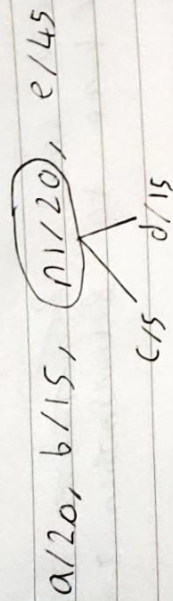
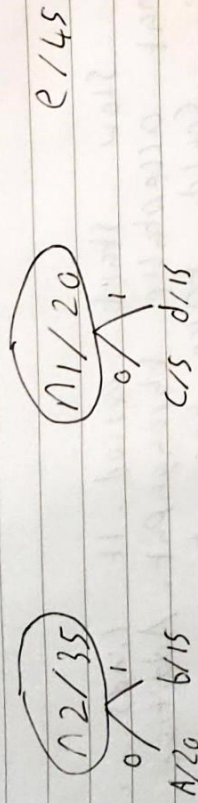


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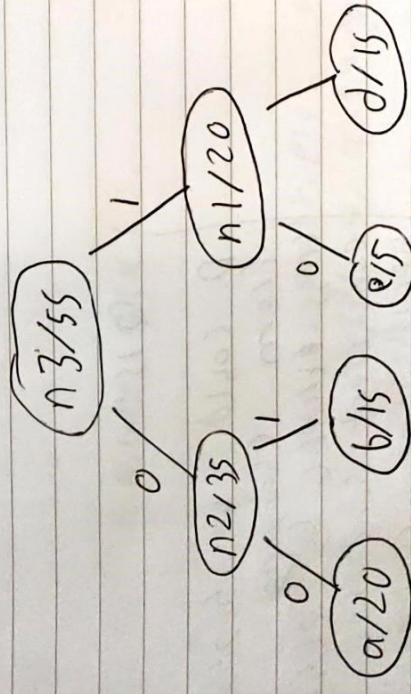
2) $A = \{a/20, b/15, c/5, d/15, e/45\}$



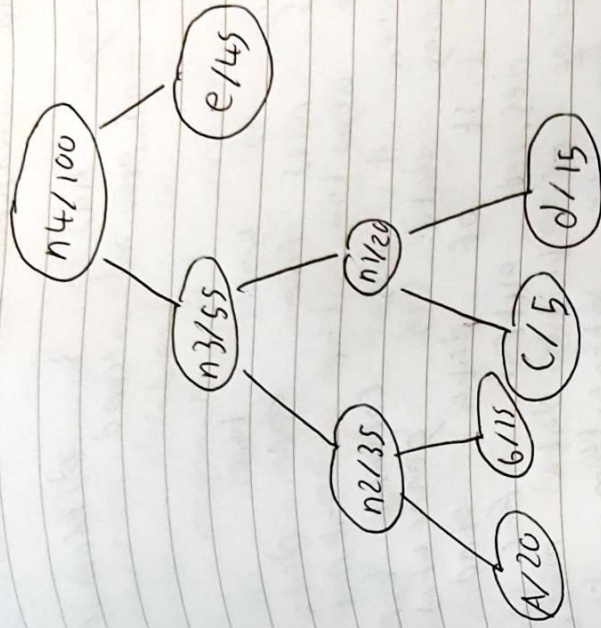
$A_1 = \{a/20, b/15, n1/20, e/45\}$



$A_2 = \{n2/35, n1/20, e/45\}$



$A = \{n3/55, e/45\}$



$A = 000$
 $b = 001$
 $c = 010$
 $d = 011$
 $e = 1$

Total = $(20 \cdot 3) + (15 \cdot 3) + (5 \cdot 3) + (15 \cdot 3) +$

$(45 \cdot 1) = 60 + 45 + 15 + 45 + 45 = 210$

Q3) ~~Receiver side~~

Client: Decompress the received state using State 1. base state gets discarded

Server: gets acknowledgement of state 2

Client: received state changes with ID of 3

Server: fails to receive acknowledgement

Server: Since 2, ID is 4 and packet is lost.

Client: Decompresses received state using state 3. 1 and 2 get discarded.

Server: Since state 3, ID is 15

Client: Acknowledgement 5 sent

Server: ACK received, server sent packet 6

4) Compress String BABABAAA

encoder	output	String	Table
66	B	256	BA
			BA

P = A
C = empty

encoder	output	String	Table
66	B	256	BA
65	A	257	AB
			BA

P = B
C = empty

encoder	output	String	Table
66	D	256	DA
65	A	257	AB
256	BA	258	BAA
			BA

P = A
C = empty

encoder	output	String	Table
66	B	256	BA
65	A	257	AB
256	BA	258	DAA
257	AB	259	ADA
			BA

P = A
C = empty

encoder	outPut	string	Table	BA BAA
66	B	256	BA	
65	A	257	AB	P: A
256	BA	258	BAA	C: A
257	AB	259	ABA	
65	A	260	AA	

encoder	outPut	string	Table	BA BAA B
66	B	256	BA	
65	A	257	AB	
256	BA	258	BAA	P: AA
257	AB	259	ABA	C: empty
65	A	260	AA	
260	AA			