

4116 Entangled Triangles

Given a pair of triangles in 3D space, find out whether or not they are entangled in each other, just like two links of a chain.

You may assume the following:

- None of the vertices of one triangle lie inside the other triangle.
- None of the edges of one triangle intersect any of the edges of the other triangle.
- None of the edges of one triangle touch any of the vertices of the other triangle.

Input

There may be multiple specification sets in the input. Each specification set is followed by a blank line.

Within each specification set...

The first 3 lines hold the 3D coordinates of the vertices of the first triangle (one vertex per line); the next 3 lines hold those of the second triangle.

Each vertex is a set of 3, space-delimited integers denoting the x , y , and z coordinate values, respectively. ($|x|$, $|y|$, and $|z| < 301$)

Output

For every specification set in the input, your program must output the string 'Entangled' (sans quotes) if the triangles are entangled, or 'Not Entangled' if they are not. Each result must be on a line by itself.

A blank line must follow each result line.

Sample Input

```
5 1 0
10 2 0
7 4 0
5 1 2
10 2 2
7 4 2
```

```
5 1 0
10 2 0
7 4 0
7 2 5
7 2 -5
12 12 0
```

Sample Output

```
Not Entangled
```

```
Entangled
```