

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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Addition date

2011-10-12 23:23:56.0