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## Project Plan

**Goal:** Our project aims to explain and visualize the Iterative Deepening Search (or Iterative Deepening Depth-First Search) in 3D.

**Plan:** To demonstrate our algorithm, we plan to create a tree out of 3D objects/geometries while updating the shading of said objects as we traverse the tree. We will also include a GUI that will allow a user to control the maximum depth of the search as well as toggle certain settings. This allows us to show the strengths and weaknesses of the algorithm rather than just demonstrating one test case.

**Deliverable:** We will be delivering our code, sample screenshots, and a README file explaining what the GUI controls allow you to do.