

```
#include <stdio.h>

void swap(int *a, int *b) {
    int t = *a; *a = *b; *b = t;
}

int partition(int a[], int low, int high) {
    int pivot = a[high];
    int i = low - 1;
    for (int j = low; j < high; j++) {
        if (a[j] < pivot) {
            i++;
            swap(&a[i], &a[j]);
        }
    }
    swap(&a[i + 1], &a[high]);
    return i + 1;
}

void quickSort(int a[], int low, int high) {
    if (low < high) {
        int pi = partition(a, low, high);
        quickSort(a, low, pi - 1);
        quickSort(a, pi + 1, high);
    }
}

int main() {
```

```
int a[] = {5, 2, 9, 1, 6};  
int n = sizeof(a) / sizeof(a[0])  
  
quickSort(a, 0, n - 1);  
  
printf("Sorted Array: ");  
for (int i = 0; i < n; i++)  
    printf("%d ", a[i]);  
return 0;
```

Sorted Array: 1 2 5 6 9

=== Code Execution Successful ===