

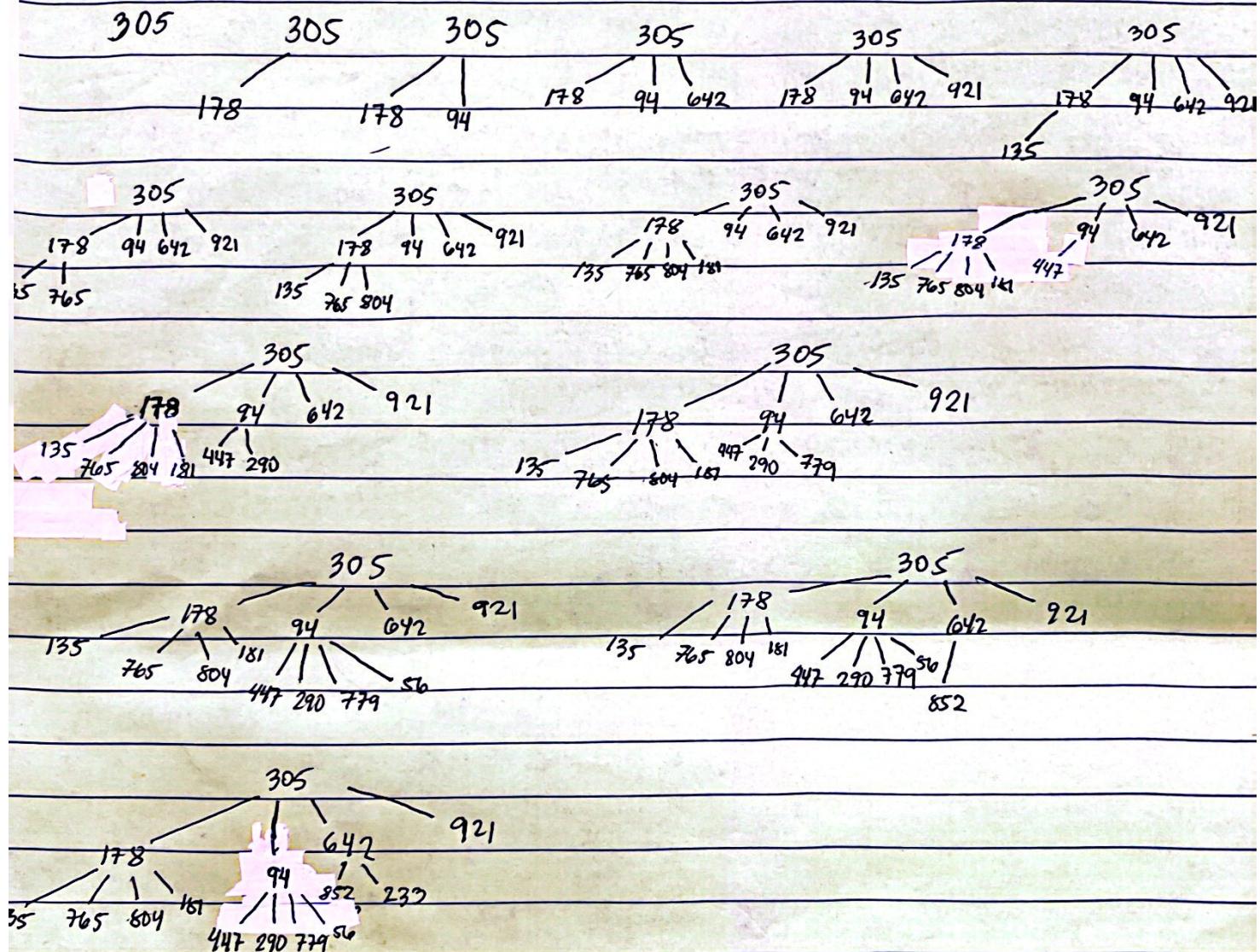
NO. _____

DATE _____

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BS CP E-1

1. General Tree

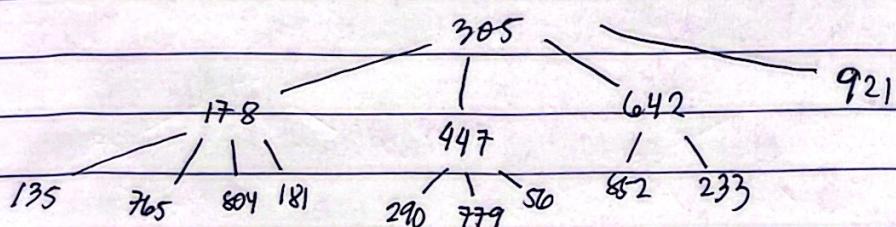
