Question 1

assignment question number 1
filename: bst_avl_8_input.txt

```
4
2 5
- 3 - 8
- - - - - - 6 9
- - - - - - - - - - - - - 7 - -
```

filename: bst_avl_9_input.txt

```
6
3 9
2 4 8 10
1 - - 5 - - - -
```

assignment question number 2
filename: bst_avl_insert_8_input.txt

```
4
2
5
8
6
9
3
7
```

assignment question number 3
filename: bst_avl_insert_9_input.txt

```
4
2
3
8
6
9
1
10
5
```

assignment question number 4

The filenames are:

- bst_avl_00250000_input.txt
- bst_avl_00500000_input.txt
- bst_avl_01000000_input.txt
- bst_avl_05000000_input.txt
- bst_avl_10000000_input.txt

assignment question number 5

The filenames are:

- bst_avl_00250000_output_search_results_bst.txt
- bst_avl_00500000_output_search_results_bst.txt
- bst_avl_01000000_output_search_results_bst.txt
- bst_avl_05000000_output_search_results_bst.txt
- bst_avl_10000000_output_search_results_bst.txt

assignment question number 6

The filenames are:

 bst_avl_00250000_output_search_results_avl.txt
- bst_avl_00500000_output_search_results_avl.txt
- bst_avl_01000000_output_search_results_avl.txt
- bst_avl_05000000_output_search_results_avl.txt
- bst_avl_10000000_output_search_results_avl.txt

assignment question number 7
assignment question number 8
filename: binary_knapsack_comb_and dp_6_input.txt

```
6
max load
12
item number
1
2
3
4
5
6
weight
6
4
3
5
5
4
benefit
60
20
45
10
45
80
```