## 10919 Prerequisites?

Freddie the frosh 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

Input consists of several test cases. For each case, the first line of input contains $1 \leq k \leq 100$, the number of courses Freddie has chosen, and $0 \leq m \leq 100$, 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 $1 \leq c \leq 100$, the number of courses in the category, $0 \leq r \leq c$, 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 in-
 teger. 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

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

## Sample Input

```
3 }
01239876 2222
2 1 8888 2222
329876 22227654
```

32
012398762222
2288882222
32765498762222
0

## Sample Output

yes
no

