

## Lab 14

### Q2

#### Character Count

- $A = a - 20, b - 15, c - 5, d - 15, e - 45$

#### 1<sup>st</sup> Pass

- $a - 20, b - 15, e - 45, P1 - 20$

#### 2<sup>nd</sup> Pass

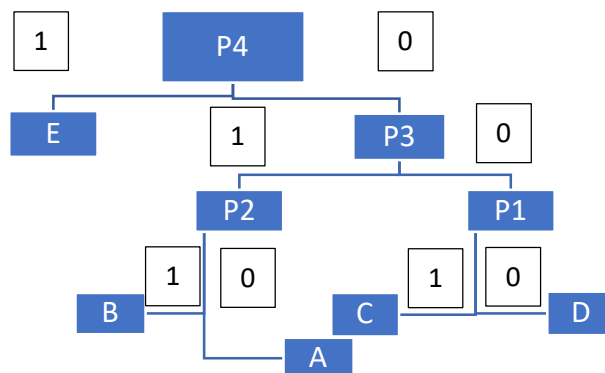
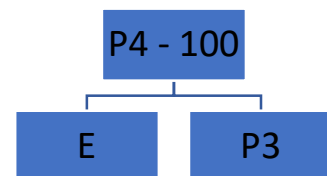
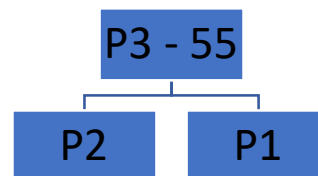
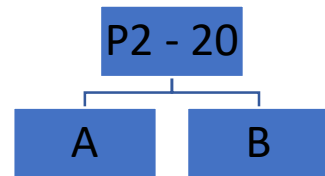
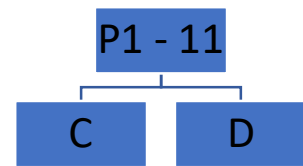
- $e - 45, P2 - 35, P1 - 20$

#### 3<sup>rd</sup> Pass

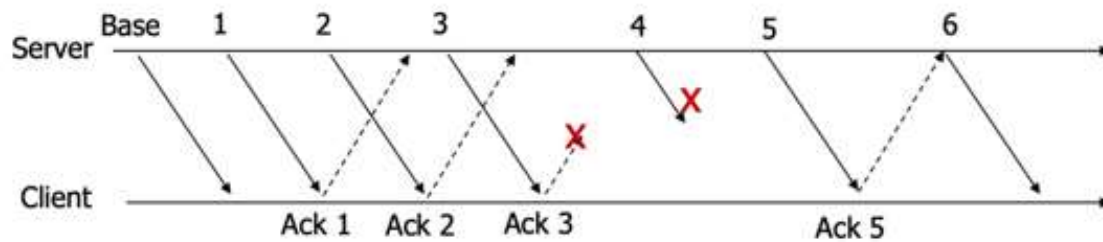
- $e - 45, P3 - 55$

#### 4<sup>th</sup> Pass

- $P4 - 100$



Q2



1. The server sends Base state.
2. The server sends changes for ID 1.
3. The client receives ID 1 changes and sends ACK 1.
4. The server will send changes for ID 2.
5. Decompress ID 1
6. The sever will receive ACK 1.
7. The client receives ID 1 changes and sends ACK 2.
8. The server will then send changes for ID 3.
9. The server will receive ACK 2.
10. The client sends ACK 3 but its lost.
11. The server sends ID 4 changes but is also lost.
12. The server sends ID 5.
13. Client receive Changes for ID 5 and send ACK 5.
14. The decompress ID 5 with state 3.
15. The server will receive ACK 5.
16. The server sends ID 6.

Q3

BABAABAAA

Dictionary
A = 0
B = 1

**B**ABAABAAA

- B in Dictionary
- BA not so BA = 2

Dictionary
A = 0
B = 1
BA = 2

BABAABAAA

- A in Dictionary
- AB not so AB = 3

Dictionary
A = 0
B = 1
BA = 2
AB = 3

BABAABAAA

- B in Dictionary
- BA in Dictionary
- BAA not so BAA = 4

Dictionary
A = 0
B = 1
BA = 2
AB = 3
BAA = 4

BABAABAAA

- A in Dictionary
- AA not so AA = 5

Dictionary
A = 0
B = 1
BA = 2
AB = 3
BAA = 4
AA = 5

BABAABAAA

- A in Dictionary
- AB in Dictionary
- ABA not so ABA = 6

Dictionary
A = 0
B = 1
BA = 2
AB = 3
BAA = 4
AA = 5
ABA = 6

BABAABAAA

- B in Dictionary
- BA in Dictionary
- BAA in Dictionary

Dictionary
A = 0
B = 1
BA = 2
AB = 3
BAA = 4
AA = 5
ABA = 6

BABAABAAA

- A in Dictionary
- AA in Dictionary
- AAA not so AAA = 7

Dictionary
A = 0
B = 1
BA = 2
AB = 3
BAA = 4
AA = 5
ABA = 6
AAA = 7

BABAABAAA

- A in Dictionary
- AA in Dictionary

Dictionary
A = 0
B = 1
BA = 2
AB = 3
BAA = 4
AA = 5
ABA = 6
AAA = 7