On day 1, one person discovers a secret.

You are given an integer delay, which means that each person will **share** the secret with a new person **every day**, starting from delay days after discovering the secret. You are also given an integer forget, which means that each person will **forget** the secret forget days after discovering it. A person **cannot** share the secret on the same day they forgot it, or on any day afterwards.

Given an integer n, return*the number of people who know the secret at the end of day*n. Since the answer may be very large, return it **modulo** 109 + 7.

**Example 1:**

**Input:** n = 6, delay = 2, forget = 4

**Output:** 5

**Explanation:**

Day 1: Suppose the first person is named A. (1 person)

Day 2: A is the only person who knows the secret. (1 person)

Day 3: A shares the secret with a new person, B. (2 people)

Day 4: A shares the secret with a new person, C. (3 people)

Day 5: A forgets the secret, and B shares the secret with a new person, D. (3 people)

Day 6: B shares the secret with E, and C shares the secret with F. (5 people)

**Example 2:**

**Input:** n = 4, delay = 1, forget = 3

**Output:** 6

**Explanation:**

Day 1: The first person is named A. (1 person)

Day 2: A shares the secret with B. (2 people)

Day 3: A and B share the secret with 2 new people, C and D. (4 people)

Day 4: A forgets the secret. B, C, and D share the secret with 3 new people. (6 people)

**Constraints:**

* 2 <= n <= 1000
* 1 <= delay < forget <= n