**Code Design Test: Data Compression Design**

Design an algorithm that will compress a given data buffer of bytes. Please describe your design and submit an implementation in Python.

Your submission will be judged based on

* The number of bytes your output uses if saved to file
* Run time
* Scalability
* Maintainability
* Testability

**Assumptions:**

1. *data* is an array of bytes. Each byte will contain a number from 0 to 127 (0x00 to 0x7F). It is common for the data in the buffer to have the same value repeated in the series.
2. The compressed data will need to be decompressable. Please ensure that your algorithm allows for a decompression algorithm to return the buffer to its previous form.

**Example:**

data = bytes([0x03, 0x74, 0x04, 0x04, 0x04, 0x35, 0x35, 0x64,

0x64, 0x64, 0x64, 0x00, 0x00, 0x00, 0x00, 0x00,

0x56, 0x45, 0x56, 0x56, 0x56, 0x09, 0x09, 0x09])

compressed\_bytes = byte\_compress(data)