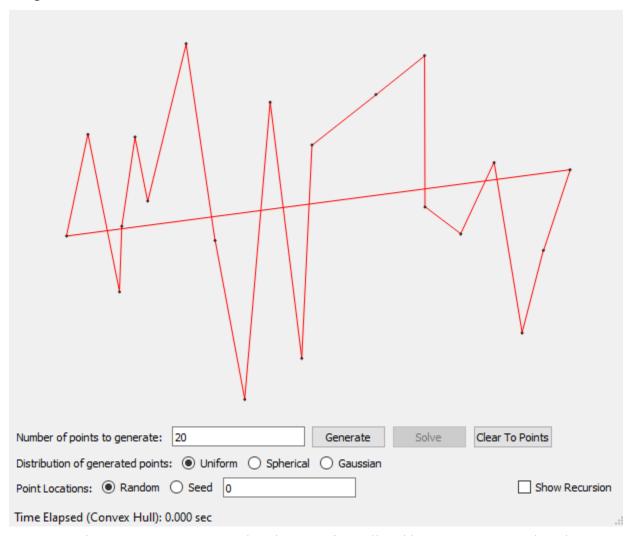
Thomas Neyman CS 4412 - Advanced Algorithms February 10 2022 Project 2

Convex Hull

Program:



I never got the program to run properly. The recursive call and base case are complete, however the part that I could never get to work was sorting the list in a clockwise manner. The lines are connected by increasing x value of points.

```
Pseudo Code:
def driver:
       points = []
       sort(points)
       divide hull(points)
       show hull()
def divide_hull(points):
       if len(points) == 1:
              return points
       left = points[0 : length/2]
       right = points[length/2 : length]
       max(left) = P
       min(right) = Q
       while direction PQ to PQ next is left:
              Q = Q_next
       while direction QP to QP_next is right:
              P = P next
       while direction PQ to PQ next is right:
              Q = Q_next
       while direction QP to QP_next is left:
              P = P_next
       new hull = left + right
       return new hull
Outcomes:
       None
Observations:
       Code does not work
```