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5865. First Day Where You Have Been in All the Rooms

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There are n rooms you need to visit, labeled from 0 to n-1. Each day is labeled, starting from 0. You will go in and visit one room a day.

Initially on day 0, you visit room 0. The order you visit the rooms for the coming days is determined by the following rules and a given 0-indexed array nextVisit of length n:

- Assuming that on a day, you visit room i,
- if you have been in room i an odd number of times (including the current visit), on the next day you will visit the room specified by nextVisit[i] where 0 <= nextVisit[i] <= i;
- if you have been in room i an even number of times (including the current visit), on the next day you will visit room $(i + 1) \mod n$.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Return the label of the first day where you have been in all the rooms. It can be shown that such a day exists. Since the answer may be very large, return it modulo 109 + 7.

Example 1:

Input: nextVisit = [0,0]Output: 2 **Explanation:** - On day 0, you visit room 0. The total times you have been in room 0 is 1, which is odd. On the next day you will visit room nextVisit[0] = 0 - On day 1, you visit room 0, The total times you have been in room 0 is 2, which is even. On the next day you will visit room $(0 + 1) \mod 2 = 1$ - On day 2, you visit room 1. This is the first day where you have been in all the rooms.

Example 2:

Input: nextVisit = [0,0,2]Output: 6 **Explanation:** Your room visiting order for each day is: [0,0,1,0,0,1,2,...]. Day 6 is the first day where you have been in all the rooms.

Example 3:

Input: nextVisit = [0,1,2,0]Output: 6 **Explanation:** Your room visiting order for each day is: [0,0,1,1,2,2,3,...]. Day 6 is the first day where you have been in all the rooms.

Constraints:

- n == nextVisit.length
- $2 <= n <= 10^5$
- 0 <= nextVisit[i] <= i</pre>



```
1 | /**
       * @param {number[]} nextVisit
   2
       * @return {number}
  3
  4
   5 var firstDayBeenInAllRooms = function(nextVisit) {
   7
      };
☐ Custom Testcase
                       Use Example Testcases
                                                                                                                            △ Submit
                                                                                                                 Run
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