B Hormones

Time Limit	**2 seconds**
Memory Limit	**64 MB**

Teens are driven by hormones. The one, who can control the hormones, can control their power. In the programming contest, the result usually depending on the 3 hormones of contestant: **A** Adrenaline, **D** Dopamine, and **E** Endorphin. Since coach of every team try to predict the result of contest, they exchange hormones data of their team member. Student x has potential to beat student y if ($A_x < A_y$) and ($D_x < D_y$) and ($E_x < E_y$)

Your task is to find the number of contestant which contestant i^{th} has potential to win.

INPUT

The first line of input is a number of test cases **T** ≤ 100. Each test case is given in the following format.

- The first line contains an integer **N** (1 ≤ **N** ≤ 2 013).
- The next **N** lines gives the hormones of each contestant, one contestant per line. Each line consists of 3 integers **A, D** and **E.** (0 ≤ **A, D, E** ≤ 100).

OUTPUT

For each test case, display **N** line of output. Each line contains an integer W_i number of contestant which contestant i^{th} has potential to win.

EXAMPLE

Input	Output
1 5 81 100 61 30 0 49 4 29 11 15 77 23 2 1 2	0 1 2 1 3