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

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C. Very Easy Task

time limit per test: 2 seconds❓
memory limit per test: 256 megabytes

This morning the jury decided to add one more, Very Easy Problem to the problemset of the olympiad. The executive secretary of the Organizing Committee has printed its statement in one copy, and now they need to make n more copies before the start of the olympiad. They have two copiers at his disposal, one of which copies a sheet in x seconds, and the other in y seconds. (It is allowed to use one copier or both at the same time. You can copy not only from the original, but also from the copy.) Help them find out what is the minimum time they need to make n copies of the statement.

Input

The program receives three integers n, x, and y ($1 \le n \le 2 \cdot 10^8$, $1 \le x, y \le 10$).

Output

Print one integer, the minimum time in seconds required to get n copies.

Examples

input	Copy
4 1 1	

output	Copy
3	

input	Copy
5 1 2	

output	Copy
4	