

1845. Seat Reservation Manager

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Medium Topics Companies Hint
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Design a system that manages the reservation state of $\, n \,$ seats that are numbered from $\, 1 \,$ to $\, n \,$.

Implement the SeatManager class:

- SeatManager(int n) Initializes a SeatManager object that will manage n seats numbered from 1 to n. All seats are initially available.
- int reserve() Fetches the **smallest-numbered** unreserved seat, reserves it, and returns its number.
- void unreserve(int seatNumber) Unreserves the seat with the given seatNumber.

Example 1:

Input

seatManager.unreserve(5); // Unreserve seat 5, so now the available seats are [5].

Constraints:

- 1 <= n <= 10⁵
- 1 <= seatNumber <= n
- For each call to reserve, it is guaranteed that there will be at least one unreserved seat.
- For each call to unreserve, it is guaranteed that seatNumber will be reserved.
- At most 10⁵ calls in total will be made to reserve and unreserve.

Seen this question in a real interview before? 1/4

Yes No

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Hint 1

Hint 2

Hint 3

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