2h 11m left

1. Better Compression



ALL

Consider a string, *S*, that is a series of characters, each followed by its frequency as an integer. The string is not compressed correctly, so there may be multiple occurrences of the same character. A properly compressed string will consist of one instance of each character in alphabetical order followed by the total count of that character within the string.



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Example

The string 'a3c9b2c1' has two instances where 'c' is followed by a count: once with 9 occurrences, and again with 1. It should be compressed to 'a3b2c10'.

2 Function Description

Complete the function *betterCompression* in the editor below.

betterCompression has the following parameter:S: a compressed string

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Returns:

string: the properly compressed string

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Constraints

- 1 ≤ size of S ≤ 100000
 - 'a' ≤ characters in S ≤ 'z'
 - 1 ≤ frequency of each character in S ≤ 1000

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► Input Format For Custom Testing

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▼ Sample Case 0

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Sample Input

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```
STDIN Function
---- ----
a12b56c1 → S = 'a12b56c1'
```

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Sample Output

a12b56c1