MergeSort:

```
function mergeSort(array num [ ], start, end){

        if (size of num <= 0) {
                return
        }

        Mid = n/2
        array left := first half of the num array
        Array right := the rest of the array;

        mergeSort(left, start, mid)
        mergeSort(num, mid + 1, end)
        sort(num, start, end)
}

Function sort(array num [ ], start, end) {
        mid := (start + end ) / 2
        I := start
        J := mid + 1
        array temp [ ]

        while( i <= mid and j <= end)
        {
                if ( num[ i ] < num[ j ] )
                {
                        append num[ I ] to temp
                        I ++
                }
                Else {
                        append num[ J ] to temp
                        J++
                }
        }




        while (i < mid ){
                append num[ i ] to temp
```

```
            I++
        }

        while (J < mid ){
            append num[ J ] to temp
            J++
        }

        for ( every element in temp ){
            Copy the elements in the num array in accordance to the indices;
        }
}
```