

Chart showing the time for execution for
algorithms vs test-cases

Test-case input length	Gift Wrapping algorithm	Graham Scan algorithm	Quick Hull algorithm
100	3.5e-05	2.9e-05	1.2e-05
1000	0.000267	0.000266	7.3e-05
2000	0.000521	0.000438	0.000537
5000	0.000573	0.000532	0.00032
10000	0.001183	0.001057	0.000623

These test-cases are generated using “SPOJ Toolkit Test-case generator”.

And the test-cases are uploaded in github repository.

Now for a fixed input size and varying number of convex hull points a table is made.

Input size is 8.

The three test-cases are

8	8	8
1 0	1 0	1 0
2 0	2 0	2 0
3 1	2 1	2 1
3 2	3 2	3 2
2 3	2 3	2 3
1 3	1 3	1 3
0 2	0 2	1 2
0 1	0 1	0 1

No.of Convex Hull points	Gift Wrapping algorithm	Graham Scan algorithm	Quickhull algorithm
8	1.1e-05	6.4e-05	3e-06
7	9e-06	1.8e-05	4e-06
6	1e-05	4e-05	5e-06