

Count and Say

The count-and-say sequence is the sequence of integers beginning as follows:

1, 11, 21, 1211, 111221, ...

1 is read off as "one 1" or 11.

11 is read off as "two 1s" or 21.

21 is read off as "one 2", then "one 1" or 1211.

Given an integer n , generate the n^{th} sequence.

Note: The sequence of integers will be represented as a string.

Solution 1

It seems not only me misunderstood the question. Please modify the description, since it's frustrating if you are solving a "different" question. Thanks.

written by [boa1150](#) original link [here](#)

Solution 2

At the beginning, I got confusions about what is the nth sequence. Well, my solution is accepted now, so I'm going to give some examples of nth sequence here. The following are sequence from $n=1$ to $n=10$:

```
1.      1
2.      11
3.      21
4.      1211
5.      111221
6.      312211
7.      13112221
8.      1113213211
9.      31131211131221
10.     13211311123113112211
```

From the examples you can see, the $(i+1)$ th sequence is the "count and say" of the i th sequence!

Hope this helps!

written by [xin15](#) original link [here](#)

Solution 3

Because usually we start from the 0 th item, so add this description to avoid misunderstanding.

written by [yuyibestman](#) original link [here](#)

From [Leetcode](#).