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#include <iostream>
using namespace std;
void heapify(int arr[], int n, int i)
int largest = i;
int 1 = 2 * i + 1;
int r = 2 * i + 2;
if (l < n && arr[l] > arr[largest])
largest = 1;
if (r < n && arr[r] > arr[largest])
largest = r;
if (largest != i) {
swap(arr[i], arr[largest]);
heapify(arr, n, largest);
}
void heapSort(int arr[], int n)
for (int i = n / 2 - 1; i >= 0; i--)
heapify(arr, n, i);
for (int i = n - 1; i >= 0; i--) {
swap(arr[0], arr[i]);
heapify(arr, i, 0);
}
void printArray(int arr[], int n)
for (int i = 0; i < n; ++i)
cout << arr[i] << " ";
cout << "\n";
}
int main()
int arr[] = { 12, 11, 13, 5, 6, 7 };
int n = sizeof(arr) / sizeof(arr[0]);
heapSort(arr, n);
cout << "Sorted array is \n";</pre>
printArray(arr, n);
}
```

Sorted array is 5 6 7 11 12 13