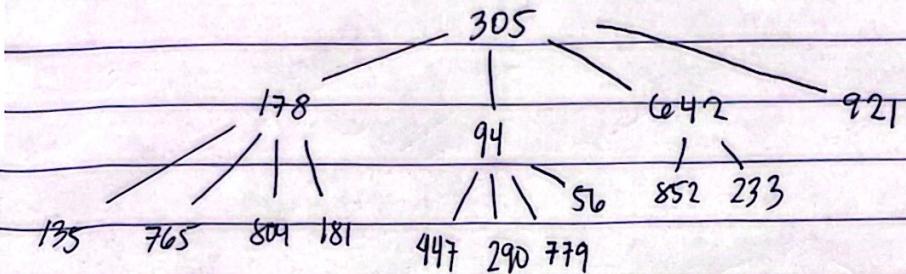


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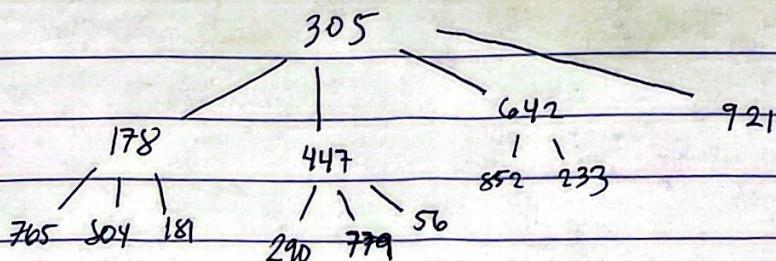
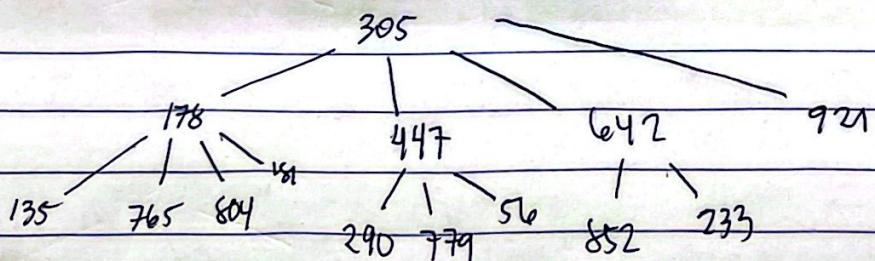
DATE _____

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1a.) delete 94



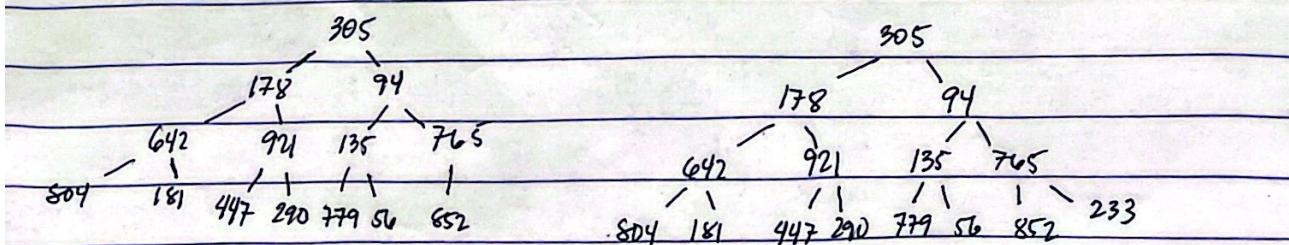
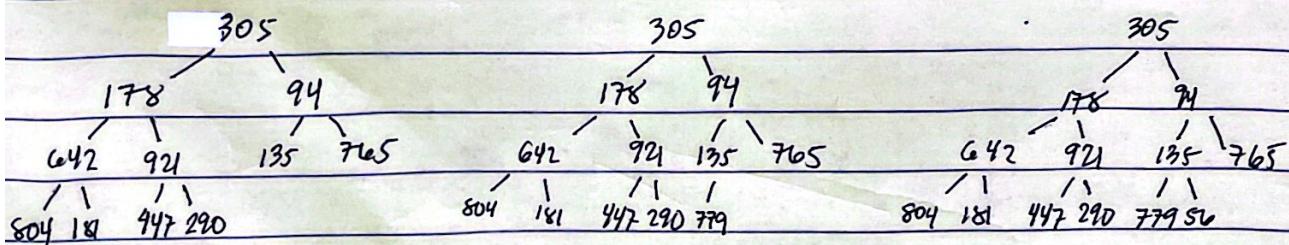
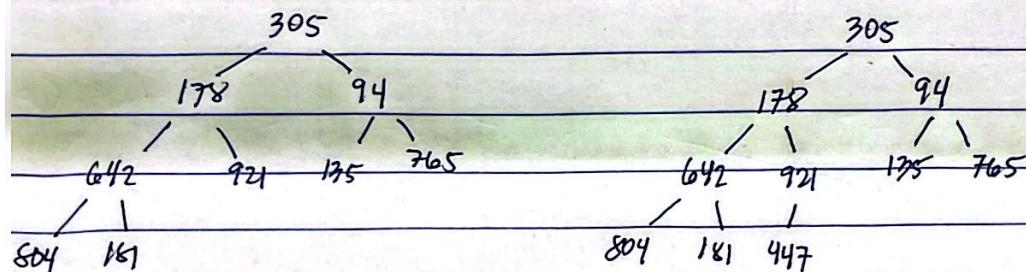
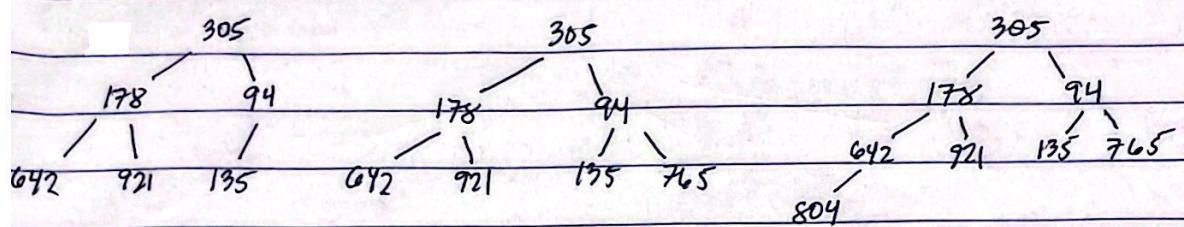
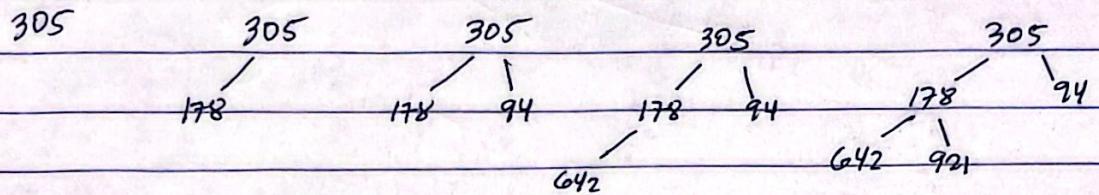
b.) delete 135



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2. Binary Tree



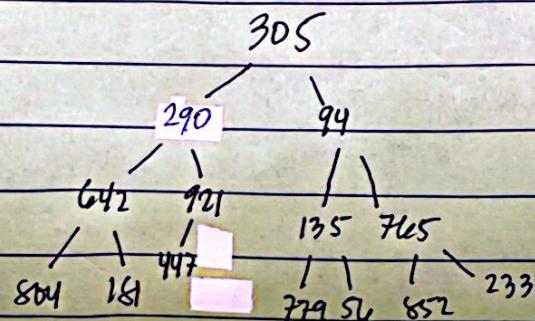
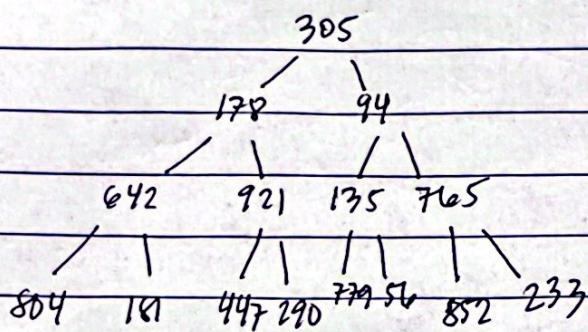
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DATE _____

