CIS*2500 A4 - The input command file

Input testing for A4 using the commands, while clearly described in the assignment, is unfortunately somewhat obscured as it is distributed across the multiple questions.

Simply, the program is run with an input command file name as an argument. The program then opens up the file, reads its content one line at a time and does what the command on each line says to do.

For example, in q1a. you would run

    Linux> q1a LewisCarroll.input

Here LewisCorrol.input is a text file that holds the commands. The file can be found on Courselink.

The commands in LewisCorrol.input are:

```
p  Without the least vestige of land:
p  He had bought a large map representing the sea,
p  The moment one looked in his face!
a  And the crew were much pleased when they found it to be
a  A map they could all understand.
p  Such solemnity, too! One could see he was wise,
print_all
print_sort
size
p  Such solemnity, too! One could see he was wise,
print_all
rem_first
print_all
p  Such a carriage, such ease and such grace!
p  The Bellman himself they all praised to the skies--
a
a  from
a  The Hunting of the Snark
a  Fit the Second: The Bellman's Speech
print_all
rem_small
rem_large
rem_small
print_all
```

The output printed to stdout after running these commands is:

```
p:          34  Without the least vestige of land:
p:          47  He had bought a large map representing the sea,
p:          34  The moment one looked in his face!
a:          55  And the crew were much pleased when they found it to be
a:          32  A map they could all understand.
p:          47  Such solemnity, too! One could see he was wise,
print_all:  Insertion Order
     47  Such solemnity, too! One could see he was wise,
     34  The moment one looked in his face!
     47  He had bought a large map representing the sea,
     34  Without the least vestige of land:
     55  And the crew were much pleased when they found it to be
     32  A map they could all understand.
print_sort: Key Sort Order
     32  A map they could all understand.
     34  The moment one looked in his face!
     34  Without the least vestige of land:
     47  Such solemnity, too! One could see he was wise,
     47  He had bought a large map representing the sea,
     55  And the crew were much pleased when they found it to be
size:       List size = 6
p:          47  Such solemnity, too! One could see he was wise,
print_all:  Insertion Order
     47  Such solemnity, too! One could see he was wise,
     47  Such solemnity, too! One could see he was wise,
     34  The moment one looked in his face!
     47  He had bought a large map representing the sea,
     34  Without the least vestige of land:
     55  And the crew were much pleased when they found it to be
     32  A map they could all understand.rem_first:  47  Such solemnity, too! One could see he was wise,
rem_first:  47  Such solemnity, too! One could see he was wise,
print_all:  Insertion Order
     47  Such solemnity, too! One could see he was wise,
     34  The moment one looked in his face!
     47  He had bought a large map representing the sea,
     34  Without the least vestige of land:
     55  And the crew were much pleased when they found it to be
     32  A map they could all understand.rem_first:  47  Such solemnity, too! One could see he was wise,
p:          42  Such a carriage, such ease and such grace!
p:          51  The Bellman himself they all praised to the skies--
a:          0
a:          4  from
a:          24  The Hunting of the Snark
a:          36  Fit the Second: The Bellman's Speech
```

```
print_all:  Insertion Order
        51  The Bellman himself they all praised to the skies--
        42  Such a carriage, such ease and such grace!
        47  Such solemnity, too! One could see he was wise,
        34  The moment one looked in his face!
        47  He had bought a large map representing the sea,
        34  Without the least vestige of land:
        55  And the crew were much pleased when they found it to be
        32  A map they could all understand.
        0
        4  from
        24  The Hunting of the Snark
        36  Fit the Second: The Bellman's Speech
rem_small:  0
rem_large:  55  And the crew were much pleased when they found it to be
rem_small:  4  from
print_all
        51  The Bellman himself they all praised to the skies--
        42  Such a carriage, such ease and such grace!
        47  Such solemnity, too! One could see he was wise,
        34  The moment one looked in his face!
        47  He had bought a large map representing the sea,
        34  Without the least vestige of land:
        32  A map they could all understand.
        24  The Hunting of the Snark
        36  Fit the Second: The Bellman's Speech
```

Here LewisCorrol.input is a text file that holds the commands. The file can be found on Courselink.

Note: **A few students were confused and thought that the input file commands were command line arguments to be used after the program name on the command line. The only command line argument is the name of the input command file. All commands are placed in the input command file as named in the command line (or if missing, from stdin).**