1021 - Prerequisites?

Description

Freddie has chosen to take **k** courses. To meet the degree requirements, he must take courses from each of several categories. Can you assure Freddie that he will graduate, based on his course selection?

Input specification

Input consists of several test cases (no more than 50). For each case, the first line of input contains 1 <= k <= 100, the number of courses Freddie has chosen, and 0 <= m <= 100, the number of categories. One or more lines follow containing k 4-digit integers follow; each is the number of a course selected by Freddie. Each category is represented by a line containing 1 <= c <= 100, the number of courses in the category, 0 <= r <= c, the minimum number of courses from the category that must be taken, and the c course numbers in the category. Each course number is a 4-digit integer. The same course may fulfil several category requirements. Freddie's selections, and the course numbers in any particular category, are distinct. A line containing 0 follows the last test case.

Output specification

For each test case, output a line containing "yes" if Freddie's course selection meets the degree requirements; otherwise output "no".

Sample input

```
3 2
0123 9876 2222
2 1 8888 2222
3 2 9876 2222 7654
3 2
0123 9876 2222
2 2 8888 2222
3 2 7654 9876 2222
0
```

Sample output

yes no

Caribbean Online Judge

Hint(s)

Source Waterloo Local Contest 2005
September 24 (Gordon Cormack)

Added by **ejaltuna**

Addition date 2011-10-12 02:05:05.0

Time limit (ms) 1000

Test limit (ms) 1000

Memory limit (kb) 131072

Output limit (mb) 64

Size limit (bytes) 100000

C C# C++ Java Pascal Perl PHP Enabled languages

Python Ruby Text