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# **Newcomers Training , Do Your Best**



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## G. Katryoshka

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

The Egyptian football team will be in Russia for the World Cup. Of course, they all would like to buy souvenirs for their families. Luckily, they met the king of souvenirs Matryoshka who is famous for his masterpiece Katryoshka. He makes it using different wooden pieces: **eyes**, **mouths** and **bodies**. He can form a nice Katryoshka using one of the following combinations:

- 1. Two eyes and one body.
- 2. Two eyes, one mouth, and one body.
- 3. One eye, one mouth, and one body.

If the king has n eyes, m mouths and k bodies, what is the largest number of Katryoshkas he can make?

### Input

Only one line containing three numbers n, m and k ( $0 \le n, m, k \le 10^{18}$ ) – the number of eyes, mouths and bodies respectively.

### Output

Print the largest number of Katryoshkas he can make.

### **Examples**

| input    | Сору |
|----------|------|
| 1 2 3    |      |
| output   | Сору |
| 1        |      |
| input    | Сору |
| 0 11 2   |      |
| output   | Сору |
| 0        |      |
| input    | Сору |
| 90 24 89 |      |
| output   | Сору |
| 57       |      |

# Assiut University Training Newcomers Public Participant







