**3020 Assignment 2**

**Part C Testing**

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| Test 1 | |
| Input | 20 random integers, get the min gap for that and then randomly remove some integers using the code provided for the coursework. |
| Expected Output | Give us the MinGap for after inserting and after deleting.  ( Example : “ 67 91” > 67 is the value and 91 is the priority) |
| Actual Output |  |

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| Test 2 | |
| Input | 15 random integers, get the min gap for that and then randomly remove some integers using the code provided for the coursework. |
| Expected Output | Give us the MinGap for after inserting and after deleting. Since the intergers are less compared to last time, there is a higher chance of getting the minimum gap as more than 1.  ( Example : “ 67 91” > 67 is the value and 91 is the priority) |
| Actual Output |  |

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| Test 3 | |
| Input | 10 random integers, get the min gap for that and then randomly remove some integers using the code provided for the coursework. |
| Expected Output | Give us the MinGap for after inserting and after deleting. Since the intergers are less compared to last time, there is a higher chance of getting the minimum gap as more than 1.  ( Example : “ 67 91” > 67 is the value and 91 is the priority) |
| Actual Output |  |

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| Test 4 | |
| Input | 5 random integers, get the min gap for that and then randomly remove some integers using the code provided for the coursework. |
| Expected Output | Give us the MinGap for after inserting and after deleting. Since the intergers are less compared to last time, there is a higher chance of getting the minimum gap as more than 1.  ( Example : “ 67 91” > 67 is the value and 91 is the priority) |
| Actual Output |  |

Since we are using the treap code from the course work, that is using a for loop and random integers to populate the treap, there are barely any extreme inputs that will lead to any errors. Therefore, we have not tested this code for any errors. As you can see that the code is working well, all the rotations are taking place after inserting/deleting the nodes.