HW7

- 1.

- A. For an extractive question answering task, an encoder-only model like BERT encodes the question and text into vectors, and then passes these vectors through a softmax layer to produce a probability distribution over each position in the text, determining which positions are the start and end points of the answer. Then, we use them to find the answer in original text.
- B. For an extractive question answering task, a decoder-only model like GPT adds a special token as the start point of the answer after the input text, and generates a token sequence until it generates another special token as the end point of the answer. Then, the sequence is returned and all tokens after the start token are selected as the answer.

- 2.

- I compared the two prompts on the right and found that using the English prompt significantly worsened the performance in the Chinese-dominated article.
- I compared the two prompts on the right, and found that using the declare-then-command prompt didn't make the performance better, but significantly worse.
- I compared the two prompts on the right, and found that in the case of using a prompt that declares first and then commands, using an all-Chinese description in a Chinese-dominated article will lead to better performance (but the prompt described directly using natural language is still better).

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