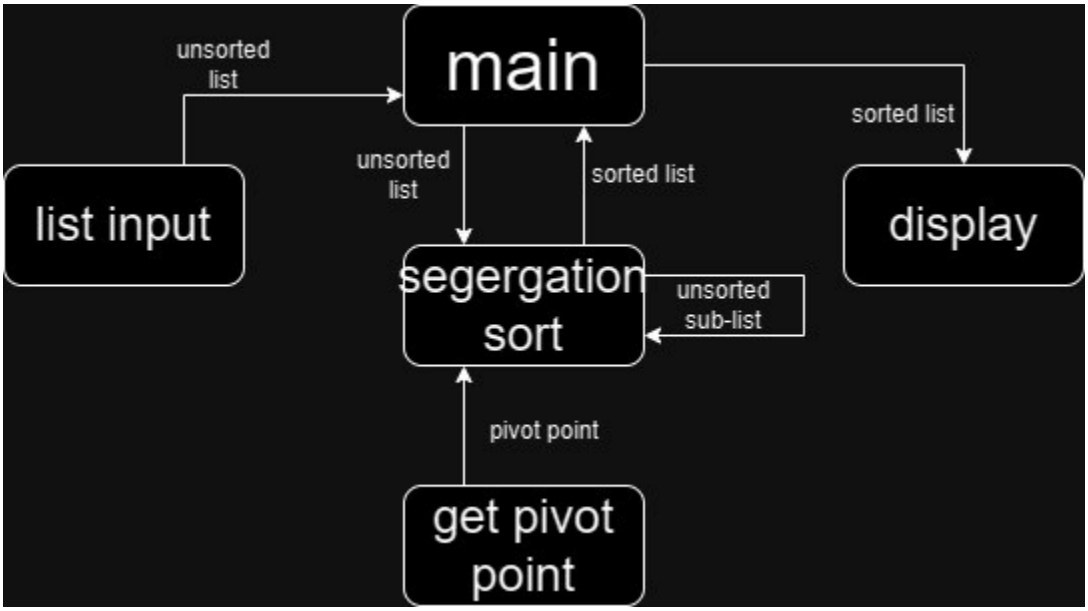


```
function segregation_sort(array, i_start, i_end)
   if i_start < i_end
      i_pivot = choose_pivot_index(array, i_start, i_end)
      i_up = i_start
      i_down = i_end

      while i_up < i_down
         while array[i_up] < array[i_pivot] and i_up < i_end
            i_up = i_up + 1

         while array[i_down] >= array[i_pivot] and i_down > i_start
            i_down = i_down - 1

         if i_up < i_down
            swap(array[i_up], array[i_down])

      swap(array[i_pivot], array[i_down])

      segregation_sort(array, i_start, i_down - 1)
      segregation_sort(array, i_down + 1, i_end)

function choose_pivot_index(array, i_start, i_end)
   return (i_start + i_end) / 2
```