

## Problem E Ice War I

Time limit: 3 seconds

Memory limit: 1024 megabytes

### Problem Description

There is a card battle game called “Ice War.” In this game, the player needs to accumulate MP (Mana Points) to launch attacks.

There are three types of attacks: Small Fire, Medium Fire and Large Fire, which cost 1 MP, 2 MP and 3 MP, respectively.

The MP-to-damage efficiency of these attacks is:

- Small Fire: 100% - 1 MP deals 1 damage
- Medium Fire: 150% - 2 MP deals 3 damage
- Large Fire: 200% - 3 MP deals 6 damage

Your task is to determine how to use a given amount of MP to maximize total damage dealt to the enemy.

### Input Format

Your program should read from standard input. The input consists of  $T$  test cases. The first line contains a single integer  $T$ , the number of test cases.

Each of the following  $T$  lines contains one integer  $MP$  ( $0 \leq MP \leq 100,000$ ), representing the amount of Mana Points available in that test case.

### Output Format

For each test case, output two lines:

- The first line should show the number of times each type of attack is used to maximize total damage. The counts must be listed in the following order: *Small Fire*, *Medium Fire*, then *Large Fire*, separated by a space.
- The second line should display the **maximum total damage** that can be dealt with the given MP.

### Technical Specification

- $1 \leq T \leq 100$
- $0 \leq MP \leq 100,000$

### Sample Input 1

```
4
2
5
10
200
```

### Sample Output 1

```
0 1 0
3
0 1 1
9
1 0 3
19
0 1 66
399
```