

HW3

Exercise 1.

1. Reno Version

Explain: for the reno version, the window size would be cut in half and then grow linearly

2. interval 0-5, 7-12, 11

3. interval 5-7, 11-12

4. By triple duplicate ACK

5. By Time out

6. it is in the middle between 30 and 35, I

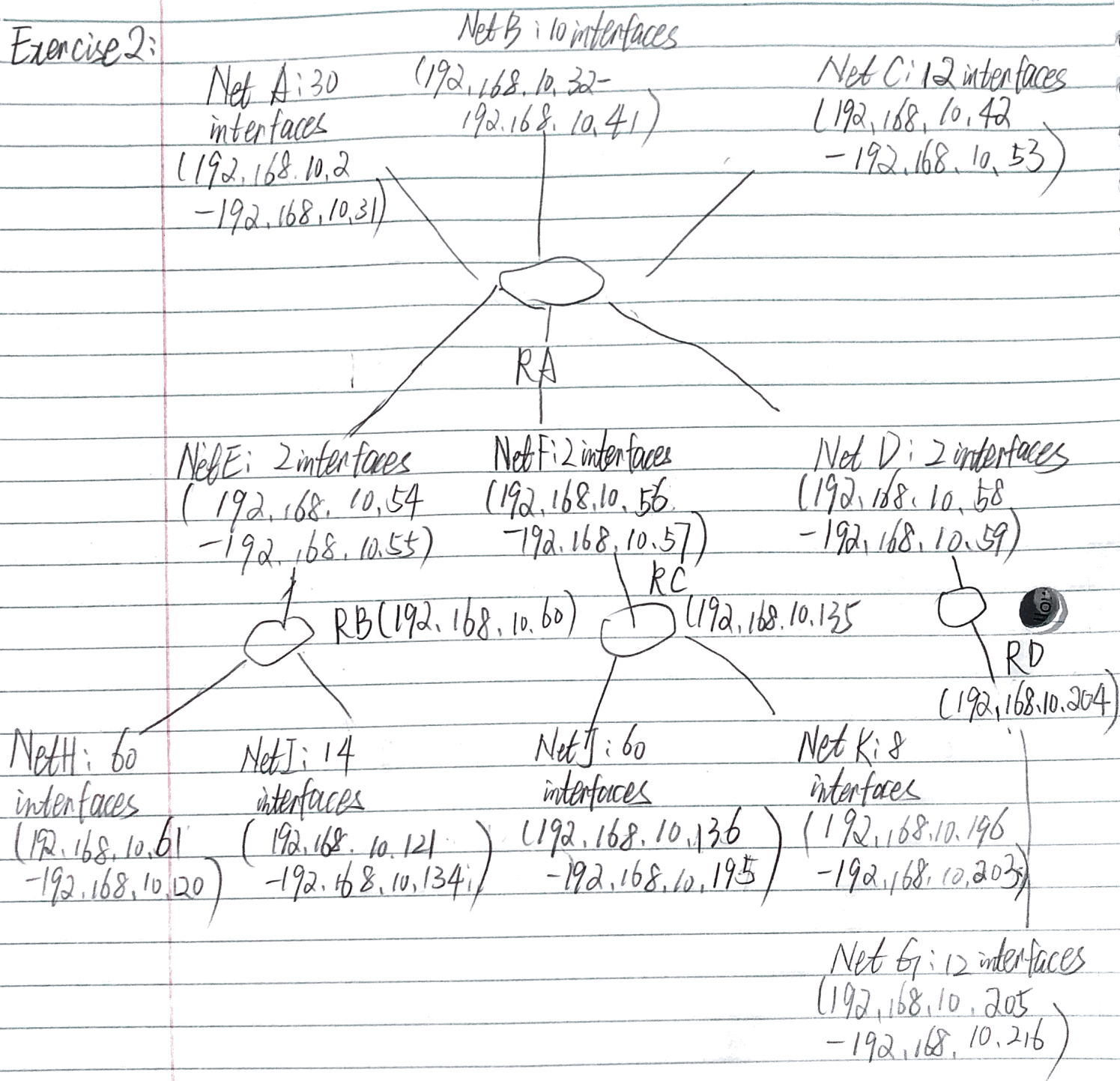
Assume it is 32 or 33

7. the threshold is the window size that was half of the initial and it is end of the exponent curve from 7-11, so it is $\frac{3^2}{2} = 16$

8. the threshold is the window size that was half of the one in front which is the window size at 12th round and I assume it is 20

$\therefore \frac{20}{2} = 10$ as ssthresh at 13th transmission round

Exercise 2:



Exercise 3.

step	N'	p(E)	p(G)	p(D)	p(H)	p(B)	p(C)	p(A)
0	F	(1, F)	6, F	3, F	∞	∞	∞	∞
1	FE		6, F	(2, E)	∞	∞	4, E	∞
2	FED		3, D		∞	11, D	(3, V)	∞
3	FEDC				∞	(5, C)		7, C
4	FEDCB				7, B			(6, B)
5	FEDCBA							

\therefore From node F to all other network shortest

F \rightarrow A : 6

F \rightarrow B : 5

F \rightarrow C : 3

F \rightarrow D : 2

F \rightarrow E : 1

F \rightarrow G : 3

F \rightarrow H : 7