

### Practice assignment 4

#### Solid Modeling

**Q 1:** Suppose that you are asked to build a 3D modeling software; this software can create only one type of solid primitives, which is cubes. Every primitive instance is initially created at the origin of the 3D coordinate space with lengths equal to 1 meter, as shown in Figure 1. You will use these primitives to build a 3D model for the GUC B buildings, B1 to B7.

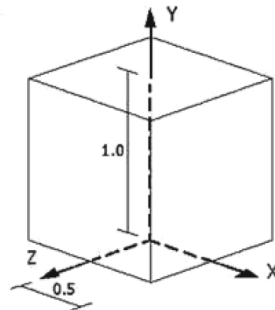


Figure 1: Unit Cube

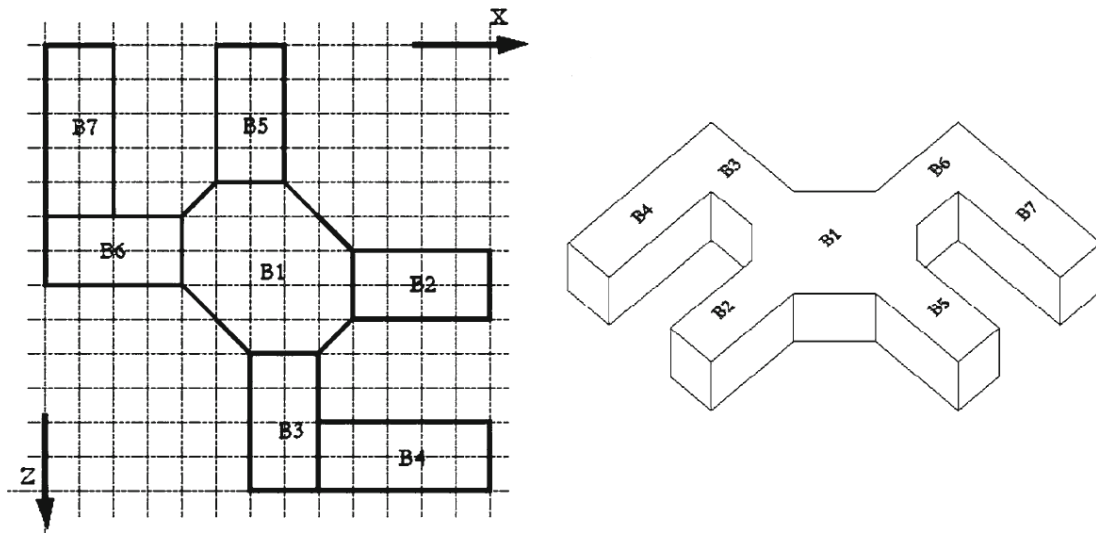


Figure 2: GUC Model