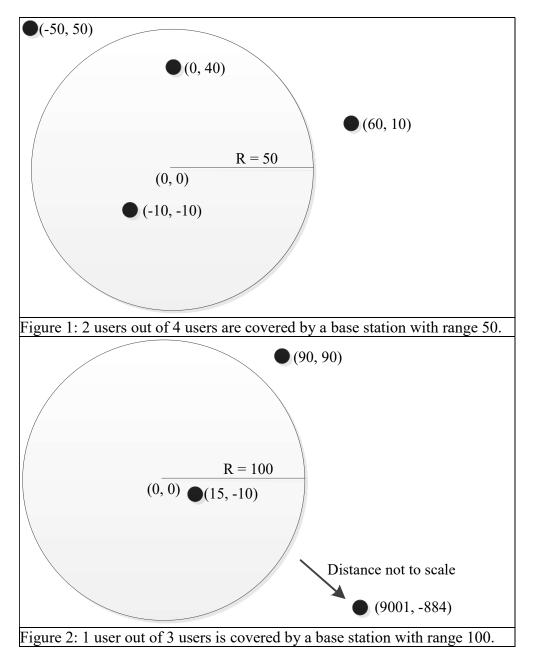
## **Problem K: Cell Coverage**

Source file: coverage. {c, cpp, java}

Input file: coverage.in

A cell phone company is evaluating building a new base station and wants your help. The company knows the geographical distribution of users but needs to determine how many users (mobile stations) a base station with a given range will serve.



No users will be located precisely on the border of coverage. A user at point (0, 0) is within range of the base station.

**Input:** The first line of the input is the number of datasets, N,  $1 \le N \le 50$ . The first line of each set of data has two integers, R and C, such that 0 < R < 1000 and 0 < C < 100. R is the radius of the circle of coverage provided by the base station centered at coordinates (0, 0). C is the number of users.

C lines follow, each of which contains two integers X and Y, such that -100000 < X < 100000 and -100000 < Y < 100000. Each line defines a user at coordinates (X, Y).

The end of the input file is designated by a line containing the value 0.

**Output:** For each base station, print how many of the specified users are within the range of the base station.

Example input:	Example output:	
2		
50 4	2	
-10 -10		
60 10		
0 40		
-50 50		
100 3		
9001 -884		
15 -10		
90 90		
0		