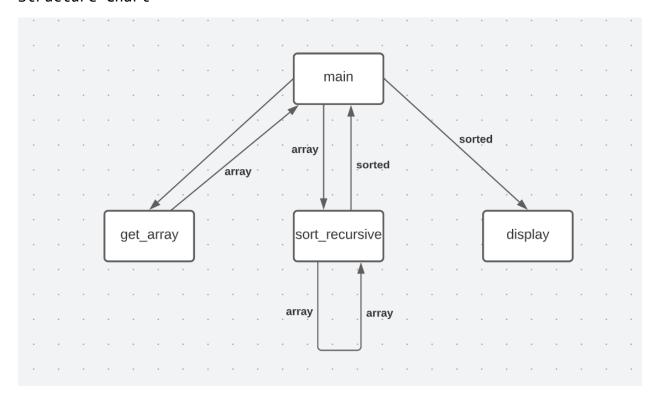
Structure Chart



Segregation Sort Psuedocode

```
array[i_start], array[i_end] = array[i_end], array[i_start]
        RETURN array
IF (i_pivot == 0 or i_end == i_start):
        RETURN array
WHILE (NOT end_found and not start_found):
        WHILE (i_up <= i_pivot AND NOT start_found):</pre>
                 IF (array[i_up] > array[i_pivot]):
                         start_found = true
                 ELIF (i_up + 1 == i_pivot):
                         i_up += 1
                         start_found = TRUE
                 ELSE:
                         i_up += 1
        WHILE (i_down > i_pivot AND NOT end_found)
                IF (array[i_down] < array[i_pivot]):</pre>
                         end_found = true
                 ELSE:
                         i_down -= 1
        IF (start_found and end_found or i_down == i_pivot):
                 IF (i_up == i_pivot):
                         i_pivot = i_down
                         start_found = TRUE
                         end_found = TRUE
                 ELSE:
                         start_found = FALSE
                         end_found = FALSE
                 array[i_up], array[i_down] = array[i_down], array[i_up]
front = sort_recursive(array, i_start, i_up)
back = sort_recursive(front, i_pivot + 1, i_end)
RETURN back
```