

A. Ichihime and Triangle

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

Ichihime is the current priestess of the Mahjong Soul Temple. She claims to be human, despite her cat ears.

These days the temple is holding a math contest. Usually, Ichihime lacks interest in these things, but this time the prize for the winner is her favorite — cookies. Ichihime decides to attend the contest. Now she is solving the following problem.

You are given four positive integers a, b, c, d , such that $a \leq b \leq c \leq d$.

Your task is to find three integers x, y, z , satisfying the following conditions:

- $a \leq x \leq b$.
- $b \leq y \leq c$.
- $c \leq z \leq d$.
- There exists a triangle with a positive non-zero area and the lengths of its three sides are x, y , and z .

Ichihime desires to get the cookie, but the problem seems too hard for her. Can you help her?

Input

The first line contains a single integer t ($1 \leq t \leq 1000$) — the number of test cases.

The next t lines describe test cases. Each test case is given as four space-separated integers a, b, c, d ($1 \leq a \leq b \leq c \leq d \leq 10^9$).

Output

For each test case, print three integers x, y, z — the integers you found satisfying the conditions given in the statement.

It is guaranteed that the answer always exists. If there are multiple answers, print any.

Example

input
4 1 3 5 7 1 5 5 7 100000 200000 300000 400000 1 1 977539810 977539810
output
3 4 5 5 5 5 182690 214748 300999 1 977539810 977539810

Note

One of the possible solutions to the first test case:

One of the possible solutions to the second test case: