

Dear Professor Chen,

I hope this email finds you well.

I am currently reviewing Exercise 4.2 on FP-Growth (specifically slide 77, which I have attached for reference) and had a question about determining the conditional pattern base.

The exercise asks for the conditional pattern base for item 'E'.

1. {ACD:1, AD:1, BC:1}
2. {ACD:1, AD:1, C:1}

Could you please clarify which conditional pattern base for 'E' is correct? In other words, if I am asked to write CPB-E in the exam, should I write the one before deletion (similar to 1) or the one after deletion (similar to 2)?

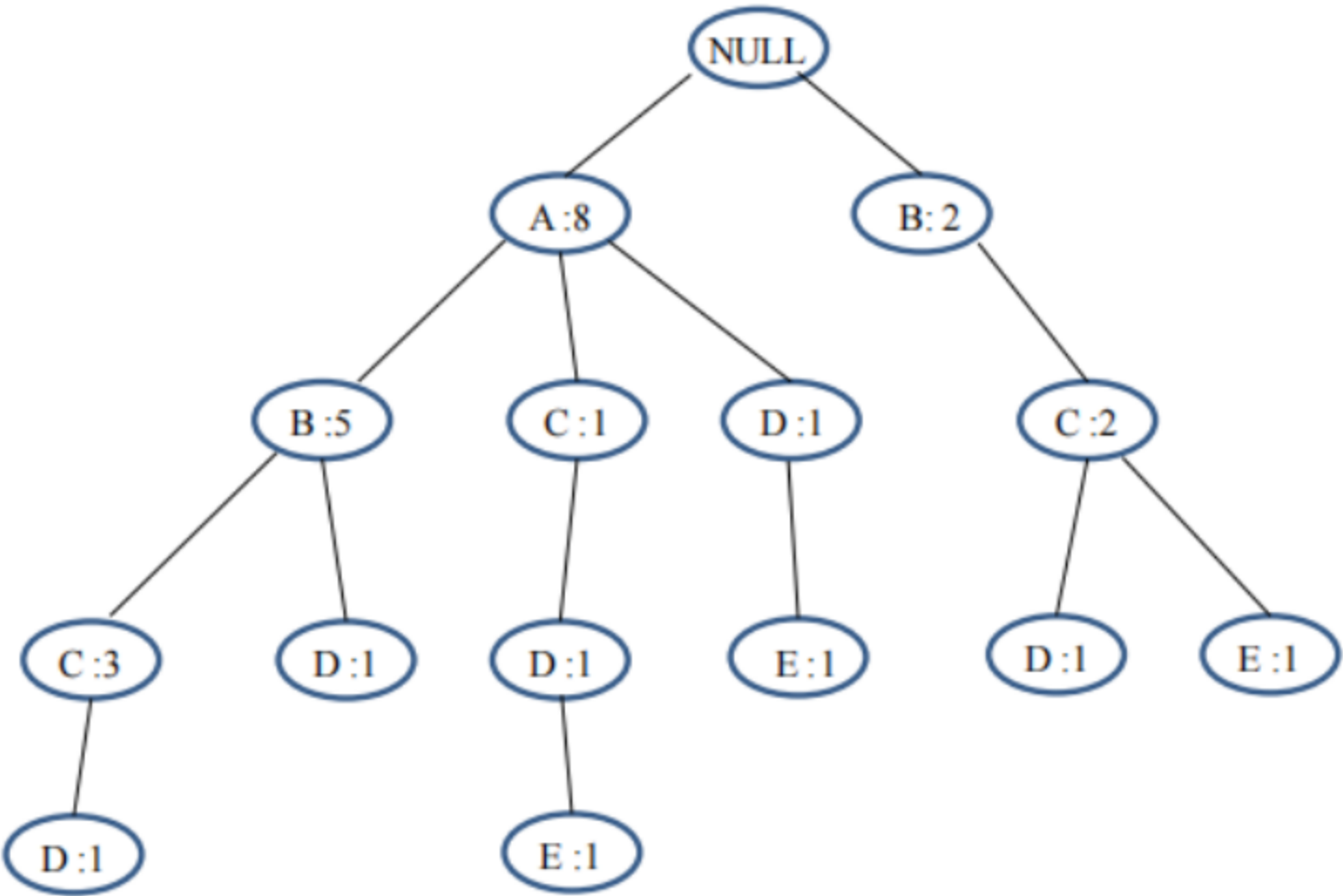
Thank you for your time and clarification.

Best regards,

Zongze Li

Exercise 4.2 : 1) FP-Growth discussions

TID	Items (Sorted F-list)
1	{A,B}
2	{B,C,D}
3	{A,C,D,E}
4	{A,D,E}
5	{A,B,C}
6	{A,B,C,D}
7	{A}
8	{A,B,C}
9	{A,B,D}
10	{B,C,E}



Look for conditional pattern base - E

E: ACD:1, AD:1, BC:1 <sup>1</sup>=> (A:2; ~~B:1~~; C:2; D:2)  
=> ACD:1, AD:1, ~~C:1~~ <sup>2</sup>  
=> AD:2, A:2; C:2; D:2

fp |E : ADE=2; AE=2; CE=2; DE=2;

The final one: 2.

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