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#include <iostream>

using namespace std;

void quickSort(int arr[], int left, int right) {

    int i = left, j = right;

    int tmp;

    int pivot = arr[(left + right) / 2];

    /* partition */

    while (i <= j) {

        while (arr[i] < pivot)

            i++;

        while (arr[j] > pivot)

            j--;

        if (i <= j) {

            tmp = arr[i];

            arr[i] = arr[j];

            arr[j] = tmp;

            i++;

            j--; }

        /* recursion */

        if (left < j)

            quickSort(arr, left, j);

        if (i < right)

            quickSort(arr, i, right);

    }

int main()

{

int arr[10]={3,1,5,7,8,2,1,4,5,7};

quickSort(arr,0,9);

for(int a=0;a<10;a++){

    cout<<arr[a]<<" ";

} return 0;}

```