

The first argument is the integer A.
The second argument is the integer B.
The third argument is the integer C.

Input Format

$$1 \leq A \leq 10^5$$
$$1 \leq B \leq A$$
$$B < C \leq A$$

Problem Constraints

Note : Since, the answer can be very large, output the answer modulo 10^9+7 .

Find the number of virus cells in the vial after A days.

On a new day, the cell will die (if it is supposed to die) before it gives birth to new cells.
The virus starts giving birth to a new cell every day after B days and it also dies after C days.
A lab was trying to synthesize a new virus. They had 1 cell of that virus in a vial on day 1.

Problem Description

Covid - 202

Q21 > Q22

DSA section

S2

Section Test 2025 - 5A030825803