length of points-arr

```
find-closest-pair (points-arr, n)
    num
           find-min-dist (points-arr, n) new letter
else

L = find- L (points-arr, n) make right 1

f = find 11-1-1-1
            if n = 3
              f, = find-closest_pair (points_arr_left, =)
              fr = And - closest pair (points -arr_night, =)
              8 = min (8, 82)
              for each point in points_arr
Naive
                 if L-point.x/20
                    Add point to My
              My = merge - sort (My, My-length, 'y')
Stide 9
               dm = closest_cross-pair (My, f)
               return din
    rum find_L (points_arr, n)
            points - arr = menge - sort (points - arr, 'x')
             L= points -arr [=]
             return L
          Presort
Enhanced
            presorted by - y = weige sort [ points - arr, 'y']
            presorted - by- x = wege - sort [points arr, 'x']
```

for each point in presorted-by-y Enhanced if | L-point x | < f add point to My num find min-dist (points-arr, n) to 3
for each one for each point in points\_arr curr-min = /(point,x)2+ (point,y)2 if urr\_min < min min = uur-min return min land and all and all and all arr mage sort (points-arr, n, char 'y' or 'x') if char == 'y' sort by y else sort by x Pseudo code for closest cross pair, merge -sort in slides void if for every point if point, x < L put in points-arr-left points \_arr\_right