



Practice > Python > Sets > Check Subset

Check Subset ☆

79/115 challenges solved

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Problem

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You are given two sets, A and B .

Your job is to find whether set A is a subset of set B .

If set A is subset of set B , print **True**.

If set A is not a subset of set B , print **False**.

Input Format

The first line will contain the number of test cases, T .

The first line of each test case contains the number of elements in set A .

The second line of each test case contains the space separated elements of set A .

The third line of each test case contains the number of elements in set B .

The fourth line of each test case contains the space separated elements of set B .

Constraints

- $0 < T < 21$
- $0 < \text{Number of elements in each set} < 1001$

Output Format

Output **True** or **False** for each test case on separate lines.

Sample Input

```
3
5
1 2 3 5 6
9
9 8 5 6 3 2 1 4 7
1
2
5
3 6 5 4 1
7
1 2 3 5 6 8 9
3
9 8 2
```

Sample Output

Author

DOSHI

Difficulty

Easy

Max Score

10

Submitted By

18686

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True
False
False

Explanation

Test Case 01 Explanation

Set $A = \{1\ 2\ 3\ 5\ 6\}$

Set $B = \{9\ 8\ 5\ 6\ 3\ 2\ 1\ 4\ 7\}$

All the elements of set A are elements of set B .

Hence, set A is a subset of set B .

Current Buffer (saved locally, editable)



Python 3



```
1 n=int(input())
2 for i in range(n):
3     temp=input()
4     a=set(input().split())
5     temp=input()
6     b=set(input().split())
7     print(a.issubset(b))
```

Line: 7 Col: 21

Upload Code as File

☐ Test against custom input

Run Code

Submit Code



You have earned 10.00 points!

79/115 challenges solved.

69%

Congratulations

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



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Challenge

✔ Testcase 0

✔ Testcase 1

✔ Testcase 2

✔ Testcase 3

6 Testcases ✓

Input (stdin)

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Expected Output

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```
3
5
1 2 3 5 6
^
```

```
True
False
False
```

Compiler Message

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