



HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API HELP HONORCUP 🖫 CALENDAR

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

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

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

#### Output

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

#### **Examples**

Сору
Сору

input	Сору
4	
1 2 3 4	
4	
10 11 12 13	
output	Сору
0	

input	Сору
5	
1 1 1 1 1	
3	
1 2 3	
output	Сору
2	

## Codeforces Round #277.5 (Div. 2)

#### **Finished**

### **Practice**



#### → 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

#### → Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

#### → Submit?

Choose file:

Choose File No file chosen

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

Submit

### ightarrow Last submissions

Submission	Time	Verdict		
64740545	Nov/12/2019 14:51	Accepted		

# → Problem tags

dfs and similar dp graph matchings

greedy sortings two pointers \*1300

No tag edit access

#### → Contest materials

- Announcement #1 (ru)
- Announcement #2 (en)
- Tutorial (en)

×

×