```
// Objective: - Program for Quick Sort.
   #include <stdio.h>
4 void swap(int *a, int *b)
5
6
       int t = *a;
       *a = *b;
7
8
       *b = t;
9
   }
10 int partition(int arr[], int low, int high)
11 {
12
       int pivot = arr[high];
13
       int i = (low - 1);
14
       for (int j = low; j <= high - 1; j++)</pre>
15
        {
            if (arr[j] < pivot)</pre>
16
17
            {
18
                i++;
19
                swap(&arr[i], &arr[j]);
20
21
22
        swap(&arr[i + 1], &arr[high]);
23
       return (i + 1);
24 }
25 void quickSort(int arr[], int low, int high)
26 {
27
       if (low < high)</pre>
28
        {
            int pi = partition(arr, low, high);
29
            quickSort(arr, low, pi - 1);
30
31
            quickSort(arr, pi + 1, high);
32
        }
33 }
34 int main()
35 {
       int arr[] = {30, 52, 5, 13, 25, 44};
36
       int N = sizeof(arr[0]);
37
38
39
       quickSort(arr, 0, N - 1);
40
41
       printf("Sorted array: \n");
       for (int i = 0; i < N; i++)</pre>
42
43
            printf("%d ", arr[i]);
44
       return 0;
45 }
46
47
48 // Output :
49 // Sorted array:
50 // 5 13 25 30 44 52
```