

6 *Ballon d'or*

3 points

Introduction

Every year there is a great controversy when the winner of the FOFA Ballon d'Or is announced. In order to make the voting process as transparent as possible, and avoid complaints, FOFA has asked HP to create an automatic vote counter.

FOFA nominates 15 players from around the world for the final-round voting, and assigns them numbers from 1 to 15. From among these players, each judge will give 3 points to the best player, 2 points to the second best and 1 point to the third. When all the judges have voted, the points for each player are counted and the top three are announced, giving the Ballon d'Or to the player with the most points.

Input

Each line will contain the player numbers a member of the jury awards their points to. The first number is the number of the player with 3 points, the second one is the number of the player with 2 points and the third number is the player with 1 point. A zero will indicate the end of the input.

```
10 7 11    ← Jury gives 3 votes to player 10, 2 to player 7 and 1 to player 11
10 7 1
10 11 7
7 11 4
7 10 11
10 7 11
11 7 10
10 1 7
0
```

Output

The top 3 players ordered by number of points. In case of a draw, the player with lower number will have better ranking. There will be one line for each player containing their player number and their final score.

```
10 18
7 16
11 10
```

