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1
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1: function QUADRANTPOINT(src, dest)
 2:
         c \leftarrow x[dest] - x[src]
         d \leftarrow y[dest] - y[src]
 3:
         if c >= 0 and d > 0 then
 4:
              start \leftarrow 0
 5:
              end \leftarrow 90
 6:
 7:
         end if
         if c \le 0 and d > 0 then
 8:
              start \leftarrow 90
 9:
              end \leftarrow 180
10:
         end if
11:
12:
         if c < 0 and d <= 0 then
              start \leftarrow 180
13:
              end \leftarrow 270
14:
         end if
15:
         if c > 0 and d <= 0 then
16:
              start \leftarrow 270
17:
              end \leftarrow 360
18:
         end if
19:
         for i=0 to xlength do
20:
              c \leftarrow x[i] - x[src]
21:
              d \leftarrow y[i] - y[src]
if c == 0 and d == 0 then
22:
23:
                  continue
24:
              end if
25:
              \Theta \leftarrow atan(d/c)
26:
              \Theta \leftarrow \Theta * (180/3.145926)
27:
              if c = < 0 and d > = 0 then
28:
                  \Theta \leftarrow 180 - \Theta
29:
              end if
30:
              if c \le 0 and d < 0 then
31:
                  \Theta \leftarrow 180 + \Theta
32:
              end if
33:
             if c > 0 and d < 0 then
34:
                  \Theta \leftarrow 360 - \Theta
35:
              end if
36:
              if \Theta >= start and \Theta <= end then
37:
                  pointsx \leftarrow x[i]
38:
                  pointsy \leftarrow y[i]
39:
              end if
40:
         end for
41:
42:
         Call NeighborsList()
43: end function
```