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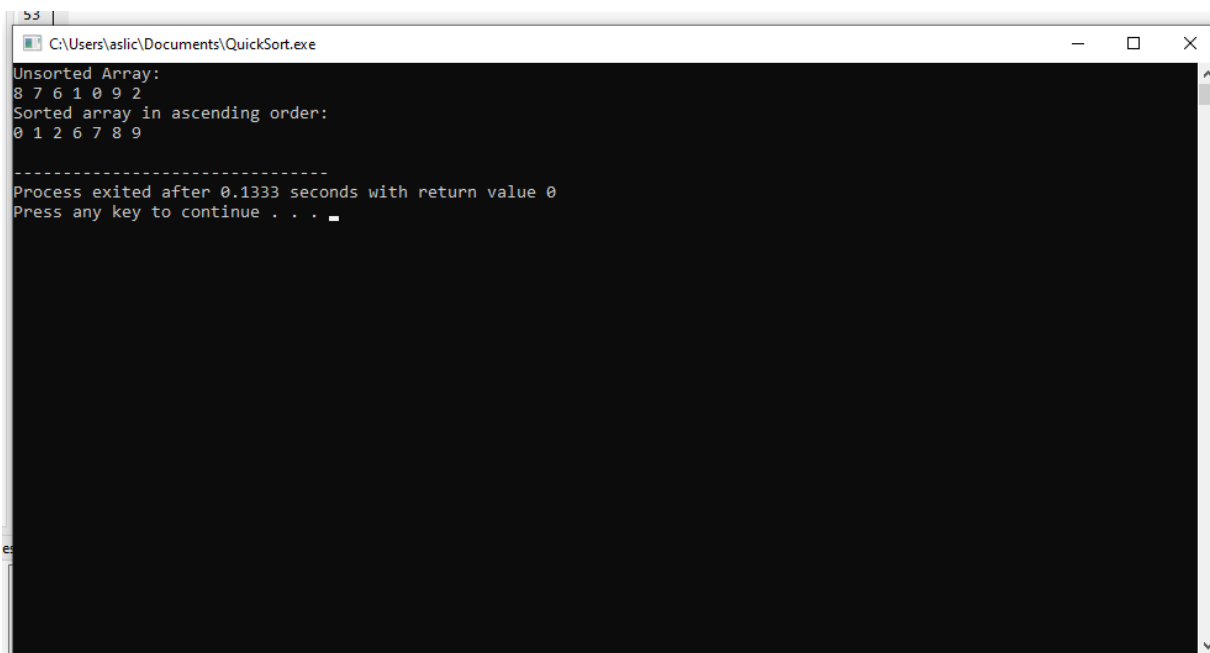
NIM : 210401010043

Kelas : IT 106

Algoritma QuickSort

```
quickSort(array, leftmostIndex, rightmostIndex)
  if (leftmostIndex < rightmostIndex)
    pivotIndex <- partition(array, leftmostIndex, rightmostIndex)
    quickSort(array, leftmostIndex, pivotIndex - 1)
    quickSort(array, pivotIndex, rightmostIndex)

partition(array, leftmostIndex, rightmostIndex)
  set rightmostIndex as pivotIndex
  storeIndex <- leftmostIndex - 1
  for i <- leftmostIndex + 1 to rightmostIndex
    if element[i] < pivotElement
      swap element[i] and element[storeIndex]
      storeIndex++
  swap pivotElement and element[storeIndex+1]
  return storeIndex + 1
```

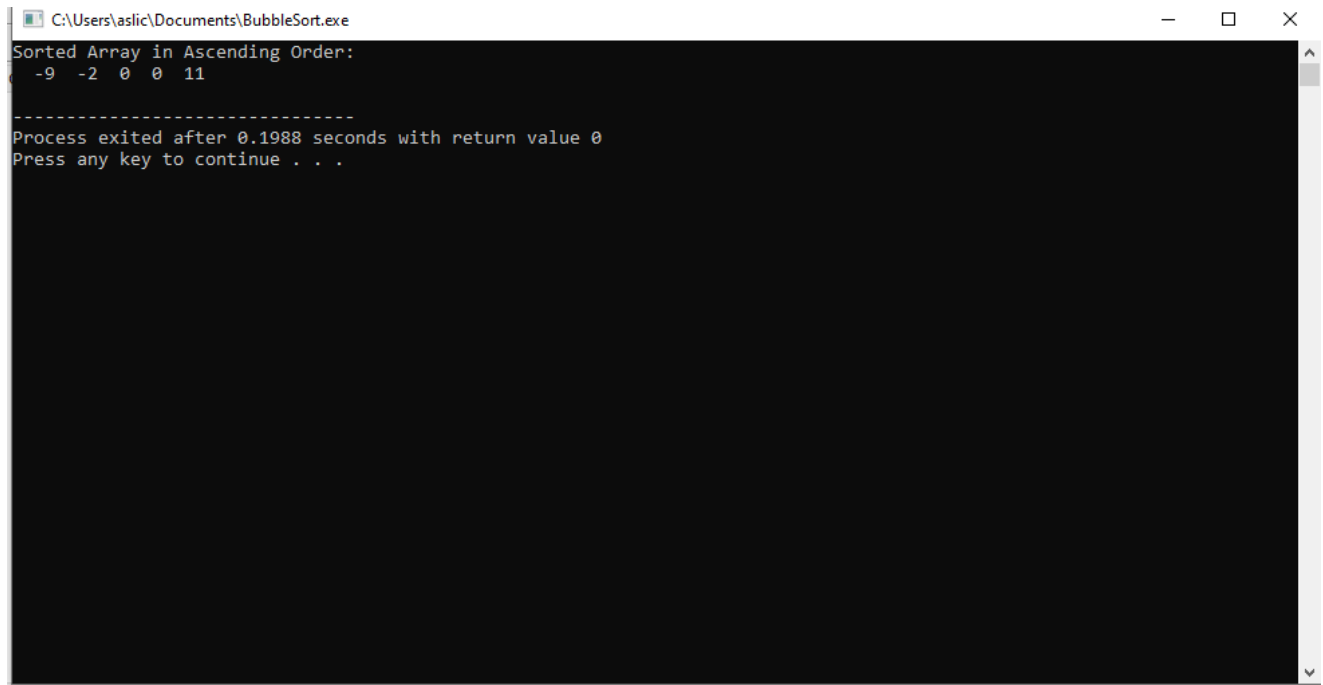


```
53 C:\Users\aslic\Documents\QuickSort.exe
Unsorted Array:
8 7 6 1 0 9 2
Sorted array in ascending order:
0 1 2 6 7 8 9

-----
Process exited after 0.1333 seconds with return value 0
Press any key to continue . . .
```

Algoritma BubbleSort

```
bubbleSort(array)
  for i <- 1 to indexOfLastUnsortedElement-1
    if leftElement > rightElement
      swap leftElement and rightElement
  end bubbleSort
```



```
C:\Users\aslic\Documents\BubbleSort.exe
Sorted Array in Ascending Order:
-9 -2 0 0 11
-----
Process exited after 0.1988 seconds with return value 0
Press any key to continue . . .
```

Daftar Referensi :

- <https://www.programiz.com/dsa/quick-sort>
- <https://www.programiz.com/dsa/bubble-sort>