HD 20 20

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sample | MVCA | EXACT | T\_MVCA | T\_EXACT | BETTER |
| 0 | 4 | 4 | 1.00 | 4.00 |  |
| 1 | 4 | 3 | 1.00 | 2.00 | \* |
| 2 | 4 | 3 | 1.00 | 1.00 | \* |
| 3 | 3 | 3 | 1.00 | 1.00 |  |
| 4 | 4 | 3 | 1.00 | 1.00 | \* |
| 5 | 3 | 3 | 1.00 | 1.00 |  |
| 6 | 4 | 4 | 1.00 | 4.00 |  |
| 7 | 4 | 3 | 1.00 | 1.00 | \* |
| 8 | 4 | 3 | 1.00 | 1.00 | \* |
| 9 | 4 | 4 | 1.00 | 4.00 |  |
| Average | 3.8 | 3.3 | 1.0 | 1.1 | 5 |

HD 30 30

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sample | MVCA | EXACT | T\_MVCA | T\_EXACT | BETTER |
| 0 | 4 | 4 | 2.00 | 52.00 |  |
| 1 | 4 | 4 | 1.00 | 33.00 |  |
| 2 | 4 | 4 | 2.00 | 27.00 |  |
| 3 | 4 | 4 | 1.00 | 24.00 |  |
| 4 | 4 | 4 | 2.00 | 24.00 |  |
| 5 | 4 | 4 | 1.00 | 25.00 |  |
| 6 | 4 | 3 | 1.00 | 2.00 | \* |
| 7 | 4 | 4 | 1.00 | 24.00 |  |
| 8 | 3 | 3 | 0.00 | 2.00 |  |
| 9 | 4 | 4 | 1.00 | 25.00 |  |
| Average | 3.9 | 3.8 | 1.2 | 23.8 | 1 |

HD 40 40

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sample | MVCA | EXACT | T\_MVCA | T\_EXACT | BETTER |
| 0 | 4 | 4 | 2.00 | 97.00 |  |
| 1 | 4 | 4 | 1.00 | 99.00 |  |
| 2 | 4 | 4 | 2.00 | 101.00 |  |
| 3 | 4 | 4 | 1.00 | 98.00 |  |
| 4 | 5 | 4 | 2.00 | 94.00 | \* |
| 5 | 4 | 4 | 2.00 | 98.00 |  |
| 6 | 4 | 4 | 2.00 | 98.00 |  |
| 7 | 4 | 4 | 2.00 | 91.00 |  |
| 8 | 4 | 4 | 1.00 | 96.00 |  |
| 9 | 5 | 4 | 2.00 | 96.00 | \* |
| Average | 4.2 | 4.0 | 1.7 | 96.8 | 2 |

HD 50 50

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sample | MVCA | EXACT | T\_MVCA | T\_EXACT | BETTER |
| 0 | 4 | 4 | 5.00 | 305.00 |  |
| 1 | 4 | 4 | 3.00 | 297.00 |  |
| 2 | 4 | 4 | 2.00 | 288.00 |  |
| 3 | 5 | 4 | 2.00 | 287.00 | \* |
| 4 | 4 | 4 | 3.00 | 278.00 |  |
| 5 | 4 | 4 | 3.00 | 279.00 |  |
| 6 | 5 | 4 | 3.00 | 693.00 | \* |
| 7 | 5 | 4 | 3.00 | 287.00 | \* |
| 8 | 4 | 4 | 3.00 | 285.00 |  |
| 9 | 4 | 4 | 2.00 | 286.00 |  |
| Average | 4.3 | 4.0 | 2.9 | 328.5 | 3 |

MD 20 20

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sample | MVCA | EXACT | T\_MVCA | T\_EXACT | BETTER |
| 0 | 6 | 5 | 2.00 | 50.00 | \* |
| 1 | 4 | 4 | 0.00 | 3.00 |  |
| 2 | 6 | 6 | 1.00 | 51.00 |  |
| 3 | 6 | 5 | 0.00 | 14.00 | \* |
| 4 | 6 | 5 | 1.00 | 23.00 | \* |
| 5 | 5 | 5 | 1.00 | 13.00 |  |
| 6 | 7 | 5 | 1.00 | 42.00 | \* |
| 7 | 6 | 5 | 1.00 | 32.00 | \* |
| 8 | 5 | 5 | 1.00 | 13.00 |  |
| 9 | 5 | 5 | 1.00 | 11.00 |  |
| Av. | 5.6 | 5.0 | 0.90 | 25.2 | 5 |

