快排

- ① 2届定台署点: 8217. 87(Hr)/27 2[17].随机
- ①烟整层间: 一三对
- ③ 连门处理生品两些



```
1 #include <iostream>
 3 using namespace std;
 5 const int N = 1e6 + 10;
 8 int q[N];
10 void quick_sort(int q[], int l, int r)
11 - {
12
         if (1 >= r) return;
13
14
          int x = q[1], i = 1 - 1, j = r + 1;
         while (i < j) I
15
16
              do i ++ ; while (q[i] < x);
do j -- ; while (q[j] > x);
if (i < j) swap(q[i], q[j]);
17
18
19
20
21
         quick_sort(q, l, j);
quick_sort(q, j + 1, r);
22
23
24 }
25
26 int main()
27 - {
         scanf("%d", &n);
for (int i = 0; i < n; i ++ ) scanf("%d", &q[i]);</pre>
28
29
30
31
         quick_sort(q, 0, n - 1);
32
         for (int i = 0; i < n; i ++ ) printf("%d ", q[i]);
33
34
35
         return 0;
36 }
```

```
#include
using namespace std;
const int N = 100010;
int q[N];
void quick_sort(int q[], int I, int r)
{
   if (I >= r) return;
```

```
int i = 1 - 1, j = r + 1, x = q[1 + r >> 1];
  while (i < j)
      do i ++; while (q[i] < x);
      do j -- ; while (q[j] > x);
      if (i < j) swap(q[i], q[j]);</pre>
  }
  quick_sort(q, 1, j);
  quick_sort(q, j + 1, r);
}
int main()
{
  int n;
  scanf("%d", &n);
  for (int i = 0; i < n; i ++ ) scanf("%d", &q[i]);
  quick_sort(q, 0, n - 1);
  for (int i = 0; i < n; i ++ ) printf("%d ", q[i]);
  return 0;
}
作者: yxc
链接: <a href="https://www.acwing.com/activity/content/code/content/39784/">https://www.acwing.com/activity/content/code/content/39784/</a>
来源: AcWing
```

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