

Description of test-cases

Test-case 1:

We created a document with simple text and an emoji because the emojis have a UTF-8 code too. The text is a pangram that entails all 26 letters of the alphabet. The text and emoji were compressed and decompressed successfully.

Test-case 2:

We created a document with a single character that repeats multiple times. This requires us to account for the situation in which a single character occupies the root node in the tree and therefore will have a null path to the character. This can be solved by introducing a special condition that would add a root node to the tree in the situation that there is only one character.

Test-case 3:

A document with empty text that would return a null when compressed and decompressed.

Test-case 4:

Using the document of a larger file provided to us that entails the United States constitution.

Test-case 5:

Using the document of a larger file provided to us on the text War and Peace.

Compressed size of War and Peace text: **14493951 bits, 1.7 KB**