

# Sort it

DLL written in native (cpp) code

## Why?

Significantly proven that if you want something to work fast, do it in C++/C1.  
This DLL provides a bunch of sort methods written in cpp.

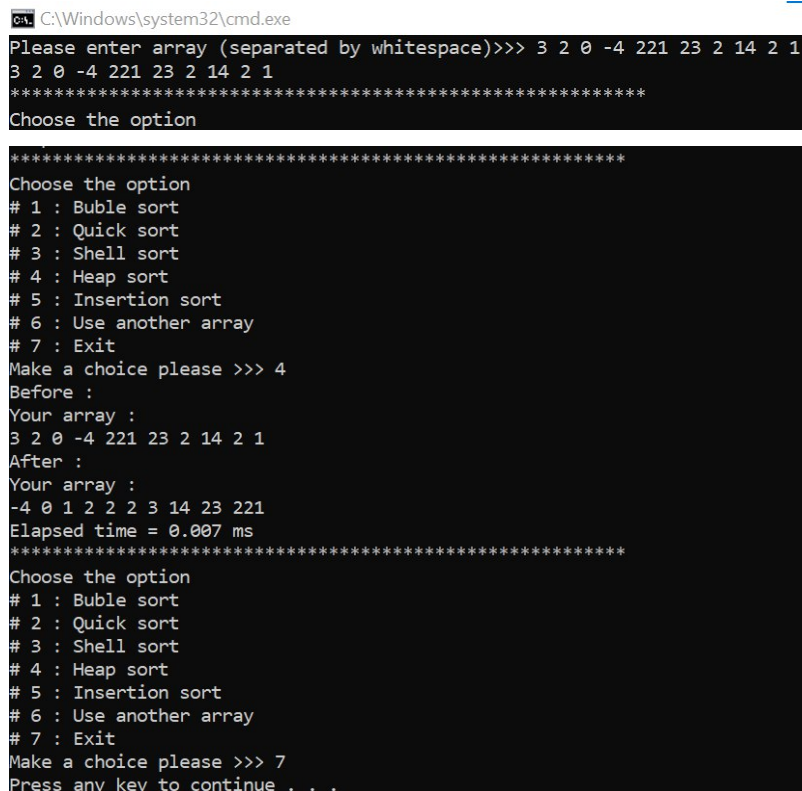
## How to use it?

Import DLL into your project and inject all dependencies.  
This is the list of all methods you can call:

```
extern "C" SHARED_LIB void bubbleSort(int arr[], int n);
extern "C" SHARED_LIB void quickSort(int arr[], int n, int high);
extern "C" SHARED_LIB void shellSort(int arr[], int n);
extern "C" SHARED_LIB void heapSort(int arr[], int n);
extern "C" SHARED_LIB void insertionSort(int arr[], int n);
```

As a sample I have implemented a simple console application on C# which provides you a functionality to sort your list/arrays by different methods, see elapsed time and based on it choose the most efficient method for sorting collection.

Please see below screenshots how it finally works:



```
C:\Windows\system32\cmd.exe
Please enter array (separated by whitespace)>>> 3 2 0 -4 221 23 2 14 2 1
3 2 0 -4 221 23 2 14 2 1
*****
Choose the option
*****
Choose the option
# 1 : Buble sort
# 2 : Quick sort
# 3 : Shell sort
# 4 : Heap sort
# 5 : Insertion sort
# 6 : Use another array
# 7 : Exit
Make a choice please >>> 4
Before :
Your array :
3 2 0 -4 221 23 2 14 2 1
After :
Your array :
-4 0 1 2 2 2 3 14 23 221
Elapsed time = 0.007 ms
*****
Choose the option
# 1 : Buble sort
# 2 : Quick sort
# 3 : Shell sort
# 4 : Heap sort
# 5 : Insertion sort
# 6 : Use another array
# 7 : Exit
Make a choice please >>> 7
Press any key to continue . . .
```