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Practice > Python > Sets > Check Strict Superset

Check Strict Superset ☆

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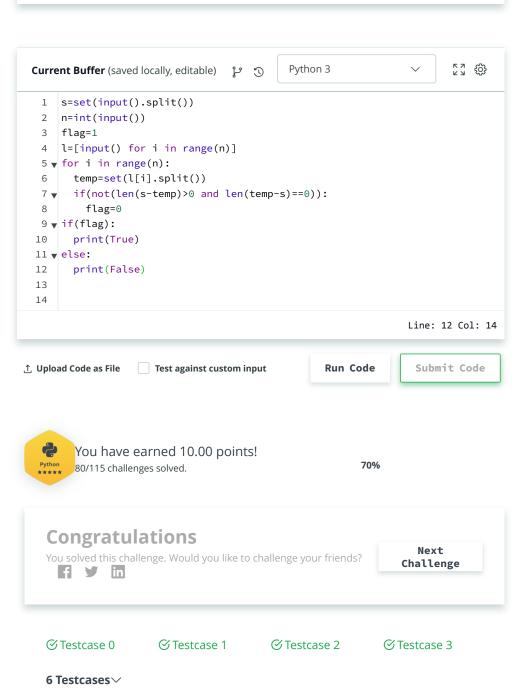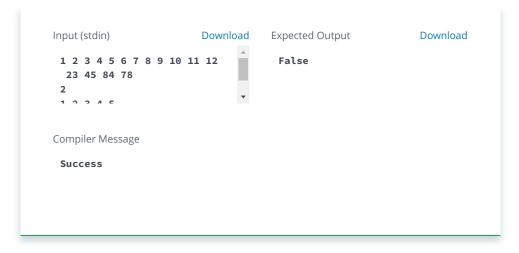

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You are given a set A and n other sets.

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

- $0 < len(set(A)) < 501$

- $0 < N < 21$

- $0 < len(otherSets) < 101$

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
```

Author	DOSHI
Difficulty	Easy
Max Score	10
Submitted By	17566

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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`.

Current Buffer (saved locally, editable)   ⌥ 🕘   Python 3   ⤢ ⚙

```python
 1   s=set(input().split())
 2   n=int(input())
 3   flag=1
 4   l=[input() for i in range(n)]
 5   for i in range(n):
 6      temp=set(l[i].split())
 7      if(not(len(s-temp)>0 and len(temp-s)==0)):
 8         flag=0
 9   if(flag):
10      print(True)
11   else:
12      print(False)
13
14
```

Line: 12 Col: 14

⬆ Upload Code as File   ☐ Test against custom input   **Run Code**   **Submit Code**

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✓ Testcase 0   ✓ Testcase 1   ✓ Testcase 2   ✓ Testcase 3

6 Testcases ⌄

Input (stdin)   Download   Expected Output   Download

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

Compiler Message

Success

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