CSE 464- Computational Geometry Sessional

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**Data Structures used:** ArrayList, Pair

**Edges that intersect with current sweep line:** I have checked each edge and if the edge has one vertex above and the other below current sweep line and if the edge is at strictly left of the current polygon vertex where the sweep line resides, then I stored the edge. The checking of strictly left edge was done by using the gradient formula for a point and a line. Then I checked the perpendicular distance from the current vertex to the stored edges and took the shortest distant edge as the immediate left edge of the vertex.