2336. Sm	nalles [.]	t Numbe	r in Infir	nite S	et	Hint	···
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You have a set which contains all positive integers [1, 2, 3, 4, 5, ...].

Implement the SmallestInfiniteSet class:

- SmallestInfiniteSet() Initializes the SmallestInfiniteSet object to contain all positive integers.
- Int popSmallest() Removes and returns the smallest integer contained in the infinite set.
- void addBack(int num) Adds a positive integer num back into the infinite set, if it is not already in the infinite set.

Example 1:

Input

["SmallestInfiniteSet", "addBack", "popSmallest", "popSmallest", "popSmallest", "addBack", "popSmallest", "popS

[[], [2], [], [], [], [1], [], [], []]

Output

[null, null, 1, 2, 3, null, 1, 4, 5]

Explanation

Constraints:

- 1 <= num <= 1000
- At most 1000 calls will be made in total to popSmallest and addBack.

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