**Girls and Boys**

**Time Limit: 20000/10000 MS (Java/Others)    Memory Limit: 65536/32768 K (Java/Others)  
Total Submission(s): 8038    Accepted Submission(s): 3672**

**Problem Description**

the second year of the university somebody started a study on the romantic relations between the students. The relation “romantically involved” is defined between one girl and one boy. For the study reasons it is necessary to find out the maximum set satisfying the condition: there are no two students in the set who have been “romantically involved”. The result of the program is the number of students in such a set.  
  
The input contains several data sets in text format. Each data set represents one set of subjects of the study, with the following description:  
  
the number of students  
the description of each student, in the following format  
student\_identifier:(number\_of\_romantic\_relations) student\_identifier1 student\_identifier2 student\_identifier3 ...  
or  
student\_identifier:(0)  
  
The student\_identifier is an integer number between 0 and n-1, for n subjects.  
For each given data set, the program should write to standard output a line containing the result.

**Sample Input**

7

0: (3) 4 5 6

1: (2) 4 6

2: (0)

3: (0)

4: (2) 0 1

5: (1) 0

6: (2) 0 1

3

0: (2) 1 2

1: (1) 0

2: (1) 0

**Sample Output**

5

2

**Source**

[Southeastern Europe 2000](http://acm.hdu.edu.cn/search.php?field=problem&key=Southeastern+Europe+2000&source=1&searchmode=source)

**Recommend**

JGShining   |   We have carefully selected several similar problems for you:  [1150](http://acm.hdu.edu.cn/showproblem.php?pid=1150) [1151](http://acm.hdu.edu.cn/showproblem.php?pid=1151) [1281](http://acm.hdu.edu.cn/showproblem.php?pid=1281) [1507](http://acm.hdu.edu.cn/showproblem.php?pid=1507) [1528](http://acm.hdu.edu.cn/showproblem.php?pid=1528)