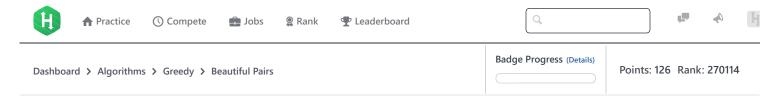
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Beautiful Pairs



Problem Submissions Leaderboard Discussions Editorial

You are given two arrays, $m{A}$ and $m{B}$, both containing $m{N}$ integers.

A pair of indices (i,j) is *beautiful* if the i^{th} element of array A is equal to the j^{th} element of array B. In other words, pair (i,j) is *beautiful* if and only if $A_i = B_j$.

Given A and B, there are k pairs of beautiful indices $(i_0, j_0), \ldots, (i_{k-1}, j_{k-1})$. A pair of indices in this set is *pairwise disjoint* if and only if for each $0 \le x < y \le k-1$ it holds that $i_x \ne i_y$ and $j_x \ne j_y$.

Change exactly 1 element in B so that the resulting number of pairwise disjoint beautiful pairs is maximal, and print this maximal number to stdout.

Input Format

The first line contains a single integer, N (the number of elements in A and B). The second line contains N space-separated integers describing array A. The third line contains N space-separated integers describing array B.

Constraints

- $1 \le N \le 10^3$
- $1 \le A_i \le 10^3$
- $1 \le B_i \le 10^3$

Output Format

Determine and print the maximum possible number of pairwise disjoint beautiful pairs.

Note: You must first change ${f 1}$ element in ${m B}$, and your choice of element must be optimal.

Sample Input

Sample Output

3

Explanation

You can transform B_2 from 3 to 2 and array B becomes [1,2,2].

We now have: A = [1, 2, 2] and B = [1, 2, 2].

Of the 5 beautiful pairs, our pairwise disjoint beautiful pairs of indices are (0,0), (1,2), (2,1).

An alternative choice would be (0,0), (1,1), and (2,2).

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Either solution yields 3 pairwise disjoint beautiful pairs, so we print 3.

Submissions:7424
Max Score:30
Difficulty: Easy
Rate This Challenge:

```
Current Buffer (saved locally, editable) & 🗘
                                                                                           Java 7
 1 ▼ import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
 4 import java.math.*;
 5 import java.util.regex.*;
 6
 7 ▼ public class Solution {
 8
        public static void main(String[] args) {
 9 ▼
            /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
10 ▼
11
12
   }
13
                                                                                                                    Line: 1 Col: 1
                                                                                                       Run Code
                                                                                                                     Submit Code
                      Test against custom input
1 Upload Code as File
```

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