06/05/17 03:34:31 /Users/darkcloud/Desktop/Lab9/[Lab9] Adnar Lozano_insert_sort_1.cpp

```
 1  /*input
 2  5
 3  2 4 6 8 3
 4  */
 5
 6  #include <stdio.h>
 7  #include <string.h>
 8  #include <math.h>
 9  #include <stdlib.h>
10  #include <assert.h>
11
12  void insertionSort(int ar_size, int * ar) {
13      for (int i = 0; i < ar_size; i++) {
14          int value = ar[i];
15          int temp = i - 1;
16          while (temp >= 0 && value < ar[temp]) {
17              ar[temp+1] = ar[temp];
18              temp = temp-1;
19              for (int k=0; k < ar_size; k++)
20                  printf("%d ", ar[k]);
21              printf("\n");
22          }
23          ar[temp+1] = value;
24      }
25      for(int j = 0; j < ar_size; j++)
26          printf("%d ", ar[j]);
27      printf("\n");
28  }
29  int main(void) {
30      int _ar_size;
31      scanf("%d", &_ar_size);
32      int _ar[_ar_size], _ar_i;
33      for(_ar_i = 0; _ar_i < _ar_size; _ar_i++)
34          scanf("%d", &_ar[_ar_i]);
35      insertionSort(_ar_size, _ar);
36      return 0;
37  }
```