```
1 def insertion_sort(num_list):
2
       """Sort a list of numbers using insertion sort"""
3
 4
       result = num_list.copy()
      n = 0
 5
 6
      for i in range(1, len(result)):
 7
         key = result[i]
 8
           j = i - 1
           while j >= 0 and key < result[j]:</pre>
9
             n += 1
10
11
               result[j + 1] = result[j]
12
               j -= 1
13
           else:
14
              result[j + 1] = key
15
16
      return n, result
17
18
19 # Take list input and turn each into an integer
20 num_list = list(
21 22 )
       map(int, input("Please input the numbers in the list separated by space: ").split())
23 assert len(num_list) > 0, "Empty list provided"
24 print(f"{num_list} is the original list")
25
26 n, sorted_list = insertion_sort(num_list)
27 print(f"{sorted_list} is the sorted_list and took {n} iterations to sort.")
```