

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.

Codeforces Round #273 (Div. 2)

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Problem tags

greedy

No tag edit access

→ Contest materials

- Announcement