Quantum Algorithms, Spring 2022: Lecture X Scribe

Scribes' Names

January 20, 2022

1 Recap

A short recap of the previous lecture. Scribe the current lecture from the next section. Remove the instructions section.

2 Instructions

1. Do not use all CAPS in titles. Replace the X with lecture number. Replace scribes' names with your names.
2. Use notation used in the class. (vectors, variables, matrices, sets, etc.)
3. All variables must be in math mode. That is $ $. For example, we write n-dimensional and not n-dimensional.
4. Center all tables and figures.
5. Number and label all important equations and leave out the unimportant ones.
6. You can use

   ```
   \autoref{eq:use_suitable_name}
   ```

   to refer equations/tables/figures.
7. Use

   ```
   \citet{example}
   ```

   to refer to the bibliography. Example: **?**] is an example.
8. Do not use boldface to emphasize anything. Use command emph provided by latex.
9. As far as possible create your own examples/figures. If any figure is downloaded from internet, please mention appropriate image credits.
10. Do not create images from textbook and paste them. You will get zero marks.
11. If you are new to latex, this hyperlink might be useful. Overleaf has good resources too.
12. Submit a zip file that contains all the required resources, including the PDF of your scribe, source, images, bibliography, etc.
13. Please use sensible conventions, indentations and avoid annoying mistakes in the course file.

Example on how to use theorem, definition, lemma, etc. environments:

```
\begin{theorem}[Theorem Name]
\label{thm:inappropriate_text}

    Theorem text

\end{theorem}

\begin{proof}

Proof by Obviousness. Hence proved.

\end{proof}


\begin{corollary}[Corollary Name]
\label{cor:less_inappropriate_text}
    Corollary text
\end{corollary}

\begin{proof}
    Proof by Lack of sufficient time. Hence proved.
\end{proof}
```

You may play around to find out more.