Beautiful Pairs

You are given two arrays, \$A\$ and \$B\$, both containing \$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 \leq x < y \leq k-1\$ it holds that $i_x \neq 0$ and i_y and i_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 \$1\$ element in \$B\$, and your choice of element must be optimal.

Sample Input

3 122 123

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).

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