# Minimum Operations

There are $n$ boxes in front of you. For each $i$, box $i$ contains $r_i$ red balls, $g_i$ green balls, and $b_i$ blue balls.

You want to separate the balls by their color. In each operation you can pick a single ball from some box and put it into another box. The balls are separated if no box contains balls of more than one color.

**Input Format**

The first line contains a single integer $n$. The next $n$ lines contain three space-separated integers, the $i^{th}$ line containing $r_i$, $g_i$, and $b_i$, respectively.

**Note:** In this problem you can modify at most *six* lines of code and you cannot add any new lines.

**To restore the original code in the editor, create a new buffer by clicking on the top left icon in the editor.**

**Constraints**

$1 \leq n \leq 100$
$0 \leq r_i,\ g_i,\ b_i \leq 105$

**Output Format**

Print the minimal number of operations required to separate the balls. If this is impossible, return $-1$.

**Sample Input**

```
3
1 1 1
1 1 1
1 1 1
```

**Sample Output**

```
6
```

**Explanation**

In this case let the first box contain only red balls, the second box only blue balls, and the third box only green balls.
So from the first box 1 blue ball should be moved to the second box and 1 green ball should be moved to the third box.
From the second box 1 red ball should be moved to the first box and 1 green ball should be moved to the third box. Likewise for the third row. So the number of operations is 6.