

# Computer Networks

## Assignment 1- Report

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### Basic:

Key	Req1 (first time)	Req2 (second time)	Req3 (third time)	Average Time
Key1	2.468691	1.780383	2.025	2.091358
Key2	1.9123	1.9042	1.7432	1.85323
Key3	1.7813	1.806762	1.62	1.736
Key4	1.77	1.57	2.157	1.832
Key5	1.66	1.73	1.906	1.765
Key6	2.324	2.11	1.88	2.104

- The above values are in milliseconds.
- For the same key the time taken over multiple requests is not constant.
- The average time taken per request on an average is around 1.8 ms.

### Star:

Key	Req1 (first time)	Req2 (second time)	Req3 (third time)
Key1	7.61	1.82	1.603
Key2	5.703	1.32	1.624
Key3	6.99	1.501	1.758
Key4	6.555	2.158	1.477
Key5	6.437	1.63	1.74

Key6	6.54	1.74	1.77
<b>Average Time</b>	6.639166667	1.694833333	1.662

- The above values are in milliseconds.
- The average time taken for Req1 is 3 times that of Req2 and Req3.
- Path of Req1:  
Client -> Cache -> Server -> Cache -> Client
- Path of Req2 and Req3:  
Client -> Cache -> Client
- Since Req1 has to go to the server it takes more time.

### **PLAGIARISM STATEMENT**

*We certify that this assignment/report is our own work, based on our personal study and/or research and that we have acknowledged all material and sources used in its preparation, whether they be books, articles, packages, datasets, reports, lecture notes, and any other kind of document, electronic or personal communication. We also certify that this assignment/report has not previously been submitted for assessment/project in any other course lab, except where specific permission has been granted from all course instructors involved, or at any other time in this course, and that we have not copied in part or whole or otherwise plagiarized the work of other students and/or persons. We pledge to uphold the principles of honesty and responsibility at CSE@IITH. In addition, We understand my responsibility to report honor violations by other students if we become aware of it.*

Name: Adepu Adarsh Sai

Date: Oct 15, 2022

Signature: AAS