How to get that quadtree in Z-order (for line segments in unit square)

Input: file with for each line segment its endpoints.

Algorithm:

- 1. Sort bounding box vertices of line segments into list $L = \{L_1, ..., L_m\}$ in Z-order
- 2. For $i \leftarrow 1$ to m:
 - ullet find smallest cell Q that contains L_i and L_{i+1} ;
 - ullet output cell boundaries of Q and its subquadrants

