CODEFORCES
Sponsored by **TON**

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PROBLEMS   SUBMIT CODE   MY SUBMISSIONS   STATUS   STANDINGS   CUSTOM INVOCATION

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 $(1 \le N, M \le 10^6)$ — The number of CDs owned by Jack and by Jill, respectively.

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

The third line contains M space-separated integers $(1 \le b_i \le 10^9)$ — 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
3 3 1 2 3 1 2 4	

output	Copy
2	