TVJ_Sort

It provides many kinds of sort functions for STL library containers and arrays.

Functions

The table below provides the table of parameters functions support.

Functions	Normal Array Pointers	STL Containers	STL Containers iterators	STL Containers and their iterators
bubble_sort	●	○	○	✕
insertion_sort	●	○	○	✕
quick_sort	●	○	✕	○
quick_sort_pro	●	○	○	✕
quick_sort_pro_safe	●	○	○	✕
heap_sort	●	●	●	✕
LSD_sort	✕	○	✕	✕
LSD_sort_pro	✕	○	✕	✕
LSD_sort_pro_heap1	✕	○	✕	✕
LSD_sort_pro_heap2	✕	○	✕	✕
MSD_sort	✕	○	✕	✕
MSD_sort_pro	✕	○	✕	✕
(STL sort)	●	✕	○	✕

> Note: ● means support, ✕ means no support, ○ means support some.

The following table gives the STL container that functions support.

Functions	vector	deque	list	forward_list	array
bubble_sort	●	●	✕	✕	●
insertion_sort	●	●	✕	✕	●
quick_sort	●	●	✕	✕	●
quick_sort_pro	●	●	✕	✕	●
quick_sort_pro_safe	●	●	✕	✕	●
heap_sort	●	●	●	●	●
LSD_sort	●	●	✕	✕	✕

Functions	vector	deque	list	forward_list	array
LSD_sort_pro	●	●	×	×	×
LSD_sort_pro_heap1	●	●	×	×	●
LSD_sort_pro_heap2	●	●	×	×	×
MSD_sort	●	●	×	×	×
MSD_sort_pro	●	●	×	×	×
(STL sort)	●	●	×	×	●

> Note: ● means support, × means no support.

Note

- LSD_sort, LSD_sort_pro, LSD_sort_pro_heap1, LSD_sort_pro_heap2, MSD_sort, MSD_sort_pro only supports integer elements (Including int, long long, unsigned char and etc.).
- Using STL container iterators, container element has to be specified in the function.
- Here are two sample .cpp files, which can be an easy introduction to TVJ_Sort.
- This project uses TVJ_Timer.h in my repository TVJ_Timer.