**XX. Cheater!**

# Program Name: Cheating.java Input File: cheating.dat

Ral is currently in the advanced division because of his suspiciously high written scores, however, Mr. A believes that Ral is cheating off Eyeoosh, the best programmer at Cy Woods. To solve this mystery Mr. A has enlisted Anand Iyer who has come in clutch and given him a seating chart of the classroom in which the written test took place. To determine if Ral is cheating, he has to be sitting laterally next to or diagonally behind a person with the same written score as him. Ral will **ALWAYS** be represented by a R in the matrix while other students will be represented by the other 25 alphabetic characters. No letter will be repeated. The front of the classroom is the top of the matrix.

**Input**

The first line contains N, an integer indicating the number of datasets to follow. The first line each data set has an integer R representing Ral's score on the written test. The next line contains an integer Q, indicating how many students competed in the contest. The next Q lines contain the name of a student, K, and the score that that student received on the written, S, separated by a space. The next line will contain 2 integers A and B representing the rows and columns of the classroom respectively. The next A lines will contain B characters representing a specific spot in the classroom, each containing '.' which represents an empty seat, '#' representing a wall of the classroom, or a letter excluding 'R'. The classroom will always be surrounded by walls.

**Output**

If Ral did not cheat print out “Ral is a God” and the scoreboard sorted in order of highest written score to the least, however, if Ral is caught cheating print out “Ral is DQ'd and needs to skrt skrt” and the scoreboard sorted in order of highest written score to the least excluding Ral. In case of written score ties, sort by alphabetical order. Separate datasets with a blank line excluding the last dataset.

**Example Input File**

3

232

5

S 240

A 232

B 64

E 216

C 232

6 14

##############

#............#

#....S.A.....#

#....ERB.....#

#.........C..#

##############

102

1

A 232

4 4

####

#.A#

#R.#

####

-72

3

D 240

G 232

T -72

8 10

##########

#........#

#.....D..#

#.....T..#

#..GR....#

#........#

#........#

##########

**Example Output to Screen**

Ral is DQ'd and needs to skrt skrt

1st Place - S with a 240

2nd Place - A with a 232

3rd Place - C with a 232

4th Place - E with a 216

5th Place - B with a 64

Ral is a God

1st Place - A with a 232

2nd Place - R with a 102

Ral is a God

1st Place - D with a 240

2nd Place - G with a 232

3rd Place - A with a -24

4th Place - R with a -72