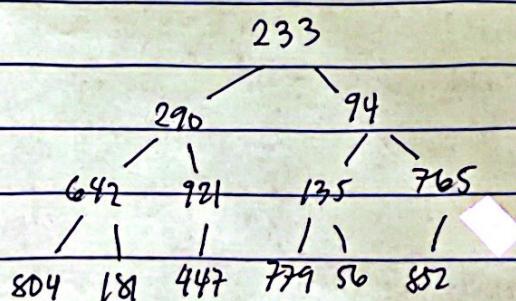
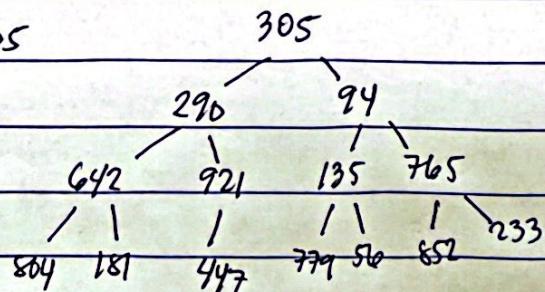
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BS CPF - 1

2a.) delete 178



2b.) delete 305



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3.) Binary Search Tree

305

305

305

305

305

178

178

178

178

178

94

94

94

921

305

305

305

305

178

178

178

178

94

94

94

921

135

135

135

765

305

305

178

178

178

94

94

94

765

135

765

804

804

305

305

178

178

94

94

94

135

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305

305

178

178

94

94

94

135

135

765

290

290

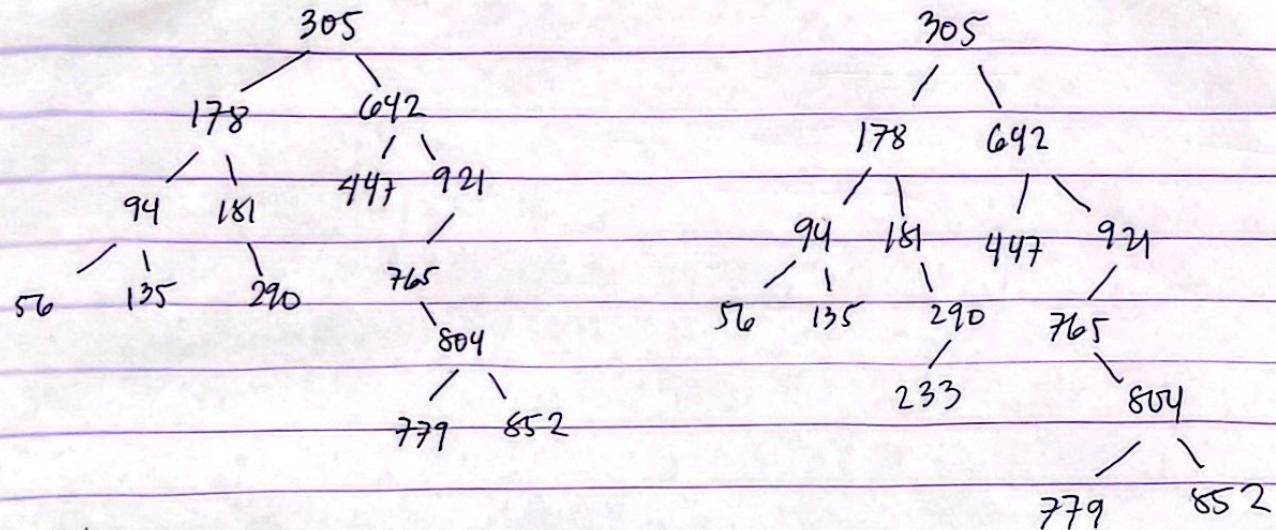
779

804

779

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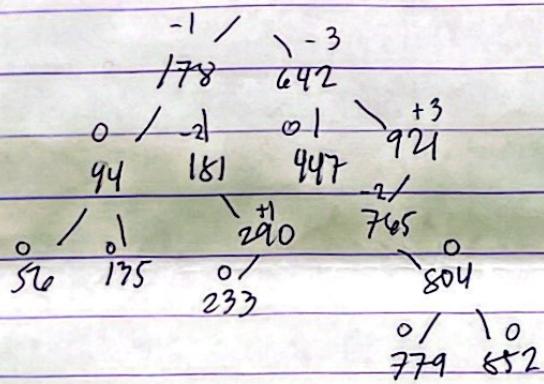
BS CP6 - 1



balance factor

-1

305



a.) Parenthetical Form :

