DS-GA-3001.017/.018 Special Topics: Scientific Visualization

Assignment 1: Corner Table Data Structure

Due date: February 20

Build a code to read a triangle mesh in *.off* format and structure it in a corner table data structure. To attest the correctness of your code, read the file "socket.off" (download from NYU classes repository) and print:

1) The coordinates of the vertices linked to the vertex with index 3 (assuming the vertices are indexed from 0).
2) The coordinates of the vertices making up the face (triangle) with index 3.
3) The coordinates of the vertices of the triangles sharing an edge with the triangle with index 3.

PS. Details about *.off* files can be found in http://people.sc.fsu.edu/~jburkardt/data/off/off.html