**README**

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| Question No. | Files Required | Driver File | Notes |
| Question 2 | HuffmanCode.java | HuffmanCode.java | Sample Input is given in main method |
| Question 3 | PerfectNumber.java | PerfectNumber.java | Only first part is implemented i.e. to print the perfect powers |
| Question 4, 6 | PrimMST.java, Graph.java, Index.java, IndexedHeap.java, BinaryHeap.java | PrimMST.java | prim1 and prim2 both are implemented in this file |
| Question 5 | BinaryHeap.java | BinaryHeapDriver.java | Here n is always equal to bounded array length. Implementation cannot have n <  array. Length |
| Question 7 | KruskalMST.java, DisjointSet.java, Graph.java | KruskalMST.java |  |

**Notes:**

BinaryHeapDriver.java imports Shuffle.java from cs6301.g00, so is not included.

PrimMST.java imports Timer.java from cs6301.g00, so not included.

KruskalMST.java imports Timer.java from cs6301.g00.

Graph.java imports ArrayIterator.java from cs6301.g00.

For Question 4, 6, 7 we have tried input

9

14

1 2 4

1 8 8

2 3 8

2 8 11

3 4 7

3 9 2

3 6 4

4 5 9

4 6 14

5 6 10

6 7 2

7 8 1

7 9 6

8 9 7