

```

//Implement quicksort
#include <stdio.h>
#define MAX 100

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

int get_partion(int A[], int start , int end)
{
    int pivot = A[end];
    int i=start-1;
    for(int j=start ; j<end ; j++)
    {
        if(A[j] <= pivot)
        {
            i++;
            swap(A[i], A[j]);
        }
    }
    swap(A[end], A[i+1]);
    return i+1;
}

void quicksort(int A[], int start, int end)
{
    if(start < end)
    {
        int partion = get_partion(A, start, end);
        quicksort(A, start, partion-1);
        quicksort(A, partion+1, end);
    }
}

int main()
{
    int a[] = {2,23,4,15,62,13,7,8};
    printf("Original array\n");
    for(int i=0 ; i<8 ; i++)
        printf("%6d", a[i]);
    printf("\n");
    quicksort(a, 0, 7);
    printf("Sorted array\n");
    for(int i=0 ; i<8 ; i++)
        printf("%6d", a[i]);
    printf("\n");
}
/*
OUTPUT
Original array
    2    23    4    15    62    13    7    8
Sorted array
    2     4     7     8    13    15    23    62
*/

```