## Compression algorithm

You are requested to implement a text compression algorithm, where:

* You are given a list of words
* The length of the given list may be much greater than the number of unique words

**Assignment:**

* 1. You are requested to write a compression method that
     1. Receives a list of words of unknown length as input
     2. Encodes each word
     3. Returns the encoding-table and an encodings-list, ordered by the appearances of the input words
  2. What would be a good strategy for encoding the set of words?
  3. Implement a decoding function, that given the encoding-table and the encodings-list, prints out the original list of words
  4. How would you test your compression method? Just answer textually.  
     Note: No need to implement. No need to describe all possible test cases and edge scenarios. You may assume that all inputs are legal and valid.
     1. Which features of the system should you test?
     2. Which of those are functional features? (I.e. is the system working as expected). Could you describe one of them in more details?
     3. Which of those are “performance” features? (I.e. how well is the system working). Could you describe one of them in more details?