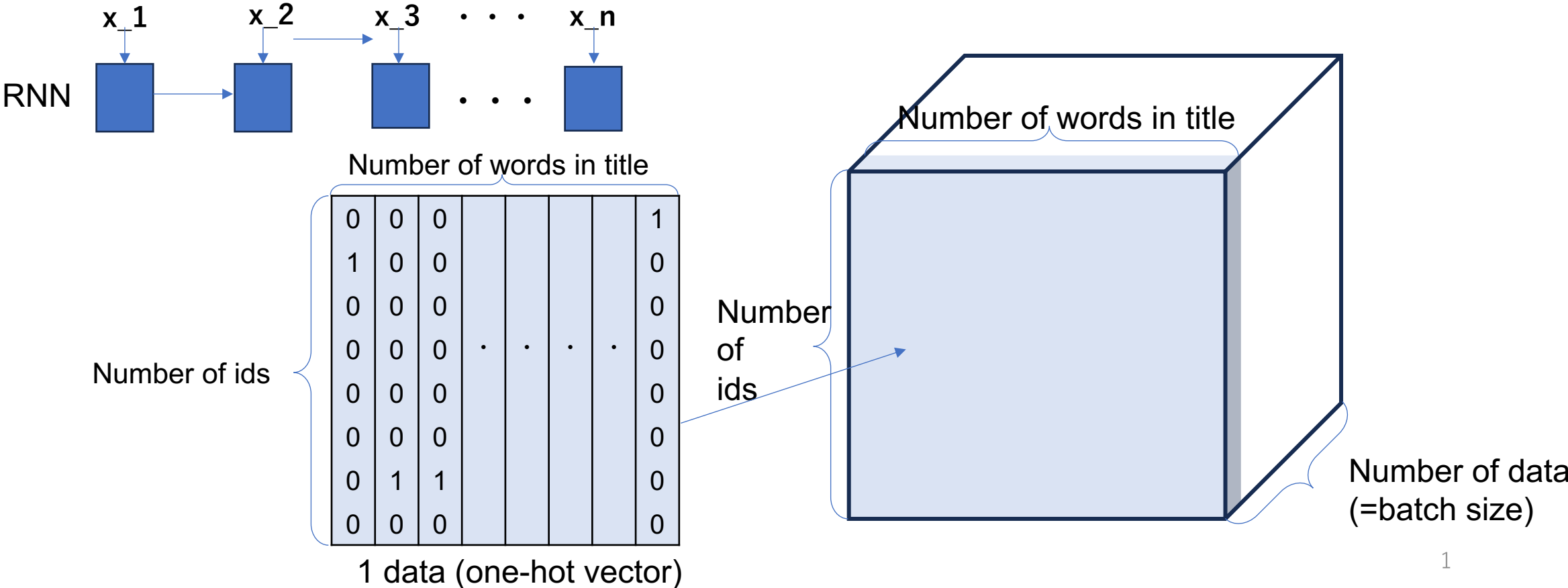


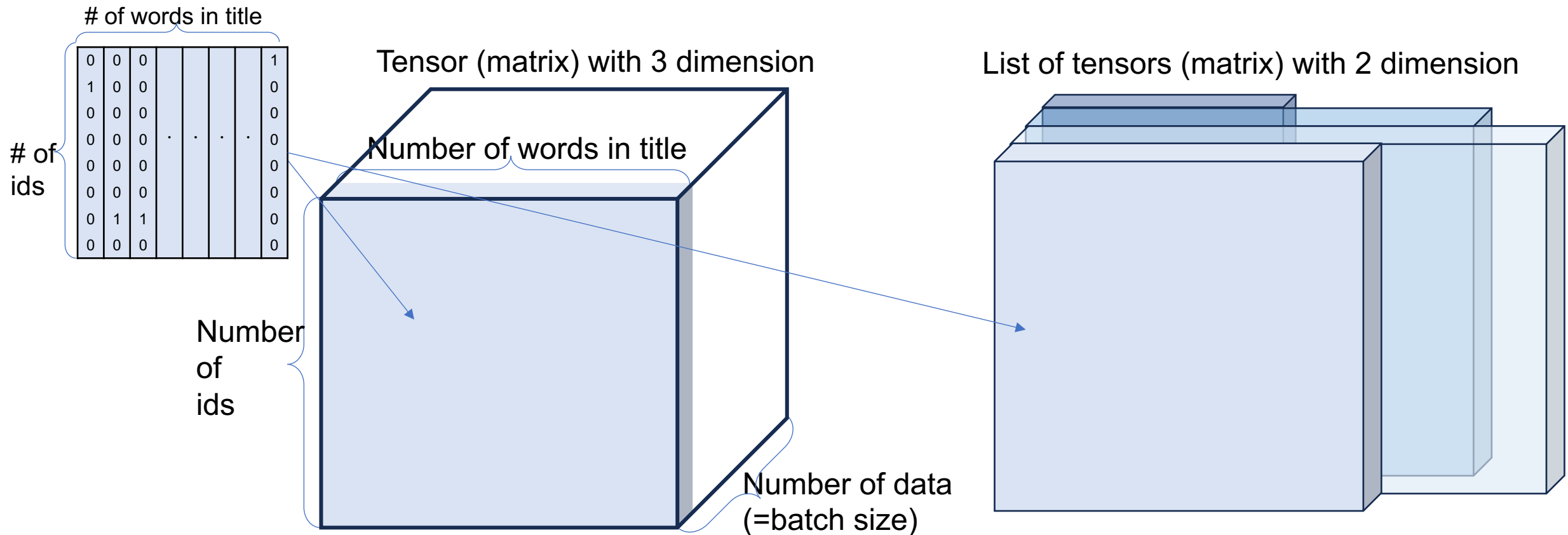
# Supplementary materials for task 81: The reason for setting the length of vectors

- RNN model can handle the data of which length is not determined. Intuitively, it seems unnecessary to set all data shapes to the same form.
- However, when I created data with different column lengths, I failed to train the RNN model.
- The reason is that RNN usually receives data as batches (not one by one), and defines the number of cells to be prepared (in task 81 case, the numbers of cells correspond to the number of words in titles).



## Supplementary materials for task 81: The reason for setting the length of vectors

- In other words, RNN wants to know the number of words (the number of inputs) to determine the number of cells to be prepared when it is trained.
- If we did not set the length of vectors, RNN would receive the list of tensors with 2 dimensions and not be able to handle it (that's why I failed).



- Theoretically, if the batch size is 1, RNN models can handle data (ex. chapter9\_81test.py).