ICPC Assiut University Community
Newcomers Training ,Do Your Best

| 🇬🇧 🇷🇺
Ahmed_Essam_Yassin | Logout

HOME   TOP   CATALOG   CONTESTS   GYM   PROBLEMSET   GROUPS   RATING   EDU   API   CALENDAR   HELP

PROBLEMS   SUBMIT CODE   MY SUBMISSIONS   STATUS   STANDINGS   CUSTOM INVOCATION

N. 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 of the famous Russian souvenir Matryoshka; the king makes his masterpiece Katryoshka using different kinds of pieces: wooden eyes, wooden mouths, and wooden bodies. He can form a nice Katryoshka using one of the following ways:

1-Two eyes and a body.

2-Two eyes, mouth and a body.

3-Eye, mouth and a body.

If the king has n eyes, m mouths, and k bodies, what is the largest number of Katryoshkas that can be made by the king?

Input
One line contains 3 space separated integers n, m, k the number of eyes, mouths and bodies respectively. where $(0 \leq n, m, k \leq 10^{18})$.

Output
One integer which is the largest number of nice Katryoshka pieces.

Examples

input	Copy
1 2 3	

output	Copy
1	

input	Copy
0 11 2	

output	Copy
0	

input	Copy
90 24 89	

output	Copy
57	