MD 30 30

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sample | MVCA | EXACT | T\_MVCA | T\_EXACT | BETTER |
| 0 | 6 | 6 | 3.00 | 1069.00 | 0 |
| 1 | 6 | 6 | 1.00 | 1076.00 | 0 |
| 2 | 6 | 5 | 1.00 | 142.00 | \* |
| 3 | 5 | 5 | 1.00 | 119.00 | 0 |
| 4 | 6 | 6 | 1.00 | 1024.00 | 0 |
| 5 | 6 | 5 | 1.00 | 132.00 | \* |
| 6 | 5 | 5 | 0.00 | 130.00 | 0 |
| 7 | 7 | 6 | 1.00 | 1030.00 | \* |
| 8 | 6 | 6 | 1.00 | 947.00 | 0 |
| 9 | 6 | 5 | 1.00 | 130.00 | \* |
| Av. | 5.9 | 5.5 | 1.1 | 579.9 | 4 |

MD 50 50

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sample | MVCA | EXACT | T\_MVCA | T\_EXACT | BETTER |
| 0 | 7 | 6 | 6.00 | 47411.00 | \* |
| 1 | 6 | 6 | 2.00 | 46267.00 |  |
| 2 | 8 | 7 | 3.00 | 632236.00 | \* |
| 3 | 7 | 6 | 2.00 | 204825.00 | \* |
| 4 | 6 | 6 | 2.00 | 47169.00 |  |
| 5 | 6 | 6 | 2.00 | 47395.00 |  |
| 6 | 7 | 7 | 2.00 | 672873.00 |  |
| 7 | 7 | 7 | 2.00 | 652721.00 |  |
| 8 | 7 | 6 | 2.00 | 48914.00 | \* |
| 9 | 8 | 7 | 2.00 | 667566.00 | \* |
| Av. | 6.9 | 6.4 | 2.5 | 306737.7 | 5 |

MD 40 40

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sample | MVCA | EXACT | T\_MVCA | T\_EXACT | BETTER |
| 0 | 6 | 6 | 4.00 | 9034.00 | 0 |
| 1 | 6 | 6 | 1.00 | 9039.00 | 0 |
| 2 | 7 | 6 | 2.00 | 9612.00 | \* |
| 3 | 6 | 6 | 2.00 | 8819.00 | 0 |
| 4 | 7 | 6 | 1.00 | 38062.00 | \* |
| 5 | 6 | 6 | 1.00 | 8856.00 | 0 |
| 6 | 5 | 5 | 1.00 | 717.00 | 0 |
| 7 | 5 | 5 | 1.00 | 701.00 | 0 |
| 8 | 5 | 5 | 1.00 | 724.00 | 0 |
| 9 | 8 | 7 | 2.00 | 124959.00 | \* |
| Av. | 6.1 | 5.8 | 1.6 | 21052.3 | 5 |

LD 20 20

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sample | B | MVCA | EXACT | T\_MVCA | T\_EXACT | BETTER |
| 0 | 1 | 9 | 8 | 2.00 | 100.00 | \* |
| 1 | 3 | 10 | 9 | 1.00 | 492.00 | \* |
| 2 | 1 | 15 | 15 | 2.00 | 59567.00 |  |
| 3 | 4 | 12 | 12 | 1.00 | 2538.00 |  |
| 4 | 2 | 8 | 8 | 1.00 | 136.00 |  |
| 5 | 1 | 11 | 11 | 1.00 | 3724.00 |  |
| 6 | 2 | 12 | 12 | 1.00 | 7645.00 |  |
| 7 | 3 | 11 | 11 | 0.00 | 2520.00 |  |
| 8 | 3 | 12 | 12 | 0.00 | 8263.00 |  |
| 9 | 2 | 13 | 13 | 1.00 | 15278.00 |  |
| Av. | 2.2 | 11.3 | 11.1 | 1.0 | 10026.3 | 2 |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SPERIMENTALS EXECUTING VALUES: \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

MVCAAverage Value: 11.3 Average Time (msec): 1.0

EXACT Average Value: 11.1 Average Time (msec): 10026.3