CIS*2500 A4 – Input/Output Example for a4q2

The commands in recursion.input are:

```
count_up    10
count_down  10
p   3.58    34
p   2.14    47
p   3.27    34
a   2.23    55
a   2.39    32
p   3.29    47
p   2.24    42
p   2.6         51
a   3.12     2
a   4.4      4
a   3.01    24
a   2.1     36
print_all
print_sort
nth 3 INSERTED_ORDER
nth 7 SORTED_ORDER
nth 15 INSERTED_ORDER
remove_nth 3 INSERTED_ORDER
remove_nth 3 SORTED_ORDER
remove_nth 0 INSERTED_ORDER
remove_nth 0 SORTED_ORDER
remove_nth 15 INSERTED_ORDER
remove_nth 7 INSERTED_ORDER
remove_nth 6 SORTED_ORDER
a   5.5      5
print_all
print_sort
```

The output printed to stdout after running these commands is:

```
count_up from 0 to 10
     0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
count_down from 20 to 0 by 2
     20, 18, 16, 14, 12, 10, 8, 6, 4, 2, 0
p:          3.58  34
p:          2.14  47
p:          3.27  34
a:          2.23  55
a:          2.39  32
p:          3.29  47
p:          2.24  42
p:          2.6  51
a:          3.12  2
a:          4.4  4
a:          3.01  24
a:          2.1  36
```

```
print_all:  Insertion Order
     2.6  51
     2.24  42
     3.29  47
     3.27  34
     2.14  47
     3.58  34
     2.23  55
     2.39  32
     3.12  2
     4.4  4
     3.01  24
     2.1  36
print_sort: Key Sort Order
     2.1  36
     2.14  47
     2.23  55
     2.24  42
     2.39  32
     2.6  51
     3.01  24
     3.12  2
     3.27  34
     3.29  47
     3.58  34
     4.4  4
nth:         n = 3, Insertion Order
     3.27  34
nth:         n = 7, Key Sort Order
     3.12  2
nth:         n = 15, FAILED, n >= size where size = 12
remove_nth: n = 3, Insertion Order
     3.27  34
remove_nth: n = 3, Key Sort Order
     2.24  42
remove_nth: n = 0, Insertion Order
     2.6  51
remove_nth: n = 0, Key Sort Order
     2.1  36
remove_nth: n = 15, FAILED, n >= size where size = 8
remove_nth: n = 7, Insertion Order
     3.01  24
remove_nth: n = 6, Key Sort Order
     4.4  4
a:          5.5  5
print_all:  Insertion Order
     3.29  47
     2.14  47
     3.58  34
     2.23  55
     2.39  32
     3.12  2
     5.5  5
print_sort: Key Sort Order
     2.14  47
     2.23  55
     2.39  32
     3.12  2
     3.29  47
     3.58  34
     5.5  5
```