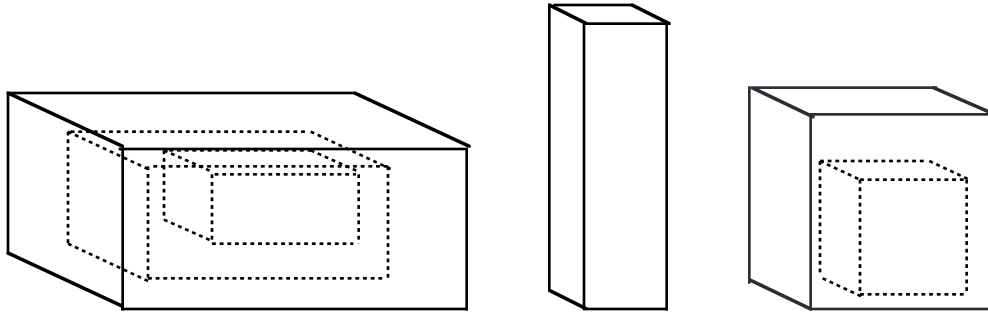


BARGAIN BOXING

Confederated Express charges a fixed rate per package for shipping packages up to 36 inches in their maximum dimension. BigTime Boxes, Inc., uses ConEx to send their elite boxes. Since the rectangular boxes are themselves empty, they can save considerably by nesting boxes inside other boxes when feasible.



Box B will fit inside box B' if, after suitable rotation, the length, width, and height of B are, respectively, at least one inch less than the length, width, and height of B' . For example, a $5'' \times 3'' \times 6''$ box will fit inside a $4'' \times 7'' \times 6''$ box (since $3 < 4$, $5 < 6$, and $6 < 7$).

In this problem, you are given the dimensions of the boxes in a planned shipment by BigTime Boxes. You need to determine the minimum number of packages that BigTime will turn over to ConEx.

Input to your program will be specifications of shipments. The first line for each shipment will be the number of boxes n in the shipment ($1 \leq n \leq 25$). The following n lines will each consist of a triple of integers $l w h$ (with one space separation) with $1 \leq l, w, h \leq 36$, indicating the length, width, and height of a box in inches.

Output for each shipment should be the minimum number of nested packages that will accommodate all the boxes in the shipment.

Sample Input

```
4
2 1 3
4 3 5
2 3 4
4 5 6
5
5 5 5
4 4 5
4 5 5
2 3 3
5 6 6
```

Sample Output

```
1
3
```