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| **Assignment Case** | Description: LogoBINUS-University |
| CH1Special |
| **Periode Berlaku** Semester Ganjil 2021/2022  ***Valid on*** *Odd Semester Year 2021/2022* | **Software Laboratory Center**  **Assistant Recruitment 22-1** |

## **Soal**

*Case*

**Compressing a String**

Given a group of **characters**, compress it using the following algorith:

* Begin with empty string **result**.
* If the group length is 1, append the character to **result**.
* Otherwise, append the the character followed by the group’s length.

You must write an algorithm that use constant space, you can’t allocate more array except for the group of characters.

**Input**The program will ask for a single integer **n** followed by **n-characters** **chars**.

**Constraint**

1 ≤ n ≤2000

Chars[i] consists of English letter (uppercase or lowercase), digit or symbol.

**Output**Print the result of the compression.

**Example (Print out one ‘\n’ at the end of the results)**

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| **Input** | **Output** |
| 1  a | 1  a |
| 7  a a b b c c c | 6  a2b2c3 |