

Insertion Sort

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#include <stdio.h>
#include<stdlib.h>

void swap(int *x,int *y)
{
    int temp=*x;
    *x=*y;
    *y=temp;
}

void Insertion(int A[],int n)
{
    int i,j,x;

    for(i=1;i<n;i++)
    {
        j=i-1;
        x=A[i];
        while(j>=0 && A[j]>x)
        {
            A[j+1]=A[j];
            j--;
        }
        A[j+1]=x;
    }
}

int main()
{
    int A[]={11,13,7,12,16,9,24,5,10,3},n=10,i;

    Insertion(A,n);

    for(i=0;i<10;i++)
        printf("%d ",A[i]);
    printf("\n");
}
```

```
    return 0;  
}
```