# Twenty Second Russia Team Open, High School Programming Contest 

## Problem H. Lots of Parabolas

$\begin{array}{ll}\text { Time limit: } & 1 \text { second } \\ \text { Memory limit: } & 512 \text { megabytes }\end{array}$
On a plane there is a set of parabolas given by equations in the form $y=a \cdot x^{2}+b \cdot x+c$.
Let's consider a point to be located inside a parabola if it located above the parabola in case of positive coefficient $a$, or below the parabola in case of negative $a$.


On this figure, the point $P$ is located inside both parabolas, the point $Q$ is inside one of them, and the point $R$ is inside none of them.
You need to find any point that is located inside all parabolas. It is guaranteed that such point exists.

## Input

The first line contains a single integer $n(1 \leq n \leq 100000)$ - the number of parabolas.
Each of the next $n$ lines contains three integers $a, b, c\left(|a|,|b|,|c| \leq 10^{9} ; a \neq 0\right)$, describing a parabola $y=a \cdot x^{2}+b \cdot x+c$.

## Output

Print two real numbers $x$ and $y$-coordinates of a point located inside all parabolas.
The answer is considered correct if there exists a point at distance at most $10^{-6}$ from the printed one, which is located strictly inside all parabolas.

## Example

|  | standard input | standard output |  |
| :--- | :--- | :--- | :--- |
| 4 |  | 0.249999996325019324 .124999990812548 |  |
| 1 | 2 | 3 |  |
| 1 | -3 | -5 |  |
| -1 | 3 | 4 |  |
| -2 | 4 | 6 |  |

