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FW: Compression

1 message

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From: Daily Byte**Sent:** Monday, July 24, 2023 6:09:34 AM (UTC-08:00) Pacific Time (US & Canada)**To:** William Ting**Subject:** Compression

The Daily Byte

Good morning,

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Today's Byte

This question is asked by Facebook. Given a character array, compress it in place and return the new length of the array.

Note: You should only compress the array if its compressed form will be at least as short as the length of its original form.

Ex: Given the following character array

chars ...

```
chars = ['a', 'a', 'a', 'a', 'a', 'a'], return 2.  
chars should be compressed to look like the following:  
chars = ['a', '6']
```

Ex: Given the following character array

chars ...

```
chars = ['a', 'a', 'b', 'b', 'c', 'c'], return 6.  
chars should be compressed to look like the following:
```

```
chars = ['a', '2', 'b', '2', 'c', '2']
```

Ex: Given the following character array

chars ...

```
chars = ['a', 'b', 'c'], return 3.  
In this case we chose not to compress chars.
```

Thanks,
The Daily Byte

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