1 \leq a_i \leq 10^9$ ) — the catalog numbers of the CDs owned by Jack.

The third line contains  $M$  space-separated integers ( $1 \leq b_i \leq 10^9$ ) — the catalog numbers of the CDs owned by Jill.

Output

Print a single integer — The number of CDs Jack and Jill can sell.

Example

input	Copy
<pre>3 3 1 2 3 1 2 4</pre>	
output	Copy
<pre>2</pre>	

ICPC Assiut University Training - Juniors Phase 1 Sheets-2022

Public

Participant

→ Group Contests

- Juniors Phase 1 Practice #5 (Bitmask, Bitset, Bits)
- Juniors Phase 1 Practice #4 ( Binary search , Two pointers )
- Juniors Phase 1 Practice #3 ( STL 2 )
- Juniors Phase 1 Practice #2 ( STL 1 )
- Juniors Phase 1 Practice #1 ( Prefix sum , Frequency Array )

Juniors Phase 1 Practice #3 ( STL 2 ).

Finished

Practice

→ About Time Scaling

This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds. Read the details by the [link](#).

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Submit?

Language: GNU G++20 13.2 (64 bit, win

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
<a href="#">311929368</a>	Mar/23/2025 00:30	Accepted