

**GIT Department of Computer Engineering
CSE 222/505 - Spring 2022
Homework 6 Comparison Report**

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RESULT OF COMPARISON

GET METHOD

```
Get Method Average Performance for Binary Search Tree Hash Table size 100  
1663.0
```

```
Get Method Average Performance for Binary Search Tree Hash Table size 1000  
3598.0
```

```
Get Method Average Performance for Binary Search Tree Hash Table size 10000  
7994.0
```

```
Get Method Average Performance for Hybrid Hash Table size 100  
2448.0
```

```
Get Method Average Performance for Hybrid Hash Table size 1000  
7828.0
```

```
Get Method Average Performance for Hybrid Hash Table size 10000  
138100
```

PUT METHOD

```
Put Method Average Performance for Binary Search Tree Hash Table size 100  
594.0
```

```
Put Method Average Performance for Binary Search Tree Hash Table size 1000  
1200.0
```

```
Put Method Average Performance for Binary Search Tree Hash Table size 10000  
4898.0
```

```
Put Method Average Performance for Hybrid Hash Table size 100  
2912.0
```

```
Put Method Average Performance for Hybrid Hash Table size 1000  
8200.0
```

```
Put Method Average Performance for Hybrid Hash Table size 10000  
37660.0
```

REMOVE METHOD

```
Remove Method Average Performance for Binary Search Tree Hash Table size 100  
1710.0
```

```
Remove Method Average Performance for Binary Search Tree Hash Table size 1000  
5598.0
```

```
Remove Method Average Performance for Binary Search Tree Hash Table size 10000  
12904.0
```

```
Remove Method Average Performance for Hybrid Hash Table size 100  
2003.0
```

```
Remove Method Average Performance for Hybrid Hash Table size 1000  
8109.0
```

```
Remove Method Average Performance for Hybrid Hash Table size 10000  
39970.0
```

Q2

MERGE SORT ELAPSED TIME

```
MergeSort Result 100 - 1000 -10000 Respectively  
39673.0 374536.0 4817091.0
```

QUICK SORT ELAPSED TIME

```
QuickSort Result 100 - 1000 -10000 Respectively  
34475.0 165486.0 2284948.0
```