CS FINAL PROJECT

Created by: Luke Reardon and Hillel Zweig

Nov. 18, 2013: 11:45am-12:40pm

Begin to formulate the structure of the final project. Additions to the SubjectTutor program including geometric and volumetric problem sets.

1. Main menu
   1. Arithmetic
      1. Addition
      2. Subtraction
      3. Multiplication
      4. Division
   2. Perimeters
      1. Circle
      2. Triangle
      3. Square
      4. Rectangle
      5. Pentagon
      6. Hexagon
      7. Octagon
   3. Area
      1. Circle
      2. Triangle
      3. Square
      4. Rectangle
      5. Trapezoid
      6. Parallelogram
   4. Volume
      1. Sphere
      2. Cylinder
      3. Cube
      4. Regular triangular prisms
      5. Regular rectangular prisms
      6. Cones
2. Report/Retry functions
   1. Report correct and incorrect totals, including ratio/percentage.
   2. Retry problems within subjects where errors were made, allowing user to gain more practice in a difficult subject.
   3. Report new progress and repeat if necessary.

Nov. 18, 2013: 8:00pm-10:00pm

We worked on our code to accommodate both our programs into one larger code file utilizing both our programing skills. Integrated new ASCII art to include both creators. I worked on menus that work in each subject and exit to a main menu. Luke created the area functions.

Nov. 19, 2013: 7:25pm-9:30pm

Luke worked on the perimeter functions. I worked on the retry and report functions for each subject type, and created a global retry menu.

We ran into a problem with the calculating of the area of a parallelogram because our function used “int” variable type for the answer instead of a “double” variable type. We also accumulated our codes together fully, integrating both my overall format/architecture and Luke’s individual functions.

Luke finished perimeter and area functions. I finished the organization of the prototypes and functions, along with report and retry functions allowing users to go back and retry any problem type from a new menu.

Nov. 20, 2013: 11:40am-12:40pm

I did a basic reformatting to remove extra spaces and justify everything to the left. Luke worked on creating the volumetric functions and integrating an in-problem retry for every problem within every subject type.

Nov. 20, 2013: 8:15pm-9:55pm

Luke finished the volumetric and retry functions, correcting the retry because I used the wrong array to complete it. I started the PowerPoint presentation for the final. General reformatting and cleaning up throughout the code was completed by both of us.

Dec. 2, 2013: 11:40am-12:40pm

We made our prototype folder as due today. Retested our code, looking for bugs. Worked on PowerPoint and creating header files.

Dec. 4, 2013: 11:25am-12:40pm

We worked more on header file conversions from original code to header files (XXX.h). Basic whitespace removal from all code to condense length.

Dec. 6, 2013: 11:25am-12:40pm

We worked more on header file conversions from original code to header files (XXX.h). Started converting function definitions to C++ files (XXX.cpp).

Dec. 9, 2013: 11:40am-12:45pm

Created all XXX.cpp files. Finished making header files to work. Code finally works!

Dec. 12, 2013: 12:00pm-12:30pm

Wrote and organized script for December 13, 2013 presentation.