CSE-474
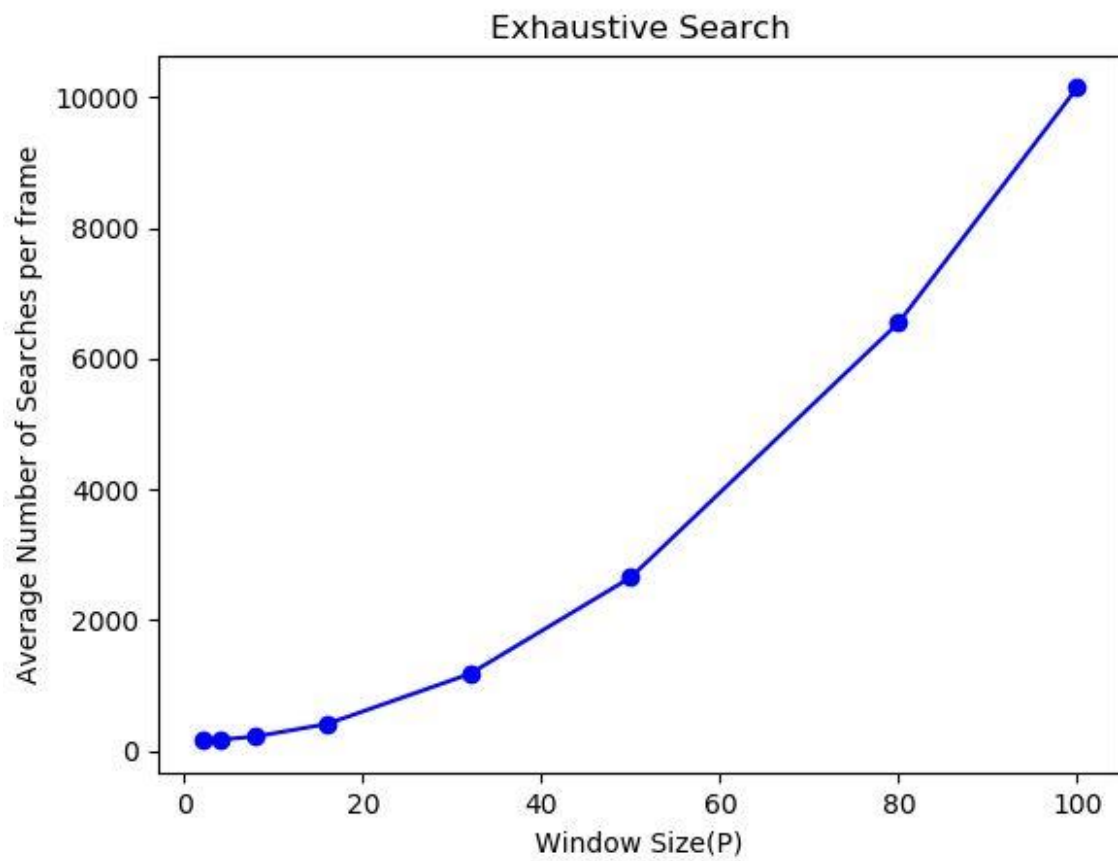
Offline 4: Experimental Results

Student ID: 1405022
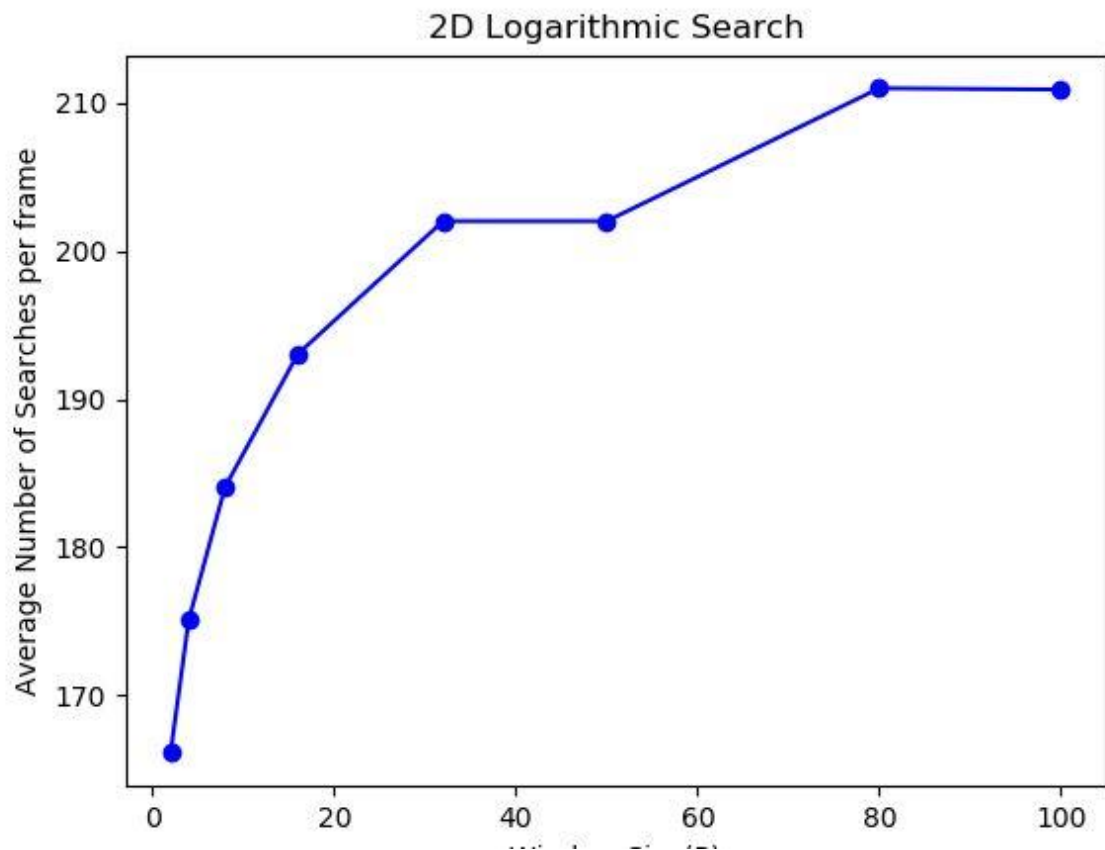
1. Performance Comparison of Three Methods

P	Average Number of Searches Per Frame		
	Exhaustive	Logarithmic	Hierarchical
2	158.9263	166.0736	193.0381
4	173.0644	175.0618	193.0381
8	221.0013	184.05	193.0381
16	412.7486	193.0381	209.0171
32	1179.7381	202.0263	264.9434
50	2653.796	202.0263	351.9381
80	6548.6644	211.0144	585.7618
100	10143.92763	210.9236	718.5684

2. Plot of Performance of Exhaustive Method

Exhaustive Search

3. Plot of Performance of Logarithmic Method

2D Logarithmic Search

4. **Plot of Performance of Hierarchical Method**

Hierarchical Search