// C program for implementation of Bubble sort

#include <stdio.h>

void swap(int \*xp, int \*yp)

{

    int temp = \*xp;

    \*xp = \*yp;

    \*yp = temp;

}

// A function to implement bubble sort

void bubbleSort(int arr[], int n)

{

   int i, j;

   for (i = 0; i < n-1; i++)

       // Last i elements are already in place

       for (j = 0; j < n-i-1; j++)

           if (arr[j] > arr[j+1])

              swap(&arr[j], &arr[j+1]);

}

/\* Function to print an array \*/

void printArray(int arr[], int size)

{

    int i;

    for (i=0; i < size; i++)

        printf("%d ", arr[i]);

    printf("\n");

}

// Driver program to test above functions

int main()

{

    int arr[] = {64, 34, 25, 12, 22, 11, 90};

    int n = sizeof(arr)/sizeof(arr[0]);

    bubbleSort(arr, n);

    printf("Sorted array: \n");

    printArray(arr, n);

    return 0;

}