```c
/*****     Program to Sort an Array using Bubble Sort     *****/

#include <stdio.h>

void bubble_sort();

int a[50], n;

main()
{
  int i;

  printf("\nEnter size of an array: ");
  scanf("%d", &n);

    printf("\nEnter elements of an array:\n");
  for(i=0; i<n; i++)
    scanf("%d", &a[i]);

    bubble_sort();

    printf("\n\nAfter sorting:\n");
      for(i=0; i<n; i++)
    printf("\n%d", a[i]);

  getch();
}

void bubble_sort()
{
  int j, k, temp;

    for(j=0; j<n; j++)
    for(k=0; k<(n-1)-j; k++)
     if(a[k] > a[k+1])
      {
       temp = a[k];
       a[k] = a[k+1];
       a[k+1] = temp;
      }
}
```