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insertion sort in c

Insertion sort in c: c program for insertion sort to sort numbers. This code implements insertion sort algorithm to arrange numbers of an array in ascending order. With a little modification it will arrange numbers in descending order.

Insertion sort algorithm implementation in c

```
/* insertion sort ascending order */

#include <stdio.h>

int main()
{
    int n, array[1000], c, d, t;

    printf("Enter number of elements\n");
    scanf("%d", &n);

    printf("Enter %d integers\n", n);

    for (c = 0; c < n; c++) {
        scanf("%d", &array[c]);
    }
}
```

- Factorial
- HCF and LCM
- Decimal to binary conversion
- nCr and nPr
- Add n numbers
- Swapping
- Reverse number
- Palindrome number
- Print Pattern
- Diamond
- Prime numbers
- Find armstrong number
- Generate armstrong number
- Fibonacci series
- Print floyd's triangle
- Print pascal triangle
- Addition using pointers
- Maximum element in array
- Minimum element in array
- Linear search
- Binary search

```

for (c = 1 ; c <= n - 1; c++) {
    d = c;

    while ( d > 0 && array[d] < array[d-1]) {
        t          = array[d];
        array[d]    = array[d-1];
        array[d-1] = t;

        d--;
    }
}

printf("Sorted list in ascending order:\n");

for (c = 0; c <= n - 1; c++) {
    printf("%d\n", array[c]);
}

return 0;
}

```

Compiler used: GCC

Output of program:

- [Reverse array](#)
- [Insert element in array](#)
- [Delete element from array](#)
- [Merge arrays](#)
- [Bubble sort](#)
- [Insertion sort](#)
- [Selection sort](#)
- [Add matrices](#)
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```
Enter number of elements
5
Enter 5 integers
4
1
-2
8
3
Sorted list in ascending order:
-2
1
3
4
8

Process returned 0 (0x0)   execution time : 11.527 s
Press ENTER to continue.
█
```

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