

## Sequence

What is the next number in this sequence?

1

11

21

1211

111221

312211

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## Solution to Sequence

Starting with the second number in the sequence, each number is a quasi-verbal description of the previous number. So, the second number says that the first number is “one 1” (11). The third number says that the second number is “two 1’s” (21). The next says “one 2 and one 1” (1211). And so forth.

So the next number in the sequence is 13112221 (“one 3, one 1, two 2’s, and two 1’s”).

Interestingly enough, as the sequence grows, every new number in the sequence comprises only digits 1, 2 and 3.