

Longest Common Subsequence

Time limit: 1.0s **Memory limit:** 256M

Solve the [Longest Common Subsequence](#) problem.

Input Specification

Line 1: N, M ($1 \leq N, M \leq 1\,000$)

Line 2: N nonnegative integers $\leq 1\,000$, the first sequence.

Line 3: M nonnegative integers $\leq 1\,000$, the second sequence.

Output Specification

Line 1: The length of the LCS of the first and second sequences.

Sample Input

```
5 3
1 4 3 4 2
2 1 3
```

Sample Output

```
2
```