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
Average Time	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.