

## 1043 - Simple Dishes

### Description

It has a weight of simple dishes, and weights of **1kg, 2kg, 4kg, 8kg, 16Kg, ..., up to  $2^{14}$ kg**. And he wants to weigh objects whose total weight is less than  **$2^{15}$  kg**. You are required to develop a software that, given the weight of the object find which dishes you need to use to do their weighing. The weights are properly numbered with a value  **$0 \leq P_i \leq 14$** , in the same order they are given, where each has a weight equal to  **$2^{P_i}$** .

### Input specification

An integer  **$1 \leq T \leq 100$**  that corresponds to the number of objects. Then in the following **T** lines, a positive integer greater than zero with the weight of the object in each case.

### Output specification

For each object should be printed on one line, separated by a space, the number of each of the weights to be used for the weighing, in ascending order.

### Sample input

```
3
5
73
255
```

### Sample output

```
0 2
0 3 6
0 1 2 3 4 5 6 7
```

### Hint(s)

Source

XXIII Copa Void de Programación -  
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Added by

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## Caribbean Online Judge

Time limit (ms)	1000
<b>Test limit (ms)</b>	1000
Memory limit (kb)	131072
Output limit (mb)	64
Size limit (bytes)	100000
Enabled languages	C C# C++ Java Pascal Perl PHP Python Ruby Text