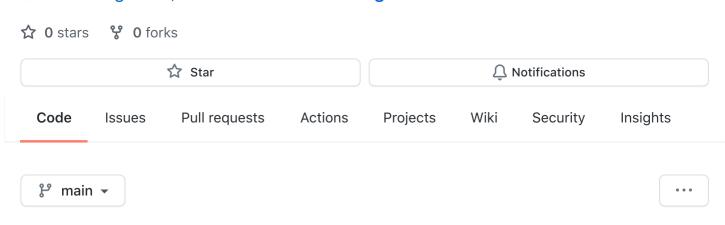
## minhdang2803 / Data-Structure-and-Algorithms-CO2003-



## Data-Structure-and-Algorithms-CO2003- / dsastudents / dsacpp / include / sorting / HeapSort.h



```
39 lines (35 sloc)
                     898 Bytes
  1
      /*
  2
       * To change this license header, choose License Headers in Project Properties.
  3
       * To change this template file, choose Tools | Templates
       st and open the template in the editor.
  4
  5
       */
  6
  7
      /*
  8
       * File:
                 HeapSort.h
  9
       * Author: LTSACH
 10
 11
       * Created on 14 September 2020, 18:10
 12
       */
 13
 14
      #ifndef HEAPSORT H
 15
      #define HEAPSORT_H
 16
      #include "sorting/ISort.h"
 17
      #include "heap/Heap.h"
 18
 19
      template <class T>
 20
      class HeapSort : private Heap<T>, public ISort<T>
 21
 22
      public:
 23
          HeapSort(int (*comparator)(T &, T &) = 0,
                    void (*deleteUserData)(Heap<T> *) = 0) : Heap<T>(comparator, deleteUserDat
 24
          {
 26
          }
 27
          void sort(T array[], int size, int (*comparator)(T &, T &) = 0)
```

```
Data-Structure- and-Algorithms-CO2003-/HeapSort. h\ at\ main\cdot minhdang 2803/Data-Structure- and-Algorithms-CO2003-\cdot\ GitHub
           {
28
29
                //YOUR CODE HERE
                Heap<T> minHeap(comparator);
30
                minHeap.heapify(array, size);
31
                for (int i = 0; i < size; i++)</pre>
32
33
34
                     array[i] = minHeap.pop();
                }
35
36
           }
37
      };
38
```

39

#endif /\* HEAPSORT\_H \*/