

CSI701 - Adam Cadien
Assignment #1
9/23/09

I decided to design this project in an object oriented fashion so that the majority of my code will be re-usable on future assignments. A description of the class:

Triangle: Composed of 3 integer arrays representing the 3 points of a triangle. In addition to getter methods (triangles can only be set at the time of initialization) the calcArea() method is the primary purpose of this class.

I felt that creating point and element classes would have been redundant and that it was much simpler to keep them in large container arrays. The main() function is in trimesh.cpp. After loading the data from iostreams in to data arrays main() runs through the points array and finds the bounding box. To compute the working area, triangle objects are created and the area of each is summed. Results are printed to stdout.