

CS3023

Intermediate Programming

Lab 8 A

Name:

Question 1

The Jack programming language has three types of comments:

1. Single line comment that starts with `//` and ends with a new line character

```
// this is a single line comment
```

2. Multi-line comment that starts with `/*` and ends with `*/`

```
/* This is a multi-line comment that could span  
multiple lines */
```

3. API doc comment that starts with `/**` and ends with `*/`

```
/** Special API comment that is used to place  
description of a function or other type of  
coding unit. Used to generate doc manual */
```

Write a function that removes all comments from a given Jack source file. The result is saved to another file.

```
def remove_comments(source, destination):  
    '''  
  
    Remove all comments from source and save the resulting  
    Jack program with no comments in destination file.  
  
    :param source:      name of the Jack source file  
    :param destination: name of the destination file for  
                        storing source file all comments  
                        removed  
  
    :return: None  
    '''
```

.Assume the source file has no syntax errors. Notice that just seeing a single `/` is not an indication of beginning of a comment. You have to check at least two characters `//` or `/*` to determine the beginning of a comment. For this exercise, we really don't have to distinguish Type 2 and Type 3 comments.

Open the starter file `cs3203_lab8a_q1.py`. Complete the class and save it. Use the same filename.