Pseudo code:

GRAHAM_SCAN (Q)

1.   Find p_0 in Q with minimum y-coordinate (and minimum x-coordinate if there are ties).

2.   Sorted the remaining points of Q (that is, Q – {p_0}) by polar   angle in counterclockwise order with respect to p_0.

3.   TOP [S] = 0

4.   PUSH (p_0, S)

5.   PUSH (p_1, S)

6.   PUSH (p_2, S)

7.   For i = 3 to n

8.   do while the angle between NEXT_TO_TOP[S], TOP[S], and p_i makes a right turn

9.   do POP(S)

10.   PUSH (S, p_i)

11.   Return S