

## Assignment 4

### Convex Hull, Comparison

#### Case 1: All points lie on the convex hull

Input size(n)	Graham Scan	Quickhull	Gift Wrapping
100	0.000294	0.000451	0.000753
1000	0.001989	0.000412	0.042996
2000	0.005037	0.001702	0.111825
5000	0.012544	0.003681	0.395437
10000	0.02316	0.007169	1.46533

#### Case 2: No. of points lying on the convex hull $\neq n$ .

Input size(n)	Gift Wrapping	Graham Scan	Quickhull
100	0.000498	0.000563	0.000582
1000	0.002062	0.002802	0.000848
2000	0.003633	0.006656	0.00211
5000	0.010625	0.016679	0.009918
10000	0.012773	0.032376	0.011639

