Bubble sort

```
#include <stdio.h>
#include <math.h>
int main()
  int a[] = {16, 19, 11, 15, 10, 12, 14};
  int i,j;
  //repeating loop 7 (number of elements in the array) times
  for(j = 0; j < 7; j + +)
  {
     //initially swapped is false
     int swapped = 0;
     i = 0;
     while(i<7-1)
     {
        //comparing the adjacent elements
        if (a[i] > a[i+1])
        {
          //swapping
          int temp = a[i];
          a[i] = a[i+1];
          a[i+1] = temp;
          //Changing the value of swapped
          swapped = 1;
       }
       j++;
     //if swapped is false then the array is sorted
     //we can stop the loop
     if (!swapped)
        break;
  }
  for(i=0;i<7;i++)
     printf("%d\n",a[i]);
  return 0;
}
```