

## C. Table Decorations

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

You have  $r$  red,  $g$  green and  $b$  blue balloons. To decorate a single table for the banquet you need exactly three balloons. Three balloons attached to some table shouldn't have the same color. What maximum number  $t$  of tables can be decorated if we know number of balloons of each color?

Your task is to write a program that for given values  $r$ ,  $g$  and  $b$  will find the maximum number  $t$  of tables, that can be decorated in the required manner.

### Input

The single line contains three integers  $r$ ,  $g$  and  $b$  ( $0 \leq r, g, b \leq 2 \cdot 10^9$ ) — the number of red, green and blue balloons respectively. The numbers are separated by exactly one space.

### Output

Print a single integer  $t$  — the maximum number of tables that can be decorated in the required manner.

### Examples

|        |
|--------|
| input  |
| 5 4 3  |
| output |
| 4      |

|        |
|--------|
| input  |
| 1 1 1  |
| output |
| 1      |

|        |
|--------|
| input  |
| 2 3 3  |
| output |
| 2      |

### Note

In the first sample you can decorate the tables with the following balloon sets: "rgg", "gbb", "brr", "rrg", where "r", "g" and "b" represent the red, green and blue balls, respectively.