Quick Sort

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| #include <bits/stdc++.h>  using namespace std;  void swap(int\* a, int\* b)  {  int t = \*a;  \*a = \*b;  \*b = t;  }  int partition(int arr[], int low, int high)  {  int pivot = arr[high];  int i= (low- 1);  for (int j = low; j <= high - 1; j++)  {    if (arr[j] < pivot)  {  i++;  swap(&arr[i], &arr[j]);  }  }  swap(&arr[i + 1], &arr[high]);  return (i + 1);  }  void quickSort(int arr[], int low, int high)  {  if (low < high)  {  int pi = partition(arr, low, high);  quickSort(arr, low, pi - 1);  quickSort(arr, pi + 1, high);  }  }  void printArray(int arr[], int size)  {  int i;  for (i = 0; i < size; i++)  cout << arr[i] << " ";  cout << endl;  }  int main()  {  int arr[] = { 10, 7, 8, 9, 1, 5 };  int n = sizeof(arr) / sizeof(arr[0]);  quickSort(arr, 0, n - 1);  cout << "Sorted array: \n";  printArray(arr, n);  return 0;  } |
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