// 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[] = { 5, 1, 4, 2, 8 ,4,7,11,90,12};

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

bubbleSort(arr, n);

printf("Sorted array: \n");

printArray(arr, n);

return 0;

}