 $305(178(94(56)(135))(181(290)(233)))$ $642(447)(921(765(804(779)(852))))$

b.)

i.) balance factor = -1

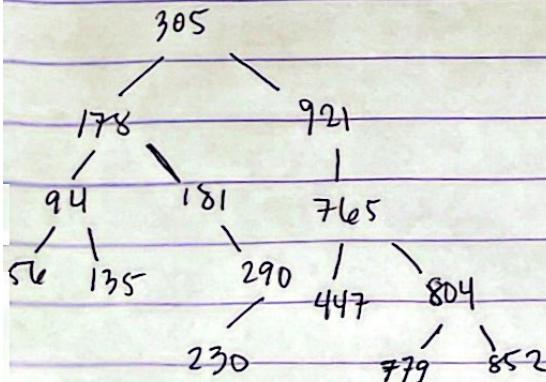
ii.) Internal nodes :

178, 642, 94, 181, 921, 290, 765, 804

c. delete 642 by method 2

iii.) External nodes :

56, 135, 233, 447, 779, 852

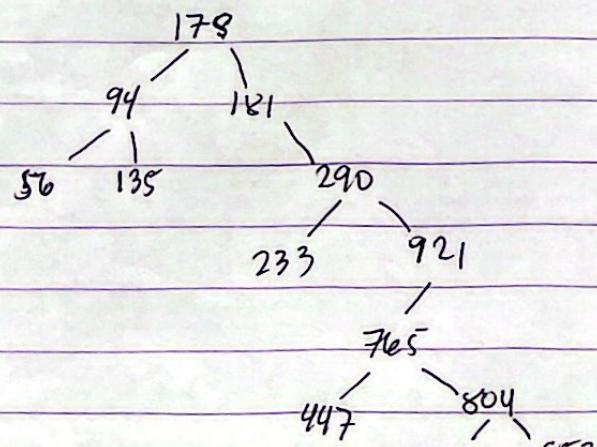


iv.) siblings :

 $(178, 642) (94, 181) (56, 135)$ $(447, 921) (779, 852)$

v.) No. of subtrees = 8

d.) delete 305 by method 1

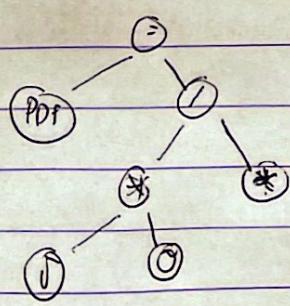
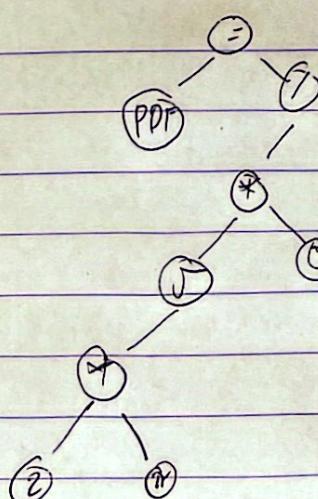
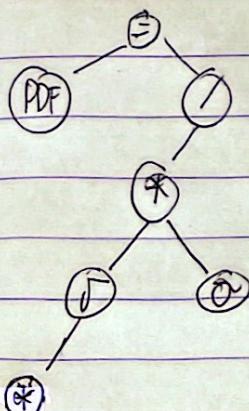
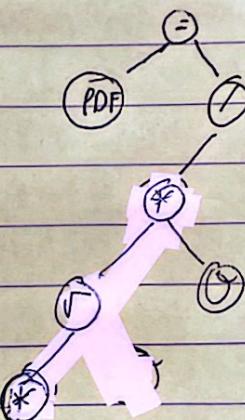
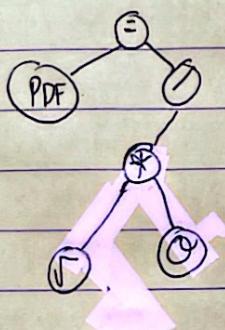
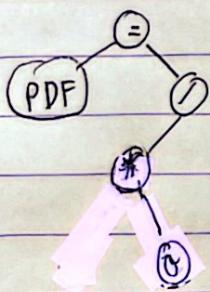
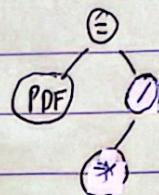
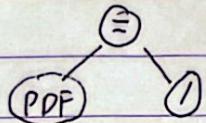
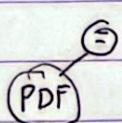


