```
#include <stdio.h>
void swap(int* a, int* b)
    int temp = *a;
    *a = *b;
    *b = temp;
}
void heapify(int arr[], int n, int i)
    int left, right, largest;
    largest = i;
    left = 2 * i + 1;
    right = 2 * i + 2;
    if (left < n && arr[left] > arr[largest])
        largest = left;
    if (right < n && arr[right] > arr[largest])
        largest = right;
    if (largest != i) {
        swap(&arr[i], &arr[largest]);
        heapify(arr, n, largest);
}
void heap sort(int arr[], int n)
    int i;
    for (i = (n / 2) - 1; i >= 0; i--)
        heapify(arr, n, i);
    for (i = n - 1; i >= 0; i--) {
        swap(&arr[0], &arr[i]);
        heapify(arr, i, 0);
    }
}
int main()
    int arr[] = { 20, 13, 34, 56, 12, 10 };
    int n = sizeof(arr) / sizeof(arr[0]);
    printf("Array:\n");
    for (int i = 0; i < n; i++)
        printf("%d ", arr[i]);
    heap_sort(arr, n);
    printf("\nAfter performing Heap Sort:\n");
    for (int i = 0; i < n; i++)
        printf("%d ", arr[i]);
    return 0;
}
```

```
Array:
20 13 34 56 12 10
After performing Heap Sort:
10 12 13 20 34 56

B...Program finished with exit code 0
Press ENTER to exit console.
```