```
1 #pragma once
 2 #include <stdint.h>
 4 namespace SoilMath
 5
       class Sort
 6
       public:
 8
           Sort();
 9
           ~Sort();
10
11
           template <typename T>
12
           static void QuickSort(T *arr, int i)
13
14
15
               if (i < 2) return;</pre>
16
               T p = arr[i / 2];
17
               T *1 = arr;
18
19
               T *r = arr + i - 1;
               while (1 <= r) {
20
                   if (*1 < p) { 1++; }</pre>
21
                   else if (*r > p) { r--; }
22
23
                    else
24
25
                       int t = *1;
                       *1 = *r;
26
                       *r = t;
27
28
                       1++;
29
                       r--;
30
31
32
               Sort::QuickSort<T>(arr, r - arr + 1);
33
               Sort::QuickSort<T>(1, arr + i - 1);
           };
34
35
36
       };
37
38 }
```