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4.) Expression Tree

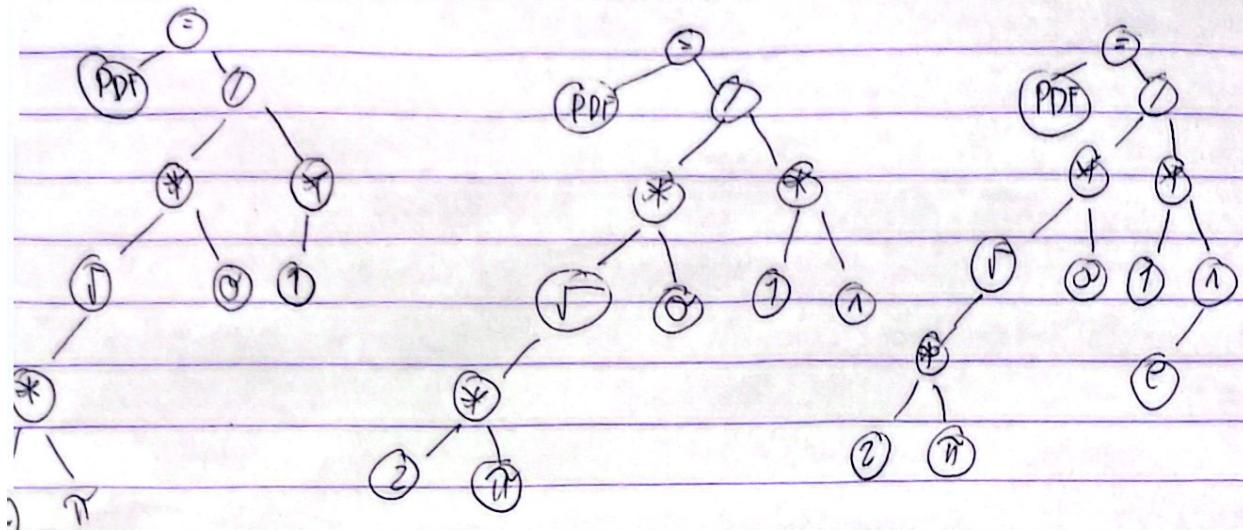
$$\text{PDF} = \frac{1}{\sigma \sqrt{2\pi}} e^{\frac{1}{2} \left(\frac{x-\mu}{\sigma} \right)^2}$$

(2)

