## 1. Binary Search Algorithm

```
#define _CRT_SECURE_NO_WARNINGS
#include <stdio.h>

3/*

int binarySearch(int A[], int low, int high, int target)
{
    while (low \iff high)
    {
        int mid = (low + high) / 2;
        if (A[mid] = target)
        {
            return mid;
        }
        if (A[mid] > target)
        {
              high = mid - 1;
        }
        else
        {
              low = mid + 1;
        }
        return -1;
}
```

## 2. Quick Sort Algorithm

```
gvoid guick_sort(int* arr, int left, int right)
{
    if (left < right)
    {
        int p = partition(arr, left, right);
        quick_sort(arr, left, p - 1);
        quick_sort(arr, p + 1, right);
    }
}
gint main()
{
    int arr[10] = { 10,30,22,50,20,90,83,2,6,66 };
    quick_sort(arr, 0, 9);
    for (int i = 0; i < 10; ++i)
    {
        printf("%d ", arr[i]);
    }
    return 0;
}</pre>
```