1 TF/IDF weighting and the Vector Space Model

Given is a document collection with two documents:

**Document 1:**
* A good cook could cook as much cookies as a good cook who could cook cookies.

**Document 2:**
* Best chocolate chip cookies recipe.

1. Index both documents using an inverted index. Apply case folding, use stop words list: \{a, as\}. Include TF and DF values at suitable positions in the index.

2. Compute the cosine similarity between these documents and the following queries. Apply the `ltc` weighting from the lecture.
   * $Q_1 = $ cookies
   * $Q_2 = $ how to cook chocolate cake

3. Explain the similarity scores! How would the result change with the `lnc` weighting?