

| Method name | | Ranks after 2 iterations | | | | | Ranks after 4 iterations | | | | |
|----------------------------------|-----------------------------------|--------------------------|--------|--------|--------|--------|--------------------------|--------|--------|--------|--------|
| setZip(String) | | X | 6 | X | X | X | X | X | X | X | X |
| getProductId() | | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 1 | 4 | 2 |
| getCategoryId() | | X | 4 | X | X | X | X | X | X | X | X |
| getName() | | 4 | 7 | 2 | 3 | 1 | 1 | 1 | 6 | 1 | 1 |
| getItemListByProduct(String) | | X | 8 | X | X | X | X | X | X | X | X |
| getProductListByCategory(String) | | 3 | 3 | 3 | 5 | 3 | 4 | 2 | 128 | 2 | 3 |
| getUsername() | | X | 5 | X | X | X | X | X | X | X | X |
| setPassword(String) | | X | 108 | 4 | 2 | X | X | X | 2 | 3 | X |
| getAccount() | | 1 | 1 | X | X | X | 3 | X | X | X | X |
| # of iter | Statistics | 2 iterations | | | | | 4 iterations | | | | |
| iter #1 | $M_{runningTime_goodTraces_1}$ | 1016.1 | 1131.6 | 1048.4 | 962.4 | 980.7 | 1016.1 | 1131.6 | 1048.4 | 962.4 | 980.7 |
| | $M_{runningTime_badTraces_1}$ | 774.7 | 836.5 | 691.5 | 838.4 | 743.3 | 774.7 | 836.5 | 691.5 | 838.4 | 743.3 |
| | $SD_{runningTime_goodTraces_1}$ | 101.0 | 89.4 | 115.7 | 57.1 | 106.2 | 101.0 | 89.4 | 115.7 | 57.1 | 106.2 |
| | $SD_{runningTime_badTraces_1}$ | 130.7 | 103.4 | 131.3 | 62.4 | 58.4 | 130.7 | 103.4 | 103.3 | 62.4 | 58.4 |
| | $Ratio_{goodTraces/badTraces_1}$ | 6/4 | 4/6 | 6/4 | 5/5 | 5/5 | 6/4 | 4/6 | 6/4 | 5/5 | 5/5 |
| iter #2 | $M_{runningTime_goodTraces_2}$ | 3287.6 | 1097.4 | 3292.7 | 3287.7 | 3293.2 | 3287.6 | 1097.4 | 3292.7 | 3287.7 | 3293.2 |
| | $M_{runningTime_badTraces_2}$ | 919.6 | 837.9 | 915.8 | 884.8 | 853.0 | 919.6 | 837.9 | 915.8 | 884.8 | 853.0 |
| | $SD_{runningTime_goodTraces_2}$ | 4.2 | 98.0 | 3.9 | 3.1 | 1.0 | 4.2 | 98.0 | 3.9 | 3.1 | 1.0 |
| | $SD_{runningTime_badTraces_2}$ | 164.0 | 96.8 | 208.8 | 87.0 | 144.4 | 164.0 | 96.8 | 208.8 | 87.0 | 144.4 |
| | $Ratio_{goodTraces/badTraces_2}$ | 10/10 | 9/11 | 9/11 | 8/12 | 9/11 | 10/10 | 9/11 | 9/11 | 8/12 | 9/11 |
| iter #3 | $M_{runningTime_goodTraces_3}$ | X | X | X | X | X | 3286.4 | 3287.9 | 3292.5 | 3290.1 | 3293.7 |
| | $M_{runningTime_badTraces_3}$ | X | X | X | X | X | 919.6 | 942.7 | 915.8 | 884.8 | 853.0 |
| | $SD_{runningTime_goodTraces_3}$ | X | X | X | X | X | 3.4 | 4.5 | 3.6 | 3.9 | 2.6 |
| | $SD_{runningTime_badTraces_3}$ | X | X | X | X | X | 164.0 | 168.0 | 208.8 | 87.0 | 144.4 |
| | $Ratio_{goodTraces/badTraces_3}$ | X | X | X | X | X | 20/10 | 9/21 | 19/11 | 18/12 | 19/11 |
| iter #4 | $M_{runningTime_goodTraces_4}$ | X | X | X | X | X | 3289.2 | 3288.8 | 3291.5 | 3290.7 | 3293.5 |
| | $M_{runningTime_badTraces_4}$ | X | X | X | X | X | 919.6 | 942.7 | 915.8 | 884.8 | 853.0 |
| | $SD_{runningTime_goodTraces_4}$ | X | X | X | X | X | 6.3 | 3.4 | 3.3 | 4.0 | 2.7 |
| | $SD_{runningTime_badTraces_4}$ | X | X | X | X | X | 164.0 | 168.0 | 208.8 | 87.0 | 144.4 |
| | $Ratio_{goodTraces/badTraces_4}$ | X | X | X | X | X | 30/10 | 19/21 | 29/11 | 28/12 | 29/11 |

TABLE 1

Ranks of bottlenecks for FOREPOST in JPetStore, where the group of bottlenecks is bottlenecks#1 and number of profiles is equal to 10. Times are measured by seconds.