

## Quiz 1

S-P-C-H(P)

Input:  $P$  set of points ordered counterclockwise

Output:  $L$  list of vertices of  $CH(P)$  ordered clockwise

Begin

$L = [P[0], P[1]]$  (if this cannot be done  $|P| < 2$ , return  $P$ )

for  $p_i \in \{P[2], \dots, P[n]\}$

while  $\overrightarrow{L[-2]L[-1]}$  and  $\overrightarrow{L[-1]p_i}$  are counterclockwise and  $|L| \geq 3$

remove  $L[-1]$  from  $L$

Add  $p_i$  to  $L$

Return  $L$ .