2.1 Insertion Sort

Write a program `insertion_sort.cpp` OR `insertion_sort.py` that implements and demonstrates the insertion sort pseudocode on page 18. Include only one source code to be graded in your folder. WARNING: If both exist, I will grade the first source file I see.

    Specifications: Code and utilize the following functions:

Listing 1: print vector

```
/*
* print_vector(v) for insertion_sort.cpp ONLY
*   takes integer vector v as a const reference parameter
*   Prints the contents of vector v.
*   v is not modified
*/
```

Listing 2: insertion sort

```
/*
* insertion_sort(A)
*   takes integer vector (in .cpp) or list (in .py) A as a reference parameter
*   A is the vector/list to sort
*   A IS modified
*/
```

Listing 3: main

```
/*
* main()
*   Demonstrate insertion_sort(A)
*/
```

Listing 4: insertion sort example run

```
The vector to be sorted: {5,2,4,6,1,3,4,2,22,1}

The vector after insertion sort: {1,1,2,2,3,4,4,5,6,22}
```