

```

def segregation_sort( array, begin, end )
    IF end - begin < 1 OR < 0
        RETURN

    i_pivot <- int( ( begin + end ) / 2 )
    i_up <- begin
    i_down <- end

    WHILE i_up < i_down
        WHILE i_up < i_down AND array[ i_up ] < array[ i_pivot ]
            i_up += 1
        WHILE i_up < i_down AND array[ i_up ] >= array[ i_pivot ]
            i_down -= 1
        IF i_up < i_down
            IF i_down == i_pivot
                i_pivot <- i_up
            ELIF i_up == i_pivot
                i_pivot <- i_down
            array[ i_up ], array[ i_down ] <- array[ i_down ], array[ i_up ]

        array[ i_up ], array[ i_pivot ] <- array[ i_pivot ], array[ i_up ]
        segregation_sort( array, begin, i_up )
        segregation_sort( array, i_up + 1, end )
    END

```