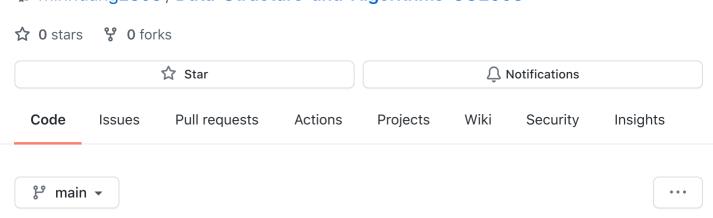
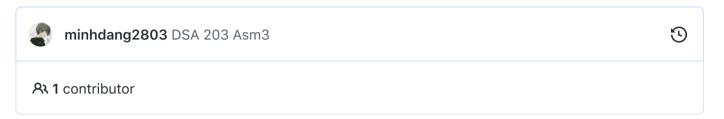
## minhdang2803 / Data-Structure-and-Algorithms-CO2003-



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



```
39 lines (34 sloc)
                     881 Bytes
  1
      /*
  2
       * To change this license header, choose License Headers in Project Properties.
  3
       * To change this template file, choose Tools | Templates
       * and open the template in the editor.
  4
  5
       */
  6
  7
      /*
  8
       * File:
                  StraightInsertionSort.h
  9
       * Author: LTSACH
 10
 11
       * Created on 23 August 2020, 16:24
 12
 13
 14
      #ifndef STRAIGHTINSERTIONSORT H
      #define STRAIGHTINSERTIONSORT_H
 15
 16
      #include "sorting/ISort.h"
 17
 18
      template<class T>
      class StraightInsertionSort: public ISort<T>{
 19
 20
 21
          void sort(T array[], int size, int (*comparator)(T&,T&)){
               int i, j;
 22
 23
               T key;
 24
               for (i = 1; i < size;i++)</pre>
               {
                   key = array[i];
 27
                   j = i - 1;
```

```
7/5/2021
```

```
28
                 while(j>=0 && (*comparator)(array[j],key) == 1)
29
                 {
                      array[j + 1] = array[j];
30
31
32
                 array[j + 1] = key;
33
34
             }
         }
35
36
     };
37
38
     #endif /* STRAIGHTINSERTIONSORT_H */
39
```