Heap sort

```
#include <stdio.h>
main()
   int a[50],i,n,c,root,t,j;
   printf("Enter total number of elements:");
   scanf("%d", &n);
   printf("Enter the elements:\n");
   for(i = 0; i < n; i++)
        scanf("%d", &a[i]);
j=n;
 while(j>0)
 for(i=1;i<j;i++)
 {
                c=i;
do
{
root=(c-1)/2;
if(a[root] < a[c])
{
t=a[root];
a[root]= a[c];
a[c]=t;
}
c=root;
}while(c!=0);
 }
```

Output: