



```
public static void quick(int[] arr, int s, int e) {
     if(s==e) {
                                        [50,40,80,90,70, 10,30,60,120]
0 1 2 3 7 5 6 7 8
        return;
     int pivot = arr[(s + e) / 2];
     int L = s;
     int R = e;
     while (L <= R) {
        while (pivot > arr[L]) {
          L++;
        while (pivot < arr[R]) {</pre>
                                          50,40,60,30,10, 70,90,80,120]
           R--;
        if (L <= R) {
           int temp = arr[L];
           arr[L] = arr[R];
           arr[R] = temp;
          L++;
           R--;
     quick(arr, s, R);
     quick(arr, L, e);
                                    8 50,40,60,50,00
  }
                                                                                         (70,000,80,110
                                     50,40,10,30,60
                             012
                        50,40,10
                           30,10,40,50
```



