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| --- | --- | --- | --- |
| PURPOSE | INPUT | EXPECTED OUTPUT | ACTUAL OUTPUT |
| Incomplete Set of Pipes | 4 3  1 2 2  1 3 5  2 3 4  0 0 | -1 | -1 |
| All Set of Pipes have same small range | 4 5  1 2 5  1 3 5  1 4 5  2 4 5  3 4 5  0 0 | 0 | 0 |
| Same number of Vertices and Edges | 4 4  1 2 5  1 3 4  2 4 2  3 4 3  0 0 | 2 | 2 |
| Different number of vertices and edges | 4 5  1 2 5  1 3 2  1 4 7  2 4 5  3 4 3  0 0 | 2 | 2 |
| Two minimum spanning tree with the same range capacity | 4 6  1 2 7  1 3 4  1 4 5  2 3 4  2 4 6  3 4 6  0 0 | 1 | 1 |
| Multiple Networks | 4 4  1 2 5  1 3 4  2 4 2  3 4 3  4 5  1 2 5  1 3 2  1 4 7  2 4 5  3 4 3  0 0 | 2  2 | 2  2 |

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