CIS*2500 A4 – Input/Output Example for a4q1b

The commands in sum_sq_diff.input are:

```
p|1   3.58    34
p|1   2.14    47
p|2   3.27    34
a|2   2.23    55
a|1   2.39    32
p|2   3.29    47
p|1   2.24    42
p|1   2.6     51
a|2   3.12     2
a|2   4.4      4
a|2   3.01    24
a|1   2.1     36
print_all|1
print_all|2
print_sort|1
print_sort|2
sum|2
square|1
diff|1:2 INSERTED_ORDER
diff|2:1 INSERTED_ORDER
diff|2:1 SORTED_ORDER
sum_sq_d|2:1 INSERTED_ORDER
sum_sq_d|2:1 SORTED_ORDER
```

The output printed to stdout after running these commands is:

```
p:          list = 1, 3.58  34
p:          list = 1, 2.14  47
p:          list = 2, 3.27  34
a:          list = 2, 2.23  55
a:          list = 1, 2.39  32
p:          list = 2, 3.29  47
p:          list = 1, 2.24  42
p:          list = 1, 2.6  51
a:          list = 2, 3.12  2
a:          list = 2, 4.4  4
a:          list = 2, 3.01  24
a:          list = 1, 2.1  36
print_all:  list = 1, Insertion Order
     2.6  51
     2.24  42
     2.14  47
     3.58  34
     2.39  32
     2.1  36
print_all:  list = 2, Insertion Order
     3.29  47
     3.27  34
     2.23  55
     3.12  2
     4.4  4
     3.01  24
```

```
print_sort: list = 1, Key Sort Order
     2.1  36
     2.14  47
     2.24  42
     2.39  32
     2.6  51
     3.58  34
print_sort: list = 2, Key Sort Order
     2.23  55
     3.01  24
     3.12  2
     3.27  34
     3.29  47
     4.4  4
sum:        list = 1, result = 242
square:     list = 2
     3.29  2209
     3.27  1156
     2.23  3025
     3.12  4
     4.4  16
     3.01  576
diff:       list1 = 1, list2 = 2, Insertion Order
     4
     8
     -8
     32
     28
     12
diff:       list1 = 2, list2 = 1, Insertion Order
     -4
     -8
     8
     -32
     -28
     -12
diff:       list1 = 2, list2 = 1, Key Sort Order
     19
     -23
     -40
     2
     -4
     -30
sum_sq_d:   list = 2, list2 = 1, Insertion Order, result = 2096
sum_sq_d:   list = 2, list2 = 1, Key Sort Order, result = 3410
```