Hello Professor and TAs, this is team 36. Our topic of the final project is: The ruthless exam taking machine -- an NLP application on taking tests.

In our final project, we expect to build a machine which can predict the answer of the questions in the college entrance exam with the help of NLP.

2.

Our motivation for choosing this topic is that we all suffered from the English Exams during high school, especially for those lengthy articles in the reading section, we barely have enough time to finish the test! Since the question pattern and logic in English exams are similar and consistent in most of the cases, we want to design a model which can help us solve those questions automatically and conquer the English test effortlessly.

(Of course, this may not be allowed during real test)

3.

The main goal of our model is to generate answers for certain types of questions, such as factual questions in the reading comprehension section as well as questions in the sentence filling section. And eventually reach a higher correctness as possible.

4.

Here are some methods we may utilize in our project:

For the data resource of our model, we may refer to test papers of previous years provided by the College Entrance Examination Center and other resources such as mock exams in the past few years, which can be easily found on the internet.

During preprocessing, we should filter the articles and questions involved with images and some special cases of questions that may not contribute to our prediction.

BERT may be a helpful tool for us to finish the project. It is a well known model and is generally utilized in the NLP area.

As for the output of the model, we expect it to generate the predicted answers in a table form in order to compare the results with the standard answer.