**Prob4.Given an array of integers `arr`, the task is to sort the array in ascending order and return it,** without using any built-in **functions.**

**Solve:**

```c
#include <stdio.h>
void bubbleSort(int arr[], int n) {
    for (int i = 0; i < n - 1; i++) {
        int swapped = 0;
        for (int j = 0; j < n - i - 1; j++) {
            if (arr[j] > arr[j + 1]) {
                int temp = arr[j];
                arr[j] = arr[j + 1];
                arr[j + 1] = temp;

                swapped = 1;
            }
        }
        if (swapped == 0) {
            break;
        }
    }
}


int main() {
    int arr[] = {64, 34, 25, 12, 22, 11, 90};
    int n = sizeof(arr) / sizeof(arr[0]);

    printf("Original array: \n");
    for (int i = 0; i < n; i++) {
        printf("%d ", arr[i]);
    }
```

```c
    bubbleSort(arr, n);

    printf("\nSorted array in ascending order: \n");
    for (int i = 0; i < n; i++) {
        printf("%d ", arr[i]);
    }

    return 0;
}
```