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(Easy)

5601. Design an Ordered Stream

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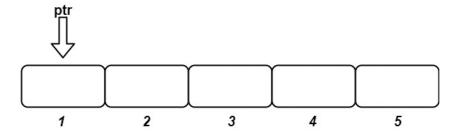
There are n (id, value) pairs, where id is an integer between 1 and n and value is a string. No two pairs have the same id.

Design a stream that takes the n pairs in an arbitrary order, and returns the values over several calls in increasing order of their ids.

Implement the OrderedStream class:

- OrderedStream(int n) Constructs the stream to take n values and sets a current ptr to 1.
- String[] insert(int id, String value) Stores the new (id, value) pair in the stream. After storing
 - o If the stream has stored a pair with id = ptr, then find the longest contiguous incrementing sequence of ids starting with id = ptr, then find the longest contiguous incrementing sequence of ids starting with id = ptr, then find the longest contiguous incrementing sequence of ids starting with id = ptr, then find the longest contiguous incrementing sequence of ids starting with id = ptr, then find the longest contiguous incrementing sequence of ids starting with id = ptr, then find the longest contiguous incrementing sequence of ids starting with id = ptr, then find the longest contiguous incrementing sequence of ids starting with id = ptr, then find the longest contiguous incrementing sequence of ids starting with id = ptr, then find the longest contiguous incrementing sequence of ids starting with id = ptr, then find the longest contiguous incrementing sequence of ids starting with id = ptr, then find the longest contiguous incrementing sequence of ids starting with id = ptr, then find the longest contiguous incrementing sequence of ids starting with id = ptr, then find the longest contiguous incrementing sequence of ids starting with id = ptr, then find the longest contiguous incrementing sequence of ids starting with ids sequence of ids starting with ids sequence of i return a list of the values associated with those ids in order. Then, update ptr to the last id + 1.
 - o Otherwise, return an empty list.

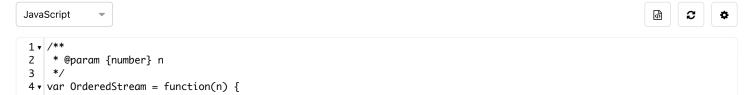
Example:



```
Input
["OrderedStream", "insert", "insert", "insert", "insert"]
[[5], [3, "ccccc"], [1, "aaaaa"], [2, "bbbbb"], [5, "eeeee"], [4, "ddddd"]]
[null, [], ["aaaaa"], ["bbbbb", "ccccc"], [], ["ddddd", "eeeee"]]
Explanation
OrderedStream os= new OrderedStream(5);
os.insert(3, "ccccc"); // Inserts (3, "ccccc"), returns [].
os.insert(1, "aaaaa"); // Inserts (1, "aaaaa"), returns ["aaaaa"].
os.insert(2, "bbbbb"); // Inserts (2, "bbbbb"), returns ["bbbbb", "ccccc"]. os.insert(5, "eeeee"); // Inserts (5, "eeeee"), returns [].
os.insert(4, "ddddd"); // Inserts (4, "ddddd"), returns ["ddddd", "eeeee"].
```

Constraints:

- 1 <= n <= 1000
- 1 <= id <= n
- value.length == 5
- · value consists only of lowercase letters.
- Each call to insert will have a unique id.
- Exactly n calls will be made to insert.



```
5
 6
   };
 7
8 🔻 /**
9
    * @param {number} id
    * @param {string} value
10
     * @return {string[]}
11
12
13 ▼ OrderedStream.prototype.insert = function(id, value) {
14
15
   };
16
17 🗸 /**
18
     * Your OrderedStream object will be instantiated and called as such:
     * var obj = new OrderedStream(n)
19
     * var param_1 = obj.insert(id,value)
20
21
```

 $\ \square$ Custom Testcase

Use Example Testcases



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