```
templote < closs elemType>
   void quick Sort (elen Type list [], int length, int 8 noc, int 8 nom)
      noc = 0;
      nom = 0;
      rec Quick Sort (list, O, length-1, noc, nom);
    void recQuick Sort (elem Type list [], int first, int lost, int8 noc, int8 nom)
        int ploc;
        if (first elost)
           plac = portition (list, first, lost, noc, nom);
           recQuiele Sort Clist, first, place 1, noc, nom),
           recquick Sort (list, first, plact, noc, nom);
Hinclude "search Sort Algorithms. h"
 int main ()
     cout <2/n. Quick Sort " <2 endl;
      list cint > myList (132,11, 65,11, 50,37,24, 63,501);
      int noc=0;
      int nom= Oj
      quick Sort (my List, 9, noc, nom);
      cout ce "The number of comparisons? LL noc Lends cout ce "The number of dots movements; "Le nom Lends,"
                                                            2000006773
```

```
template ecloss elenType>
 int portition Celentype listCI, int first, int lost, int 8 noc, int8 nom
      elenType p;
      int ind;
      Swop (list, first, (fist+10st)/2);
      nom = nom + 3;
     P = list [first] =
     sind = first;
     for ( Find = first+1; ind <= lost; ind++)
         (4 > [Pri] + ; 1) };
               sind = sind +1;
swop (list, sind, ind);
             5 nom = nom + 3;
      Swop (list, first, sind);
       nom = nom+3;
       return sind;
templote ¿closs elenType] int first, int second)
void swop (elenType list [], int first, int second)
  elenType temp;
  temp = list [first];
   list [first] = list[second];
  list [second] = temp;
```

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