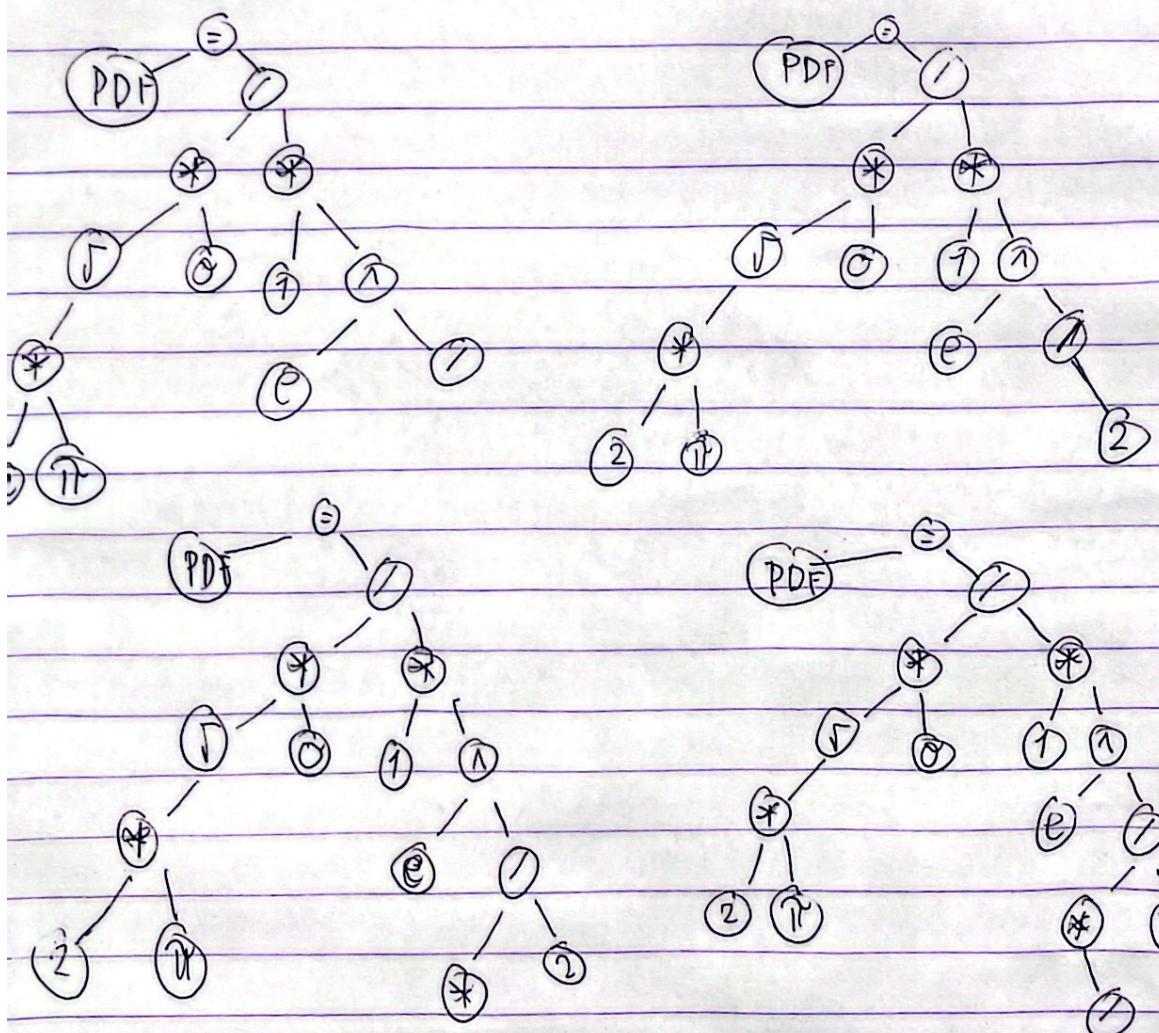


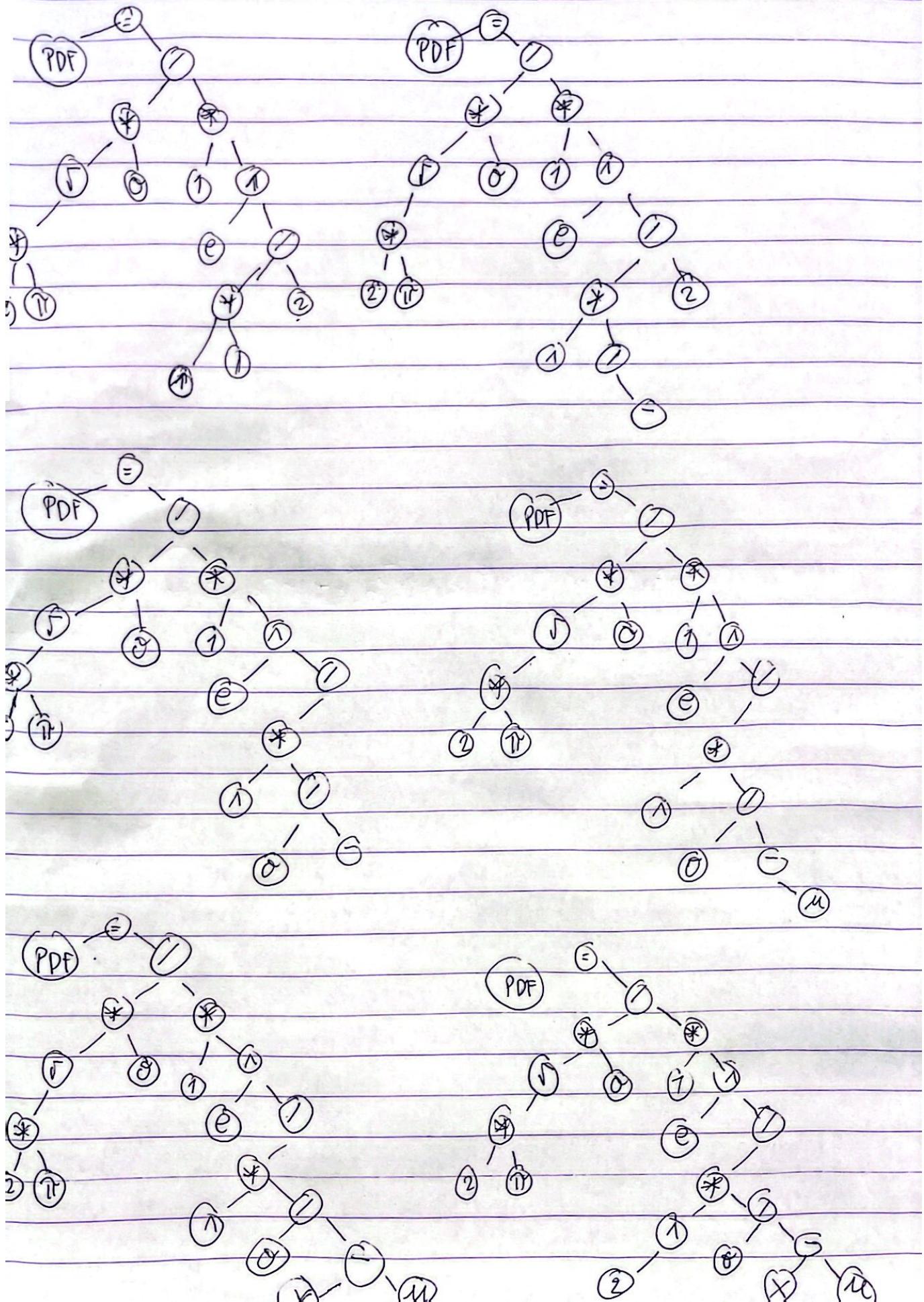
(2)

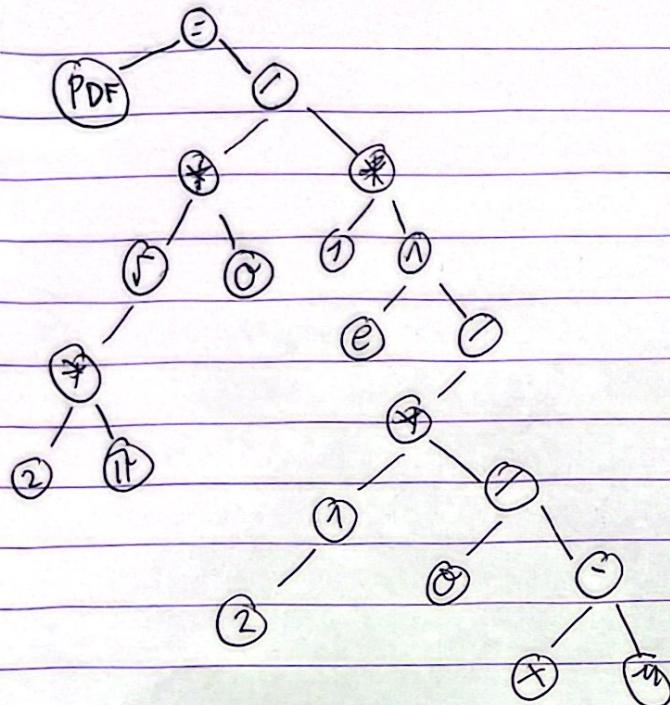
1)



2)







i. Breadth-First : =, PDF, /, *, *, ^, 2, 1, 1, *, e, 2, 1, 2, 1, 0, -x, m

ii. Prefix order : =, PDF, /, *, 2, ^, 1, 1, *, 1, e, 1, *, 2, 1, 0, -, x, m

iii. Infix order : PDF, =, 2, *, ^, 1, 1, *, 1, 0, /, 1, *, .