```
#include <stdio.h>
#include <stdlib.h>
#define N 15
int partion(int *data, int low, int high);
int quick_sort(int *data, int low, int high);
int compare(const void *p1, const void *p2);
int main(int argc, const char *argv[])
{
     int data[N] = \{0\};
     int i;
     srandom(10);
                                      性的 (for, srandom)
     for (i = 0; i < N; i++) {
           data[i] = random() \% 100;
     }
     for (i = 0; i < N; i++) {
          printf("%d ", data[i]);
     puts("");
     //quick_sort(data, 0, N-1); qsort(data, N, sizeof(int), compare), to 41 — data N sizeof compare
     for (i = 0; i < N; i++) {
    printf("%d ", data[i]);
                                  打印数组
     puts("");
     return 0;
}
int partion(int *data, int low, int high) {
     int temp = data[low];
     while (low < high) {
          while (low < high && temp <= data[high]) {</pre>
                high--;
           data[low] = data[high];
          while (low < high && temp >= data[low]){
                                    一> temp 站在边, 方边有小的, 家乡镇, 然后
                low++;
                                               站在边,左边有上的,就是换流后
           data[high] = data[low];
     }
                                           直至(low)=high Ltemp=datallow])
     data[low] = temp;
     return low;
}
int quick_sort(int *data, int low, int high) {
                                           Low Low Lemp ( RESPECT LOW LZ
     int t;
                                           temp的,但 low==high 给打断,任
                                           本来Low 区在Low, 不一定是区分数。
```

```
[high] >= 同了, [Low小的] <= 的。)
                               ( low ! ( ) 3 (3))
    if (data == NULL) {
        return -1;
    }
                           把地数下标
    if (low >= high)
        return 0;
                        一 下一半 排足
    t = partion(data, low, high);
    quick_sort(data, low, t-1);
quick_sort(data, t+1, high);
                            上一半排足。(岳極回)(七品高宝在中间不排)
    return 0;
}
}
```