

## LINEAR SEARCH

Enter the number of elements: 5

Enter 5 elements:

5 4 2 3 1

The elements are:

5 4 2 3 1

-----

Enter the element to be searched: 4

Element found at index 1

-----

Process exited after 24.33 seconds with return value 0

Press any key to continue . . . |

## BUBBLE SORT AND BINARY SEARCH

Enter the number of elements: 5

Enter 5 elements:

5 4 3 2 1

PASS 1: 4 3 2 1 5

PASS 2: 3 2 1 4 5

PASS 3: 2 1 3 4 5

PASS 4: 1 2 3 4 5

-----  
Sorted array:

1 2 3 4 5

-----  
Enter the key to search: 5

Key found at index 4

-----  
Process exited after 4.909 seconds with return value 0  
Press any key to continue . . . |

## BUBBLE SORT

Enter the number of elements: 5

Enter 5 elements:

5 4 3 2 1

PASS 1: 4 3 2 1 5

PASS 2: 3 2 1 4 5

PASS 3: 2 1 3 4 5

PASS 4: 1 2 3 4 5

-----

Sorted array:

1 2 3 4 5

-----

Process exited after 8.396 seconds with return value 0

Press any key to continue . . . |

MERGE SORT

Enter the number of elements: 5

Enter 5 elements:

5 4 3 2 1

-----

Sorted array:

1 2 3 4 5

-----

Process exited after 4.705 seconds with return value 0

Press any key to continue . . . |

## SELECTION SORT

Enter the number of elements: 5

Enter 5 elements:

5 4 3 2 1

-----

Sorted array:

1 2 3 4 5

-----

Process exited after 5.337 seconds with return value 0

Press any key to continue . . . |

INSERTION SORT

Enter the number of elements: 5

Enter 5 elements:

5 4 3 2 1

-----

Sorted array:

1 2 3 4 5

-----

Process exited after 5.684 seconds with return value 0

Press any key to continue . . . |

## QUICK SORT

Enter the number of elements: 5

Enter 5 elements:

5 4 3 2 1

-----

Sorted array:

1 2 3 4 5

-----

Process exited after 16.26 seconds with return value 0

Press any key to continue . . . |