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## The Whim of Mr Doraemon

Problem code: DORAEMON

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### SUCCESSFUL SUBMISSIONS

Not long after their country lifted the World Cup, the people of Nobitaville decided to organize a Victory Marathon for celebrations. While other preparations were in order, Mr.Doraemon, who happened to be a very moody person, made it clear by announcing that he would let the Marathon take place only if Jerseys were distributed among people in some sort of order. He added that the richest person should get the smallest Jersey Number and the next richest person, the second smallest jersey number, and so on and so forth. If this order would be taken care of, the mayor would happily let the people enjoy the Marathon, else everybody would be sent back home. The people are really looking forward to enjoy the Marathon but are quite worried about this wish of the mayor and hence, need your help. Jerseys have already been distributed among the people. You need to check whether the Marathon will take place or not, so that if not, the people can reshuffle the jerseys and fulfill the mayor's wish.

### Input

The first line of Input contains an integer **T**, denoting the number of test cases.

Then **T** test cases follow.

The first line of each test case contains an integer **N**, denoting the number of people participating in the Marathon. This is followed by two lines, each containing **N** number of entries. The first line contains **N** **distinct** numbers, denoting the Jersey Number of the people( **A<sub>i</sub>** ). The second line contains **N** numbers, denoting the wealth of the people( **B<sub>i</sub>** ), with **i**th wealth corresponding to the **i**th person, mentioned in the previous line.

### Output

If the Jerseys have been distributed in the order the Mayor demands, print **"YES"** and if not, print **"NO"** (without quotes).

### Constraints

- $1 \leq T \leq 100$
- $1 \leq N \leq 10^5$
- $1 \leq A_i \leq 10^9$
- $1 \leq B_i \leq 10^9$

### Example

Input:

```
2
5
2 3 5 1 4
600 400 100 2000 250
4
7 9 11 12
6000 7000 4000 102
```

Output:

```
YES
NO
```

**NOTE:** Jersey Numbers will **not** be provided in non-decreasing fashion.

Author: saurabhnit

Date Added: 16-04-2016

Time Limit: 1 sec

Source Limit: 50000 Bytes

Languages: ADA, ASM, BASH, BF, C, C99 strict, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 4.9.2, CPP14, CS2, D, ERL, FOR, FS, GO, HASK, ICK, ICON, JAVA, JS, LISP clisp, LISP sbd, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PERL6, PHP, PIKE, PRLG, PYPY, PYTH, PYTH 3.1.2, RUBY, SCALA, SCM chicken, SCM guile, SCM qobi, ST, TCL, TEXT, WSPC

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