

A. Another One Bites The Dust

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

Let's call a string *good* if and only if it consists of only two types of letters — 'a' and 'b' and every two consecutive letters are distinct. For example "baba" and "aba" are good strings and "abb" is a bad string.

You have *a* strings "a", *b* strings "b" and *c* strings "ab". You want to choose some subset of these strings and concatenate them in any arbitrarily order.

What is the length of the longest good string you can obtain this way?

Input

The first line contains three positive integers *a*, *b*, *c* ($1 \leq a, b, c \leq 10^9$) — the number of strings "a", "b" and "ab" respectively.

Output

Print a single number — the maximum possible length of the good string you can obtain.

Examples

input	Copy
1 1 1	
output	Copy
4	

input	Copy
2 1 2	
output	Copy
7	

input	Copy
3 5 2	
output	Copy
11	

input	Copy
2 2 1	
output	Copy
6	

input	Copy
1000000000 1000000000 1000000000	
output	Copy
4000000000	

Note

- In the first example the optimal string is "baba".
- In the second example the optimal string is "abababa".
- In the third example the optimal string is "bababababab".

Codeforces Global Round 3

Finished

Practice



→ 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

→ Practice

You are registered for practice. You can solve problems unofficially. Results can be found in the contest status and in the bottom of standings.

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?

Language: GNU G++11 5.1.0

Choose file:

选择文件

 未选择任何文件

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

Submit

→ Last submissions

Submission	Time	Verdict
54922525	Jun/01/2019 17:49	Accepted

→ Problem tags

greedy *700

No tag edit access

→ Contest materials

In the fourth example the optimal string is "ababab".

- Announcement #1 (en) ☐
- Announcement #2 (ru) ☐

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