

# Suggested steps for implementing PA#2

Do the work in this order, to avoid being overwhelmed and to get partial credit for each step accomplished.

1. Review the Time class demo, especially the version with three separate files.
2. **Optional step:** make a single file, call it main.cpp. Put your Question class declaration and member function definitions in there, then put the int main() function from QuestionTester.cpp (from downloadable files) in there. Compile and run, make sure you get the expected output. Now you need to put the code in separate files:
3. Create the Question class declaration and put it in a file called Question.h
4. Create the Question.cpp file. Put the member function definitions in there.
5. Download the QuestionTester.cpp file from the zyBooks assignment, if you haven't already. Compile it with your Question.h and Question.cpp files (make sure you have the #includes correct) and run it.
  - Fix any syntax errors in YOUR files so it all compiles together.
  - Fix your member functions so they output the expected output (see comments at bottom of QuestionTester.cpp).
6. Create a QuizDriver.cpp file with a main function. In main, create a Question object (a variable of type Question), initialize to whatever data. Also input the 2 input values (filename and question count), but do not use these values yet. Compile this new file with your Question.\* files. Submit all three files to zyBooks. You should be able to pass the first 4 tests (if you have implemented the member functions properly).
7. In your QuizDriver.cpp file, delete the Question object code and create an array of Question.
8. Input data from the questions.txt (or questions1.txt) file (downloaded from zyBooks):
  - copy questions.txt (and/or questions1.txt) to your directory
  - in main of QuizDriver.cpp:
    - ✦ Set up the ifstream variable (use the filename from standard input to open the file).
    - ✦ In a for loop, input the 7 lines of data for each question using getline 7 times. Use the input question count value to limit the for loop.
    - ✦ Assign the strings for the stem, answers, and hint to the corresponding object in the array. You'll need to declare an array for the answers.
    - ✦ Get the first character of the Key string to set the key member.
    - ✦ Output the data (maybe use the ask function) to validate your input process, then delete this code.
9. After you input the questions:
  - Add a loop to ask each of the questions
  - For each question, process the hint if requested, and their answer, and sum up the value of the question if it's correct.
  - After the loop, output the answer key and score.
10. Test your code and submit your three files to zybooks for grading, repeat until complete or the deadline.

Please compile your code in a Linux/Unix environment at some point.