

```
→ Online C Compiler - online editor x +
             onlinegdb.com/online_c_compiler
                                           H Save
             ▶ Run O Debug
                                                    { } Beautify
                                                                                                                        Language C
   main.c
         void neapport(int arr[], int n/ (
     31
             for (int i = n / 2 - 1; i >= 0; i--)
     32
               heap(arr, n, i);
             for (int i = n - 1; i >= 0; i--) {
     33 -
               swap(&arr[0], &arr[i]);
     34
               heap(arr, i, 0);
     36
     37
     38 void printArray(int arr[], int n) {
             for (int i = 0; i < n; ++i)
           printf("%d ", arr[i]);
             printf("\n");
     41
     42 }
     43 int main() {
             int n, i, j, temp,c;
     44
             int arr[10];
     45
             printf("Enter the number of elements to be sorted: \n");
     46
             scanf("%d",&n);
     47
             printf("Genrating random nos.:\n");
     48
             srand(time(0));
             for (c = 0; c < n; c++){
     50 -
             arr[c]=rand()%1000 +1;
     51
     52
             printf("%d\t\n",arr[c]);
     53
     54
             clock_t begin = clock();
             heapSort(arr, n);
     55
             printf("Sorted array is \n");
     56
             printArray(arr, n);
     57
             clock_t end = clock();
     58
             double time_spent = (double)(end - begin) / CLOCKS_PER_SEC;
             printf("\n\nEXECUTION TIME : %.10fseconds\n", time_spent);
     60
     61 }
                                                      Search the web and Windows
```



