

The AI player guesses letters and the intermediate output is sent to the screen as above. Spend a little time to think of a good but simple strategy for guessing letters. For example, your AI might select letters based on the frequency of their occurrence in English words. Or your program may do reasoning about the requirement for words to have vowels, etc. Start with a very simple implementation and add features for extra credit.

Team Interaction

After reviewing the assignment, schedule a meeting with all of the team members (each team should consist of 2 or 3 students). Discuss how you will design and implement the code, and divide the implementation tasks equally among the team members. As appropriate define the *interface* between the different portions of the code. What classes will you create and what are the function prototypes?

Each team member must then *individually implement and test their portion of the project*. Being able to test your code in isolation is an important skill. How can you determine if your partial implementation is correct? Depending on your assigned tasks, this testing may involve making a temporary `main()` function that calls your new functions or classes with fake data, or creating fake *stub* functions or classes that have an empty body or implementation, which will be completed by your teammates.

Once each team member's individual implementation is complete, the team should meet again to put the pieces together. Now you'll need to work as a group to fix the bugs and modify the implementations as necessary. Be sure to create test cases that thoroughly exercise your program.

Project Submission

Put the source code and sample dictionary files for your project in a new folder named `hw7` inside of your CSII homeworks directory. Include a file named `README_team.txt` that lists the names of all team members, sample command lines and instructions that demonstrate the features of your program, and any comments you wish the grader to read. When you are finished please zip up the folder and submit it through the course webpage under the "Homework 7 Team Code Submission" link using the RCS login of one of the team members. **Only one submission of the source code per team is required.** This group submission is worth 40 points of the assignment grade.

Additionally, each team member must submit a file named `README_individual.txt` under the "Homework 7 Individual README" link. Do not zip the file or submit any directory structure. This file should describe the portions of the project that were assigned to the individual, how this code was tested prior to merging it with the rest of the team's code, and how the team worked together. This writeup should be concise (approximately 200 words) and well written and is worth 10 points of your overall grade.