



Check Strict Superset ★

40/115 challenges solved

Rank: 164129 | Points: 525 ⓘ



Your Check Strict Superset submission got 10.00 points.

[Share](#)
[Post](#)

[Try the next challenge](#)
[Problem](#)
[Submissions](#)
[Leaderboard](#)
[Editorial](#) ⓘ

You are given a set **A** and **n** other sets.

Your job is to find whether set **A** is a strict superset of each of the **N** sets.

Print True, if **A** is a strict superset of each of the **N** sets. Otherwise, print False.

A strict superset has at least one element that does not exist 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

The first line contains the space separated elements of set **A**.

The second line contains integer **n**, the number of other sets.

The next **n** lines contains the space separated elements of the other sets.

Constraints

- $0 < \text{len}(\text{set}(A)) < 501$
- $0 < N < 21$
- $0 < \text{len}(\text{otherSets}) < 101$

Output Format

Print True if set **A** is a strict superset of all other **N** sets. Otherwise, print False.

Sample Input 0

```
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 0

```
False
```

Explanation 0

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

Hence, the output is False.

[Change Theme](#)

Language

Python 3



```
1 # Enter your code here. Read input from STDIN. Print output to STDOUT
2 A = set(map(int, input().split()))
3 n = int(input())
4 result = True
5 for _ in range(n):
6     B = set(map(int, input().split()))
7     if B.issubset(A):
8         if A.issubset(B):
9             result = False
10        else:
11            result = False
12 print(result)
13
```

EMACS

Line: 13 Col: 1

Upload Code as File

☐ Test against custom input

Run Code

Submit Code

You have earned 10.00 points!

40/115 challenges solved.

35%



Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

Test case 0

Compiler Message

✔ Test case 1 🔒

Success

✔ Test case 2 🔒

Input (stdin)

[Download](#)

✔ Test case 3 🔒

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

✔ Test case 4 🔒

✔ Test case 5 🔒

Expected Output

[Download](#)

1	False
---	-------