Report for traveling salesperson problem:

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| --- | --- | --- | --- | --- | --- | --- |
| Name of the  Graph | # of cities | Optimal  Solution | Exact algorithm | | BnB algorithm | |
| Distance | Distance | Time (s) | Distance | Time (s) |
| data10 | 10 | 212 | 212 | 0.0654752 | 212 | 0.0013567 |
| data11 | 11 | 202 | 202 | 0.503286 | 202 | 0.0101159 |
| data12 | 12 | 264 | 264 | 5.67629 | 264 | 0.0006871 |
| data13 | 13 | 269 | 269 | 70.0527 | 269 | 0.0018003 |
| data14 | 14 | 125 | -- | -- | 125 | 0.0251337 |
| data15 | 15 | 291 | -- | -- | 291 | 0.0309801 |
| data16 | 16 | 156 | -- | -- | 156 | 0.199231 |
| Data17 | 17 | -- | -- | -- | -- | -- |
| Data18 | 18 | 187 | -- | -- | 187 | 2.6003 |
| rby1599 | 1599 | 5533 | -- | -- | -- | -- |
| xqf131 | 131 | 564 | -- | -- | -- | -- |
| Xqg237 | 237 | 1019 | -- | -- | -- | -- |
| Wi29 | 29 | 27603 | -- | -- | -- | -- |
| Dj38 | 38 | 6656 | -- | -- | -- | -- |
| Rw1621 | 1621 | 26051 | -- | -- | -- | -- |
| Qa194 | 194 | 9352 | -- | -- | -- | -- |
| nu3496 | 3496 | 96132 | -- | -- | -- | -- |
| lu980 | 980 | 11340 | -- | -- | -- | -- |
|  |  |  |  |  |  |  |

Submitted by : Mahdi Hasnat Siyam 1705003