



Domains

Contests

Rank

Leaderboard

Jobs



Ankush23s ▾

All Domains > Python > Sets > Check Subset

Points: 410.43 Rank: 6156

Check Subset

by DOSHI

Problem

Submissions

Leaderboard

Discussions

Editorial

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

```
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 .

Note: More than 4 lines will result in a score of zero. Blank lines won't be counted.

[f](#) [t](#) [in](#)

Solved score: 5.00pts

Submissions: 4394

Max Score: 10

Difficulty: Easy

Rate This Challenge:

★★★★★ Thanks!

[More](#)

Current Buffer (saved locally, editable)

Python 3



```
1 for i in range(int(input())): #More than 4 lines will result in 0 score. Blank lines won't be counted.
2     a = int(input()); A = set(input().split());
3     b = int(input()); B = set(input().split())
4     print("True") if A.issubset(B) else print("False")
5
6
7
```

Line: 6 Col: 9

 [Upload Code as File](#)

Test against custom input

Run Code

Submit Code

Testcase 0 **Congratulations, you passed the sample test case.**Click the **Submit Code** button to run you code against all the test cases.**Score: 1****Input (stdin)**

```
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
```

Your Output (stdout)

```
True
False
False
```

Expected Output

```
True
False
False
```

Copyright © 2016 HackerRank. All Rights Reserved

Join us on IRC at [#hackerrank](#) on freenode for hugs or bugs.[Contest Calendar](#) | [Interview Prep](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Request a Feature](#)