Comparison between Graham scan and Gift Wrapping Algorithm:

Note: Python and C++ code is shared in the same folder. Given time is observed in Python compiler.

Part 1: n= no of points h= no of points in the hull t= time taken

Graham_Scan Algorithm	**Gift_Wrapping Algorithm**	
N= 100 h= 10 T= **0.0017346**	N= 100 h= 10 T= **0.00417**	N= 100 h= 12 T= **0.00486**
N= 1000 h= 15 T= **0.008477**	N= 1000 h= 15 T= **0.03061**	N= 1000 h= 21 T= **0.0427**
N= 2000 h= 19 T= **0.016328**	N= 2000 h= 19 T= **0.0790**	N= 2000 h= 27 T= **0.1077**
N= 5000 h= 23 T= **0.0408339**	N= 5000 h= 23 T= **0.2210**	N= 5000 h= 25 T= **0.2395**
N= 10000 h= 20 T= **0.0779**	N= 10000 h= 20 T= **0.4162**	N= 10000 h= 19 T= **0.38223**

Part 2: N = h

N = h	**Graham Scan Algorithm** Time taken	**Gift Wrapping Algorithm** Time taken
10	**0.000806**	**0.002236**
20	**0.0009229**	**0.002935**
30	**0.001172**	**0.004135**

Conclusion: Gift wrapping algorithm (O(n*h)) works better in case of n> > h as compare to Graham Scan algorithm (O(n logn)). In case of n=h or nearly equal then, case will be opposite to the mentioned one above.