Check Strict Superset

HackerRank

Problem Statement

You are given a set A and N numbers of other sets.
Your job is to find whether set A is a strict superset of all the N sets.
Print **True**, if it is a *strict superset* of all N sets otherwise print **False**.

A strict superset has atleast one element which not in its subset.

Example:
set([1, 3, 4]) is a *strict superset* of set([1,3]).
set([1, 3, 4]) is **not** a *strict superset* of set([1, 3, 4]).
set([1, 3, 4]) is **not** a *strict superset* of set([1, 3, 5]).

Input Format

First line contains, space separated elements of set A.
Second line contains, integer N.
Next N lines contain, space separated elements of other sets.

Constraints

$0 < len(set(A)) < 501$
$0 < N < 21$
$0 < len(otherSets) < 101$

Output Format

Print **True** if set A is *strict superset* of all N the sets otherwise print **False**.

Sample Input

```
1 2 3 4 5 6 7 8 9 10 11 12 23 45 84 78
2
1 2 3 4 5
100 11 12
```

Sample Output

```
False
```

Explanation

Set A is the *strict superset* of set([1, 2, 3, 4, 5]) but not set([100, 11, 12]) because 100 is not in set A.
Hence, the output is **False**.