

```

#include <bits/stdc++.h>

using namespace std;
void swap(int *a,int *b){
    int tmp ;
    tmp =*a;
    *a=*b;
    *b=tmp;
}
void hepyfy(int array[], int n, int current){

    int largest = current;
    int leftchild = 2*current+1;
    int rightchild = 2*current+2;

    if (leftchild <n &&array[leftchild]>array [largest]){
        largest = leftchild;
    }

    if(rightchild <n && array[rightchild]>array [largest]){
        largest = rightchild;
    }

    if(largest !=current){
        swap(array[current],array[largest]);
        hepyfy(array,n,largest);
    }
}

void printArray(int array[], int n){
    for (int i=0; i<n; i++){
        cout<<array[i]<<" ";
    }
    cout<<endl<<endl;
}

int main() {

    int n;
    cin>>n;

    int arr[n];

```

```
for(int i=0;i<n; i++){
    cin>>arr[i];
}

cout<<"Before hepify : "<<endl;
printArray(arr,n);

int nonleafStart = (n/2)-1;

for (int i = nonleafStart; i>=0; i--){
    hepyfy(arr, n, i);
}

cout<<"Ahter hepify : "<<endl;
printArray(arr,n);

return 0;
}
```