**Data Table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Problem**  **Data** | **Solver** | **VAH** | **#Node** | **#BT** | **Time(ms)** |
| d-10-01 | BT | VAH1 | 142088 | 142030 | 107 |
| BT | VAH2 | 279592 | 279534 | 121 |
| BT | VAH3 | 357053 | 356995 | 135 |
| BT | VAH4 | 75192 | 75134 | 67 |
| BT | VAH5 | 75192 | 75134 | 46 |
| FC | VAH1 | 810 | 752 | 27 |
| FC | VAH2 | 98867827 | 98867769 | 98602 |
| FC | VAH3 | 58 | 0 | 10 |
| FC | VAH4 | 75192 | 75134 | 254 |
| FC | VAH5 | 75192 | 75134 | 312 |
| d-10-06 | BT | VAH1 | 14774 | 14716 | 26 |
| BT | VAH2 | 132886 | 132828 | 71 |
| BT | VAH3 | 23710 | 23652 | 10 |
| BT | VAH4 | 142445 | 142387 | 100 |
| BT | VAH5 | 142445 | 142387 | 68 |
| FC | VAH1 | 58 | 0 | 10 |
| FC | VAH2 | 30527489 | 30527431 | 28962 |
| **FC** | **VAH3** | **58** | **0** | **12** |
| FC | VAH4 | 142445 | 142387 | 565 |
| FC | VAH5 | 142445 | 142387 | 477 |
| d-10-07 | **BT** | **VAH1** | **10975** | **10917** | **30** |
| BT | VAH2 | 102656 | 102598 | 85 |
| BT | VAH3 | 50420 | 50362 | 61 |
| BT | VAH4 | 10975 | 10917 | 27 |
| BT | VAH5 | 10975 | 10917 | 22 |
| **FC** | **VAH1** | **135** | **77** | **14** |
| FC | VAH2 | 6901819 | 6901761 | 9048 |
| FC | VAH3 | 253 | 195 | 18 |
| FC | VAH4 | 10975 | 10917 | 65 |
| FC | VAH5 | **10975** | **10917** | **144** |
| d-10-08 | **BT** | **VAH1** | **62009** | **61951** | **56** |
| BT | VAH2 | 250884 | 250826 | 205 |
| BT | VAH3 | 22992349 | 22992291 | 6143 |
| BT | VAH4 | 15718 | 15660 | 27 |
| BT | VAH5 | 15718 | 15660 | 34 |
| **FC** | **VAH1** | **80** | **22** | **12** |
| FC | VAH2 | 14094735 | 14094677 | 12580 |
| FC | VAH3 | 311 | 253 | 35 |
| FC | VAH4 | 17365 | 17307 | 84 |
| FC | VAH5 | 17365 | 17307 | 85 |
| d-10-09 | BT | VAH1 |  |  |  |
| BT | VAH2 |  |  |  |
| BT | VAH3 |  |  |  |
| **BT** | **VAH4** |  |  |  |
| BT | VAH5 |  |  |  |
| FC | VAH1 | 58 | 0 | 11 |
| FC | VAH2 |  |  |  |
| FC | VAH3 | 70 | 12 | 21 |
| **FC** | **VAH4** | **15718** | **15660** | **77** |
| FC | VAH5 | 15718 | 15660 | 149 |
| d-15-01 | **BT** | **VAH1** | **\*** | **\*** | **\*** |
| BT | VAH2 | \* | \* | \* |
| BT | VAH3 | \* | \* | \* |
| BT | VAH4 | \* | \* | \* |
| BT | VAH5 | \* | \* | \* |
| **FC** | **VAH1** | **40026** | **39919** | **296** |
| FC | VAH2 | \* | \* | \* |
| FC | VAH3 | 253650 | 253543 | 1343 |
| FC | VAH4 | \* | \* | \* |
| FC | VAH5 | \* | \* | \* |