05 [Fundamental]: Table decorations

Table decorations

- **Problem**
- 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.

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- **Input**

The single line contains three integers r, g and b ($0 \le r, g, b \le 2 \cdot 10^9$) — the number of red, green and blue baloons 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.

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- **Test case**

input
5 4 3
output
4

input
1 1 1
output
1

input
2 3 3
output
2

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- **Evaluation strategy**

	Term	Credit
1	Is the designed algorithm proper to solve this problem?	20
2	Is proper data structure designed?	20
3	Are the test cases solved correctly? (3 test cases)	60