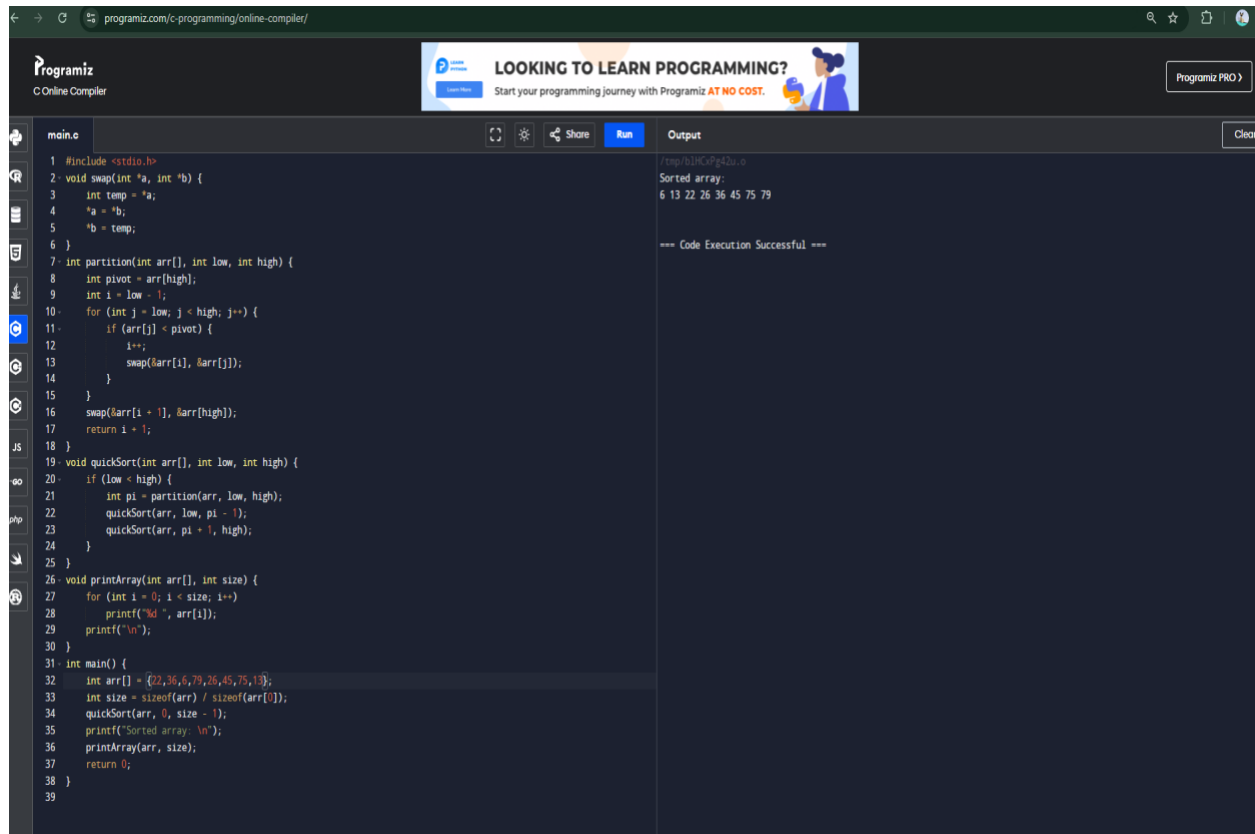


# 1.Quick Sorting code implementation



The screenshot shows the Programiz Online Compiler interface. The left sidebar contains a file explorer with 'main.c' selected. The main editor displays the following C++ code:

```
1 #include <stdio.h>
2 void swap(int *a, int *b) {
3     int temp = *a;
4     *a = *b;
5     *b = temp;
6 }
7 int partition(int arr[], int low, int high) {
8     int pivot = arr[high];
9     int i = low - 1;
10    for (int j = low; j < high; j++) {
11        if (arr[j] < pivot) {
12            i++;
13            swap(&arr[i], &arr[j]);
14        }
15    }
16    swap(&arr[i + 1], &arr[high]);
17    return i + 1;
18 }
19 void quickSort(int arr[], int low, int high) {
20    if (low < high) {
21        int pi = partition(arr, low, high);
22        quickSort(arr, low, pi - 1);
23        quickSort(arr, pi + 1, high);
24    }
25 }
26 void printArray(int arr[], int size) {
27     for (int i = 0; i < size; i++)
28         printf("%d ", arr[i]);
29     printf("\n");
30 }
31 int main() {
32     int arr[] = {22, 36, 6, 79, 26, 45, 75, 13};
33     int size = sizeof(arr) / sizeof(arr[0]);
34     quickSort(arr, 0, size - 1);
35     printf("Sorted array: \n");
36     printArray(arr, size);
37     return 0;
38 }
39
```

The right sidebar shows the output of the program:

```
/tmp/b1hC4gk12w.c
Sorted array:
6 13 22 26 36 45 75 79

=== Code Execution Successful ===
```

The top of the interface features the Programiz logo, a navigation bar with 'C Online Compiler', and a promotional banner that reads 'LOOKING TO LEARN PROGRAMMING? Start your programming journey with Programiz AT NO COST.' There is also a 'Programiz PRO' button in the top right corner.