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Write a design document which describes your group's strategy for programming the project. This document should be well-written, using proper English and nice formatting. Write it with a level of detail such that you could give it to someone else to finish the actual implementation. (GIVE THEM AN EXAMPLE? Possibly for something like tik-tac-toe)

Before starting your design, you should carefully read the requirements for parts B and C (including the optional components and extra credit options).

The document should include the following sections:

1. UI sketch: give a proposal on how you will use text-only input and output to get a nice looking game. To do this, present a detailed sample run of the game which shows several turns of the game play, demonstrating different use-case scenarios.
2. Class diagram: include a UML class diagram showing your proposed classes. Show is-a relationships with UML inheritance arrows, and has-a relationships with UML associations. Include the data members and major public methods. (During the design process, remember to consider how you will manage unit testing of the various pieces.)
3. Class overview: given your proposed classes and methods, describe how they will be used, in particular for the sample run you gave in the UI sketch. In other words, describe the information flow through objects and their methods to illustrate how the game play corresponds to your OO design.
4. An implementation plan with the following information:
   * What the primary responsibilities of each team member will be relative to the overall project (including the design document and demo preparation).
   * Which team member(s) will be primarily responsible for each component of your project code.
   * How you plan to integrate work done separately by pairs (recommended) or individuals.
   * The development schedule, which includes deadlines for your various project stages. (Note: integration will take much longer than you expect!)

Only one design document should be submitted on Blackboard per team. The document itself must be a *single* pdf document. It should be well written and nicely formatted. There is no length requirement for this document. However, a one page document is probably too short and a 15 page document would put us to sleep (unless it had lots of pictures). 4-8 pages with figures is appropriate.