

# CIS\*2500 A4 – Input/Output Example for a4q3

The commands in fractions.input are:

```
a 2/3
p 7/3
a 3/4
p 5
p 12/3
p 14/12
p 14/9
p 43643064465/39093069015
p 148135424/167647744
p 18/24
print_all SIMPLE
print_all MIXED
print_sort MIXED
sum SIMPLE
sum MIXED
fract MIXED
whole_num MIXED
rem_mixed MIXED
```

**next page for output**

## The output printed to stdout after running these commands is:

*Note: the number of decimal places printed here may differ from your results*

```
a:      0.666666667  2/3
p:      2.333333333  7/3
a:      0.75  3/4
p:      5.0  5
p:      4.0  12/3
p:      1.166666667  14/12
p:      1.555555556  14/9
p:      1.116388802  43643064465/39093069015
p:      0.883611198  148135424/167647744
p:      0.75  18/24
print_all: Simple Fractions, Insertion Order
0.75  3/4
0.883611198  2809/3179
1.116388802  3549/3179
1.555555556  14/9
1.166666667  7/6
4.0  4/1
5.0  5/1
2.333333333  7/3
0.666666667  2/3
0.75  3/4
print_all: Mixed Fraction, Insertion Order
0.75  3/4
0.883611198  2809/3179
1.116388802  1 370/3179
1.555555556  1 5/9
1.166666667  1 1/6
4.0  4
5.0  5
2.333333333  2 1/3
0.666666667  2/3
0.75  3/4
print_sort: Mixed Fraction, Key Sort Order
0.666666667  2/3
0.75  3/4
0.75  3/4
0.883611198  2809/3179
1.116388802  1 370/3179
1.166666667  1 1/6
1.555555556  1 5/9
2.333333333  2 1/3
4.0  4
5.0  5
sum:      result = 164/9
sum:      result = 18 2/9
fract:    Mixed Fractions, Insertion Order
0.75  3/4
0.883611198  2809/3179
1.116388802  1 370/3179
1.555555556  1 5/9
1.166666667  1 1/6
2.333333333  2 1/3
0.666666667  2/3
0.75  3/4
whole_num: Mixed Fractions, Insertion Order
4.0  4
5.0  5
rem_mixed: Mixed Fractions, Insertion Order
0.75  3/4
0.883611198  2809/3179
4.0  4
5.0  5
0.666666667  2/3
0.75  3/4
```