## Quick Sort Algorithm

```
#include <stdio.h>
int partition(int* arr, int left, int right)
     int pivot_index = left;
     int pivot = arr[pivot_index];
    int i = left + 1;
int j = right;
          while (arr[j] > pivot)
               int temp = arr[i];
arr[i] = arr[j];
arr[i] = temp;
    arr[left] = arr[j];
arr[j] = pivot;
void guick_sort(int* arr, int left, int right)
          int p = partition(arr, left, right);
quick_sort(arr, left, p - 1);
quick_sort(arr, p + 1, right);
int main()
     int arr[10] = { 10, 30, 22, 50, 20, 90, 83, 2, 6, 66 };
    quick_sort(arr, 0, 9);
printf("정렬 후: ");
for (int i = 0; i < 10; i++)
          printf("%d ", arr[i]);
    printf("\n");
    return O;
```

정렬 후: 2 6 10 20 22 30 50 66 83 90