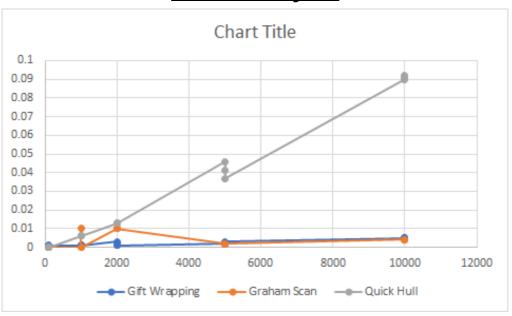
Chart Analysis



Comparison Table

Input Size	Gift Wrapping	Graham Scan	Quick Hull
100	0	0	0
100	0	0	0
100	0.001	0	0
1000	0.001	0	0.006
1000	0.001	0.01	0.006
1000	0.001	0	0.006
2000	0.003	0.01	0.013
2000	0.001	0.01	0.013
2000	0.001	0.01	0.013
5000	0.002	0.002	0.046
5000	0.002	0.002	0.041
5000	0.003	0.002	0.037
10000	0.005	0.004	0.09
10000	0.005	0.004	0.091
10000	0.005	0.004	0.092

Special Case Analysis

1) Gift Wrapping Algorithm

• Input Size: 100

Convex Hull SIze: 100 Execution Time: 0.001

• Input Size: 1000

Convex Hull Size: 1000 Execution Time: 0.054

• Input Size: 2000

Convex Hull SIze: 2000 Execution Time: 0.08

• Input Size: 5000

Convex Hull SIze: 5000 Execution Time: 0.499

Input Size: 10000

Convex Hull SIze: 10000 Execution Time: 1.891

2) Graham Scan

Input Size: 100

Convex Hull SIze: 100 Execution Time: 0

• Input Size: 1000

Convex Hull SIze: 1000 Execution Time: 0

• Input Size: 2000

Convex Hull Size: 2000 Execution Time: 0.001

• Input Size: 5000

Convex Hull SIze: 5000 Execution Time: 0.001

• Input Size: 10000

Convex Hull SIze: 10000 Execution Time: 0.003

3) Quick Hull

• Input Size: 100

Convex Hull Size: 100 Execution Time: 0.001

• Input Size: 1000

Convex Hull SIze: 1000 Execution Time: 0.009

• Input Size: 2000

Convex Hull SIze: 2000 Execution Time: 0.022

• Input Size: 5000

Convex Hull SIze: 5000 Execution Time: 0.113

• Input Size: 10000

Convex Hull SIze: 10000 Execution Time: 0.201