

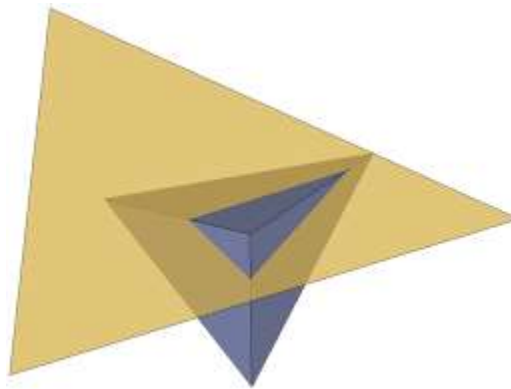
## Evil Ninja vs. Tetra-Bot

Filenames: *ninja*, *ninja\_small* (for partial credit)

Time limit: *1 second*

Tetra-Bot, a robot in the shape of a tetrahedron (a solid with four triangular faces), flies across the universe helping creatures of all kinds. Unfortunately the Evil Ninja does not like Tetra-Bot's escapades and seeks to destroy Tetra-Bot with his Extra Powerful Nunchucks. These nunchucks are so powerful that Evil Ninja can choose a single plane in 3D space and the Extra Powerful Nunchucks will slice (and destroy) any three dimensional object that has even a single point on the plane. (So, even if only one of Tetra-Bot's vertices is on the plane, he is toast!)

Help the Universe determine if Evil Ninja's Extra Powerful Nunchucks will destroy Tetra-Bot or not!



### The Problem

Given a plane and a tetrahedron, determine if the plane intersects the tetrahedron.

### The Input

The first line of input will contain a single positive integer,  $c$  ( $c \leq 100$ ), representing the number of input cases to process. The input cases follow. Each input case consists of seven lines. Each of these lines will consist of three space separated integers,  $x$  ( $-500 \leq x \leq 500$ ),  $y$  ( $-500 \leq y \leq 500$ ), and  $z$  ( $-500 \leq z \leq 500$ ), representing a point in three dimensional space. Specifically, the first three of the seven lines will contain three non-collinear points which define the plane that Evil Ninja is deploying his Extra Powerful Nunchucks. The last four of the seven lines will contain four points which define a tetrahedron with positive volume.

### Partial Credit Input (50%)

The input plane given for each case will be the regular Cartesian Plane with  $z = 0$  for all three input points.

### **The Output**

For each input case, output a single line with either the string “Tetra-Bot Survives!” or “Evil Ninja Prevails!”. Output the first message if the plane does NOT intersect the tetrahedron and output the second message if the plane does intersect the tetrahedron.

### **Sample Input**

```
2
3 4 0
6 1 0
14 13 0
-1 -1 -1
-7 -3 -2
-1 -1 -9
3 5 -2
0 0 0
1 0 1
0 1 1
3 4 17
3 19 15
200 400 391
100 100 16
```

### **Sample Output**

```
Tetra-Bot Survives!
Evil Ninja Prevails!
```

Note: Only the first case would be valid input for the partial credit input.