

01328:Radar Installation

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总时间限制: 1000ms 内存限制: 65536kB

### 描述

Assume the coasting is an infinite straight line. Land is in one side of coasting, sea in the other. Each small island is a point locating in the sea side. And any radar installation, locating on the coasting, can only cover  $d$  distance, so an island in the sea can be covered by a radius installation, if the distance between them is at most  $d$ .

We use Cartesian coordinate system, defining the coasting is the  $x$ -axis. The sea side is above  $x$ -axis, and the land side below. Given the position of each island in the sea, and given the distance of the coverage of the radar installation, your task is to write a program to find the minimal number of radar installations to cover all the islands. Note that the position of an island is represented by its  $x$ - $y$  coordinates.

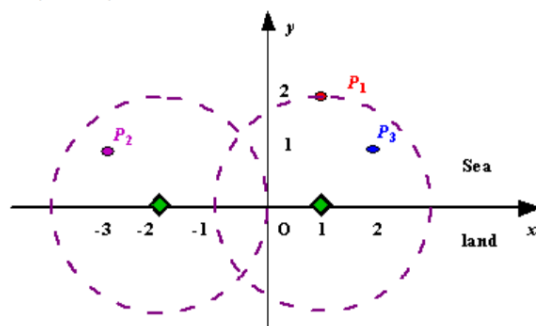


Figure A Sample Input of Radar Installations

### 输入

The input consists of several test cases. The first line of each case contains two integers  $n$  ( $1 \leq n \leq 1000$ ) and  $d$ , where  $n$  is the number of islands in the sea and  $d$  is the distance of coverage of the radar installation. This is followed by  $n$  lines each containing two integers representing the coordinate of the position of each island. Then a blank line follows to separate the cases.

The input is terminated by a line containing pair of zeros

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### 你的提交记录

#	结果	时间
62	Accepted	2025-10-18
61	Wrong Answer	2025-10-18
60	Wrong Answer	2025-10-18
59	Wrong Answer	2025-10-18
58	Wrong Answer	2025-10-18
57	Wrong Answer	2025-10-18
56	Runtime Error	2025-10-18
55	Time Limit Exceeded	2025-10-18
54	Accepted	2025-10-18
53	Time Limit Exceeded	2025-10-18
52	Time Limit Exceeded	2025-10-18
51	Time Limit Exceeded	2025-10-18
50	Compile Error	2025-10-18
49	Accepted	2025-10-18
48	Compile Error	2025-10-18
47	Wrong Answer	2025-10-18
46	Time Limit Exceeded	2025-10-18