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5530. Fancy Sequence

My Submissions (/contest/biweekly-contest-37/problems/fancy-sequence/submissions/) Back to Contest (/contest/biweekly-contest-37/) Write an API that generates fancy sequences using the append, addAll, and multAll operations. User Accepted: 0 Implement the Fancy class: **User Tried:** 0 Fancy() Initializes the object with an empty sequence. void append(val) Appends an integer val to the end of the sequence. **Total Accepted:** 0 • void addAll(inc) Increments all existing values in the sequence by an integer inc. Total Submissions: 0 void multAll(m) Multiplies all existing values in the sequence by an integer m. • int getIndex(idx) Gets the current value at index idx (0-indexed) of the sequence modulo 109 + 7. If Difficulty: (Hard) the index is greater or equal than the length of the sequence, return -1.

Discuss(/discuss/)

Example 1:

```
Input
["Fancy", "append", "addAll", "append", "multAll", "getIndex", "addAll", "append", "multAll", "getIndex", "get
[[], [2], [3], [7], [2], [0], [3], [10], [2], [0], [1], [2]]
[null, null, null, null, null, null, null, null, null, 26, 34, 20]
Explanation
Fancy fancy = new Fancy();
fancy.append(2);
                 // fancy sequence: [2]
fancy.addAll(3);
                  // fancy sequence: [2+3] -> [5]
fancy.append(7); // fancy sequence: [5, 7]
fancy.multAll(2); // fancy sequence: [5*2, 7*2] \rightarrow [10, 14]
fancy.getIndex(0); // return 10
fancy.addAll(3); // fancy sequence: [10+3, 14+3] -> [13, 17]
fancy.append(10); // fancy sequence: [13, 17, 10]
fancy.multAll(2); // fancy sequence: [13*2, 17*2, 10*2] \rightarrow [26, 34, 20]
fancy.getIndex(0); // return 26
fancy.getIndex(1); // return 34
fancy.getIndex(2); // return 20
```

Constraints:

- 1 <= val, inc, m <= 100
- $0 \le idx \le 10^5$
- \bullet At most 10⁵ calls total will be made to append, addAll, multAll, and getIndex.

```
JavaScript
                                                                                                                d)
                                                                                                                     2 *
1
2 var Fancy = function() {
 3
 4
   };
 5
6 ▼
 7
     * @param {number} val
 8
     * @return {void}
 9
10 ▼ Fancy.prototype.append = function(val) {
11
12
   };
13
14 🗸 /**
15
     * @param {number} inc
16
     * @return {void}
17
18 ▼ Fancy.prototype.addAll = function(inc) {
```

```
19
20
   };
21
22 - /**
     * @param {number} m
23
     * @return {void}
24
25
26 ▼ Fancy.prototype.multAll = function(m) {
27
28
   };
29
30 ▼ /**
     * @param {number} idx
31
     * @return {number}
32
33
34 ▼ Fancy.prototype.getIndex = function(idx) {
35
36
   };
37
38 ▼ /**
     * Your Fancy object will be instantiated and called as such:
39
     * var obj = new Fancy()
40
     * obj.append(val)
41
     * obj.addAll(inc)
42
43
     * obj.multAll(m)
44
     * var param_4 = obj.getIndex(idx)
45
```

☐ Custom Testcase

Use Example Testcases

○ Run



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