

## B. BerSU Ball

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

The Berland State University is hosting a ballroom dance in celebration of its 100500-th anniversary!  $n$  boys and  $m$  girls are already busy rehearsing waltz, minuet, polonaise and quadrille moves.

We know that several boy&girl pairs are going to be invited to the ball. However, the partners' dancing skill in each pair must differ by at most one.

For each boy, we know his dancing skills. Similarly, for each girl we know her dancing skills. Write a code that can determine the largest possible number of pairs that can be formed from  $n$  boys and  $m$  girls.

### Input

The first line contains an integer  $n$  ( $1 \leq n \leq 100$ ) — the number of boys. The second line contains sequence  $a_1, a_2, \dots, a_n$  ( $1 \leq a_i \leq 100$ ), where  $a_i$  is the  $i$ -th boy's dancing skill.

Similarly, the third line contains an integer  $m$  ( $1 \leq m \leq 100$ ) — the number of girls. The fourth line contains sequence  $b_1, b_2, \dots, b_m$  ( $1 \leq b_j \leq 100$ ), where  $b_j$  is the  $j$ -th girl's dancing skill.

### Output

Print a single number — the required maximum possible number of pairs.

### Examples

<b>input</b>	
4	
1 4 6 2	
5	
5 1 5 7 9	
<b>output</b>	
3	
<b>input</b>	
4	
1 2 3 4	
4	
10 11 12 13	
<b>output</b>	
0	
<b>input</b>	
5	
1 1 1 1 1	
3	
1 2 3	
<b>output</b>	
2	

### Codeforces Round #277.5 (Div. 2)

Finished

### → 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 ACM-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

### → Problem tags

dfs and similar dp graph matchings  
greedy sortings two pointers

No tag edit access

### → Contest materials

- Announcement 
- Tutorial 