

Enter the size of the array:

5

Enter the 5 numbers to be sorted

5

4

3

2

1

Array to be sorted:

[5], [4], [3], [2], [1],

Sorting algorithm started:

[4], [5], [3], [2], [1],

[4], [3], [5], [2], [1],

[3], [4], [5], [2], [1],

[3], [4], [2], [5], [1],

[3], [2], [4], [5], [1],

[2], [3], [4], [5], [1],

[2], [3], [4], [1], [5],

[2], [3], [1], [4], [5],

[2], [1], [3], [4], [5],

[1], [2], [3], [4], [5],

Enter the size of the array:

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Array to be sorted:

[5], [4], [3], [2], [1],

Sorting algorithm started:

[4], [5], [3], [2], [1],

[4], [3], [5], [2], [1],

[3], [4], [5], [2], [1],

[3], [4], [2], [5], [1],

[3], [2], [4], [5], [1],

[2], [3], [4], [5], [1],

[2], [3], [4], [1], [5],

[2], [3], [1], [4], [5],

[2], [1], [3], [4], [5],

[1], [2], [3], [4], [5],

Amount of swaps: 10

Enter the size of the array:

5

Enter the 5 numbers to be sorted

5

4

3

2

1

Array to be sorted:

[5], [4], [3], [2], [1],

Sorting algorithm started:

[Index: 0, Value: 5], [Index: 1, Value: 4]

[Index: 0, Value: 5], [Index: 2, Value: 3]

[Index: 0, Value: 5], [Index: 3, Value: 2]

[Index: 0, Value: 5], [Index: 4, Value: 1]

[Index: 1, Value: 4], [Index: 2, Value: 3]

[Index: 1, Value: 4], [Index: 3, Value: 2]

[Index: 1, Value: 4], [Index: 4, Value: 1]

[Index: 2, Value: 3], [Index: 3, Value: 2]

[Index: 2, Value: 3], [Index: 4, Value: 1]

[Index: 3, Value: 2], [Index: 4, Value: 1]

Amount of inversions: 10

The content of the array:

[5], [4], [3], [2], [1],

[4], [5], [3], [2], [1],

[4], [3], [5], [2], [1],

[3], [4], [5], [2], [1],

[3], [4], [2], [5], [1],

[3], [2], [4], [5], [1],

[2], [3], [4], [5], [1],

[2], [3], [4], [1], [5],

[2], [3], [1], [4], [5],

[2], [1], [3], [4], [5],

[1], [2], [3], [4], [5],

Amount of swaps: 10

Data before ordered:

[7], [2], [-4], [-8], [7], [0], [-3], [-12], [2],

Data now ordered:

[-4], [-8], [-3], [-12], [7], [0], [7], [2], [2],

Mergesort took 16 milliseconds to process 40000 integers in Worst Case Scenario

Mergesort took 15 milliseconds to process 40000 integers

Insertionsort took 1817 milliseconds to process 40000 integers in Worst Case Scenario

Insertionsort took 654 milliseconds to process 40000 integers

Hegeant took 209 milliseconds to process 10000 integers with cutoff 5