## Add and Multiply

Given three integers A, B, C, you are allowed to perform exactly two operations on these numbers: an addition and a multiplication.

For instance, if $A=10, B=3, C=2$, we can get $(10+2) * 3=36$.
What are the minimum and maximum values you can get by applying these two operations?

## Input

The first line of input contains $T(1<=\mathrm{T}<=200)$, the number of test cases to consider.
Each of the next $T$ lines contains three integers $A, B$, and $C$ (where $-1,000,000<=A, B, C<=$ $1,000,000$ ).

## Output

For each test case, output a line with the minimum and maximum values described in the statement.

## Sample

## Input

2
1032
-3 2 -5

## Output

1650
-16 17

