



Check Subset ★

38/115 challenges solved

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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

```
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**.

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Language

Python 3



```
1 # Enter your code here. Read input from STDIN. Print output to STDOUT
2 t = int(input())
3 for _ in range(t):
4     a = int(input())
5     A = set(map(int, input().split()))
6     b = int(input())
7     B = set(map(int, input().split()))
8     print(A.issubset(B))
9
```

EMACS

Line: 9 Col: 1

Upload Code as File

☐ Test against custom input

Run Code

Submit Code

Fetching Results

- Test case 0
- Test case 1
- Test case 2
- Test case 3
- Test case 4
- Test case 5

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