

Exercise:

Write a function that compresses an alphabetical string by collapsing consecutive characters. The rules of the compression algorithm are defined by the test cases below.

Test cases:

1. **Input:** aaabccccdd
Output: a3bc4d2
2. **Input:** yyyyyzzzzzzzzzz
Output: y5z10
3. **Input:** abcd
Output: abcd (note: not a1b1c1d1)
4. **Input:** hhhccchhhccc
Output: h3c3h3c3

Timeboxing:

The expected time allocation for this test is around 30 minutes.

What we're looking for:

Please add your completed C# code to DotNetFiddle (<https://dotnetfiddle.net>) and forward us the link. Here are some of the things we will be looking for when evaluating your code:

- Simple, clean and well-structured code that is easy to understand
- Appropriate handling of corner cases