Problem G. Only Pluses

Time Limit 1000 ms
Mem Limit 262144 kB

Kmes has written three integers a, b and c in order to remember that he has to give Noobish_Monk $a \times b \times c$ bananas.

Noobish_Monk has found these integers and decided to do the following **at most** 5 **times**:

- pick one of these integers;
- increase it by 1.

For example, if $a = 2$, $b = 3$ and $c = 4$, then one can increase a three times by one and increase b two times. After that $a = 5$, $b = 5$, $c = 4$. Then the total number of bananas will be $5 \times 5 \times 4 = 100$.

What is the maximum value of $a \times b \times c$ Noobish_Monk can achieve with these operations?

Input

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

The first and only line of each test case contains three integers a, b and c ($1 \leq a, b, c \leq 10$) — Kmes's integers.

Output

For each test case, output a single integer — the maximum amount of bananas Noobish_Monk can get.

Examples

Input	Output
2 2 3 4 10 1 10	100 600