A. The number of positions

time limit per test: 0.5 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

Petr stands in line of n people, but he doesn't know exactly which position he occupies. He can say that there are no less than a people standing in front of him and no more than b people standing behind him. Find the number of different positions Petr can occupy.

Input

The only line contains three integers n, a and b ($0 \le a, b < n \le 100$).

Output

Print the single number — the number of the sought positions.

Examples

input
3 1 1
output
2

input
5 2 3
output
3

Note

The possible positions in the first sample are: 2 and 3 (if we number the positions starting with 1).

In the second sample they are 3, 4 and 5.