

Programming Patters: Assignment 1

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Section: 00001

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Output of UsingMySet.java

Displaying the initial contents of each set

1 2 3 4 5

1 3 5 7 9

1 2 6 14 300

Printing the results of the add method in set 1 by adding a non-distinct and distinct value.

Trying to add '1':

false

Trying to add '6':

true

1 2 3 4 5 6

Printing the results of the remove method in set 1 by removing one value in the set and one not in the set

Trying to remove '6':

true

Trying to remove '20':

false

1 2 3 4 5

Displaying the sets post-union

Set 1:

1 2 3 4 5 7 9

Set 2:

1 3 5 7 9

Displaying the sets pre-intersection

Set 1:

1 2 3 4 5 7 9

Set 3:

1 2 6 14 300

Displaying the sets post-intersection

Set 1:

1 2

Set 3:

1 2 6 14 300

Displaying the sets pre-difference

Set 2:

1 3 5 7 9

Set 3:

1 2 6 14 300

Displaying the sets post-difference

Set 2:

3 5 7 9

Set 3:

1 2 6 14 300

Showing the clear method

Set 3 before clear:

1 2 6 14 300

Set 3 after clear:

Showing the isEmpty method

Set 3 isEmpty when empty:

true

Set 3 isEmpty when populated:

false

Showing the contains method

Set 3:

1

Set 3 contains '1':

true

Set 3 contains '300':

false

Showing the indexOf method

Set 3:

1 2 3 4 5

Index of '3' in set 3:

2

Index of '72' in set 3:

-1

```
Showing the get method
Set 3:
1 2 3 4 5
Getting the value at index 1 in set 3:
2
Getting the value at index 3 in set 3:
4
```

```
Showing the set method
Set 3:
1 2 3 4 5
Setting the value at index 4 to 37:
1 2 3 4 37
```

```
Showing the size method
Set 3:
1 2 3 4 37
Size of set 3 is:
5
```

```
Showing the add method using the index
Set 3:
1 2 3 4 37
Adding 8 at index 4:
1 2 3 4 8 37
Adding 1 at index 1:
1 2 3 4 8 37
```

```
Showing the remove method using the index
Set 3:
1 2 3 4 8 37
Removing the value at index 2:
Value: 3
1 2 4 8 37
```

```
-----
BUILD SUCCESS
-----
```

```
Total time: 1.132 s
```

Output of MySetIT (JUnit Tests)

T E S T S

Running DataStructure.MySetIT

Tests run: 14, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.001 sec

Results :

Tests run: 14, Failures: 0, Errors: 0, Skipped: 0

BUILD SUCCESS

Total time: 1.252 s