**q=1**

P1 1

P2 0

P3 1

P4 3

P5 0

P6 3

TWT : 8 AWT : 1.33

**q=2**

P1 1

P2 0

P3 1

P4 3

P5 0

P6 3

TWT : 8 AWT : 1.33

**q=3**

P1 0

P2 11

P3 0

P4 0

P5 1

P6 2

TWT : 14 AWT : 2.33

**q=4**

P1 0

P2 13

P3 0

P4 0

P5 1

P6 2

TWT : 16 AWT : 2.67

**q=5**

P1 0

P2 13

P3 0

P4 0

P5 1

P6 2

TWT : 16 AWT : 2.67

**q=6**

P1 0

P2 13

P3 0

P4 0

P5 1

P6 2

TWT : 16 AWT : 2.67

**q=7**

P1 0

P2 13

P3 0

P4 0

P5 1

P6 2

TWT : 16 AWT : 2.67

**q=8**

P1 0

P2 13

P3 0

P4 0

P5 1

P6 2

TWT : 16 AWT : 2.67

**q=9**

P1 0

P2 13

P3 0

P4 0

P5 1

P6 2

TWT : 16 AWT : 2.67

**q=10**

P1 0

P2 13

P3 0

P4 0

P5 1

P6 2

TWT : 16 AWT : 2.67

|  |  |  |
| --- | --- | --- |
| **q** | **Small Dataset** | **Big Dataset** |
| **1** | 1.33 | 47.05 |
| **2** | 1.33 | 47.30 |
| **3** | 2.33 | 56.30 |
| **4** | 2.67 | 57.05 |
| **5** | 2.67 | 58.00 |
| **6** | 2.67 | 58.55 |
| **7** | 2.67 | 59.30 |
| **8** | 2.67 | 59.95 |
| **9** | 2.67 | 60.70 |
| **10** | 2.67 | 68.70 |

First of all, my code does not provide correct results.

I modified the binQ.c to use it as my binomial heap source code.

Program reads the txt file and add all of the nodes to the linked list. Then it starts to processing the inputs. For every “time” variable value, program checks if there exists a node to add to the binomial heap. If it is, it adds the node to the binomial heap using modified Insert(…) function in the binQ.c file. If any process finished in the processor, program deletes it from the binomial heap immediately. After finishing all of the process, program prints out the total waiting time and average waiting time values to the console display. This algorithm runs till the quantum variable reaches the value 11.

In conclusion, according to my program that I think not working properly, as the quantum value increases, average waiting time “AWT” of nodes also increases.

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