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Heap Maintenance

Code Id 21
Date Updated 3/7/2010
Title Heap maintenance
Description

This is a program illustrating heap maintenance. It supports insertion and deletion.

Codes Snippet

```
# include
int arr[100],n;
main( )
{
    int choice,num;
    n=0;
    /*Represents number of nodes in the heap*/
    while( 1)
    {
        printf("1.Insertn");
        printf("2.Deleten");
        printf("3.Displayn");
        printf("4.Quitn");
        printf("Enter your choice: ");
        scanf("%d",&choice);
        switch( choice)
        {
            case 1:
                printf("Enter the number to be inserted: ");
                scanf("%d",&num);
                insert(num,n);
                n=n+ 1;
                break;
            case 2:
                printf("Enter the number to be deleted: ");
                scanf("%d",&num);
                del(num);
                break;
            case 3:
                display( );
                break;
            case 4:
                exit( );
            default:
                printf("Wrong choicen");
        } /*End of switch */
    } /*End of while */
} /*End of main( )*/
display( )
{
    int i;
    if(n==0)
    {
        printf("Heap is emptyn");
        return;
    }
    for(i=0;i0)
    {
        par=(loc-1 )/2;
        if(num<=arr[par ])
        {
            arr[loc ]=num;
            return;
        }
        arr[loc ]=arr[par];
        loc=par;
    } /*End of while*/
    arr[0]=num; /*assign null to the root node */
} /*End of insert( )*/
del(int num)
```

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```

    if( arr[right]<=arr[left] )
    {
        temp=arr[i];
        arr[i]=arr[left];
        arr[left]=temp;
        i=left;
    }
    else
    {
        temp=arr[i];
        arr[i]=arr[ right];
        arr[ right]=temp;
        i=right;
    }
    left=2*i+ 1;
    right=2*i+2;
}/*End ofwhile*/
if( left==n-l && arr[i]
```