Bloomberg CODECON

Memory Limit: 1024 MB
Time Limit: 5 s

Messed up Rugby (100 points)

Introduction

A team of **developers from New York** visits London and decides to try their hands at Rugby. None of them quite remember the exact rules so they just use the **rules of American Football** where you can score 2, 3 or 7 points at a time.

When they talk to you afterwards, they tell you that the final score of the game was 38 - 0. After facepalming, you are curious to find **all possible ways** to score 38 points.

Write a program that, given a **score X**, prints all possible combinations of the messed up **conversions** (7 points), **tries** (3 points), and **kicks** (2 points) that would make up this score.

Input Specifications

Your program will take a **target score** between 0 and 222.

Output Specifications

Based on the input, print out one row for each combination of messed up conversions, tries, and kicks that would get to that score, each column delimited by a space. The output should be in **ascending order** of touchdowns, field goals, and then safeties. If the score is not achievable, just output **0 0 0**

Sample Input/Output

Input

```
10
```

Output

```
0 0 5
0 2 2
1 1 0
```

Explanation

There are three possible ways to reach a score of 10 given the rules above.

Input

```
17
```

Output

```
0 1 7
0 3 4
0 5 1
1 0 5
```

```
1 2 2
2 1 0
```

Explanation

There are six possible ways to reach a score of 10 given the rules above.