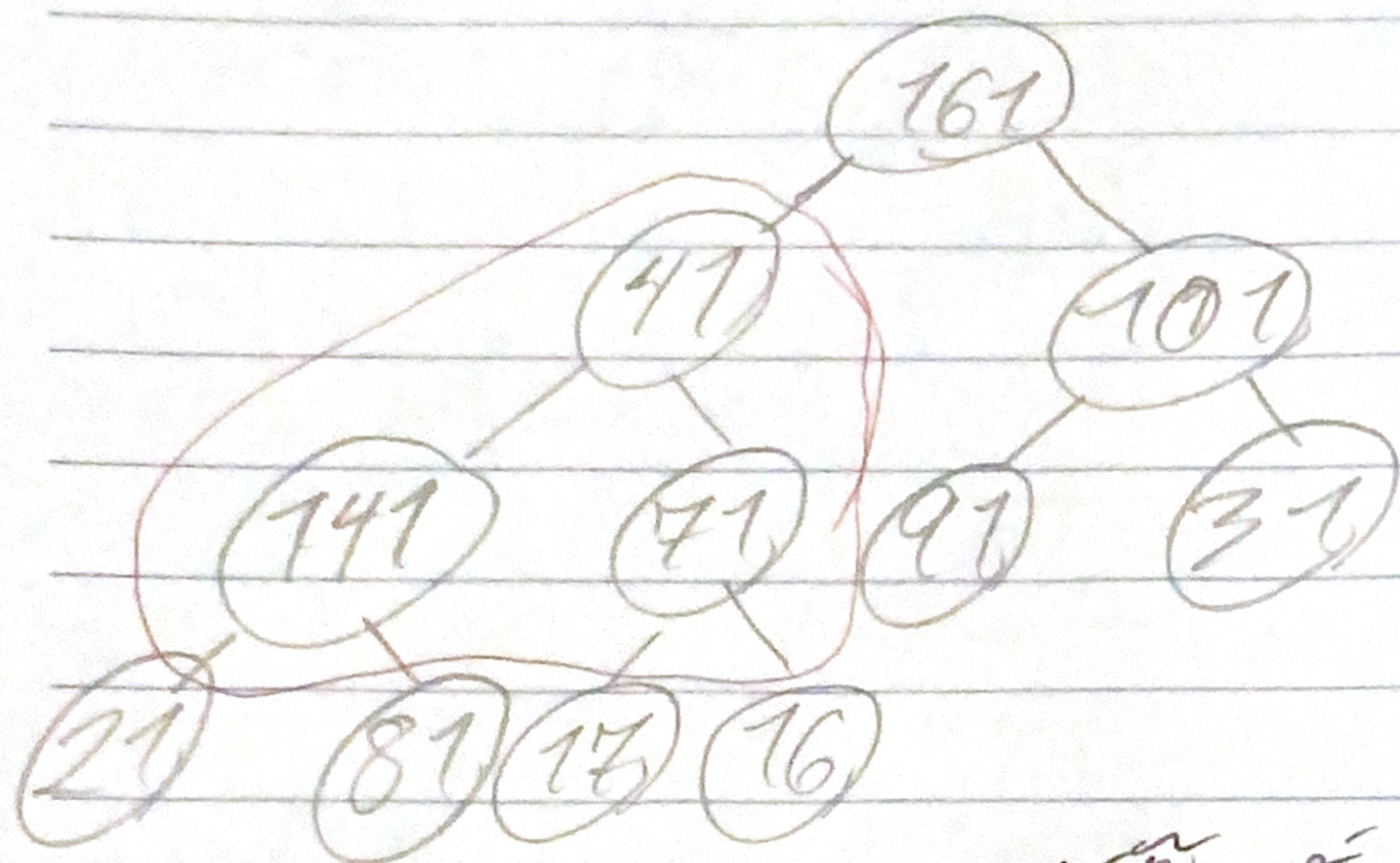


Averrho 22

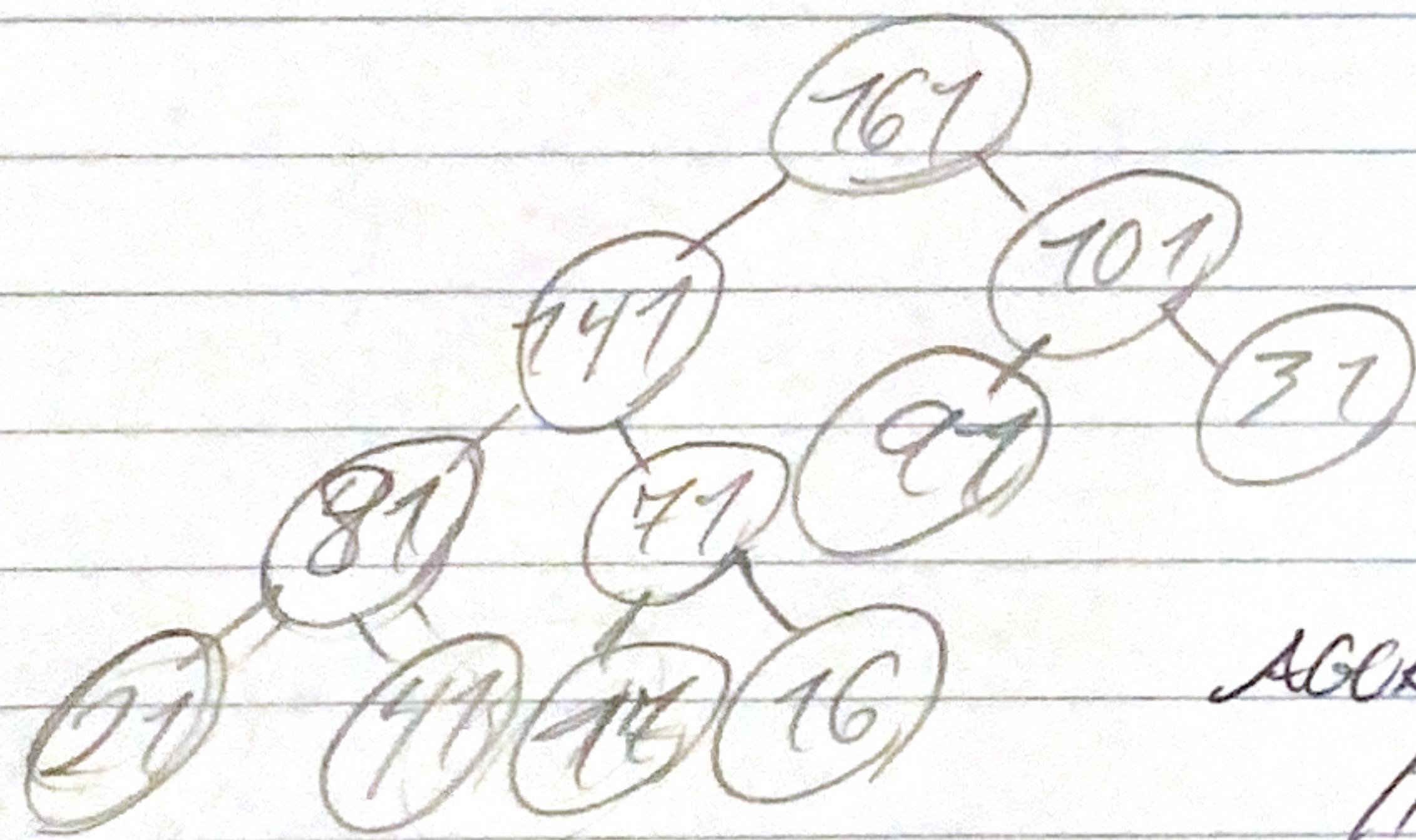


NÃO É UM HEAP

POIS EXISTEM FILHOS COM

PROPRIADES MAIOR QUE O PAI

~~141 > 41~~, ~~141 > 91~~



ACIMA É UM  
HEAP

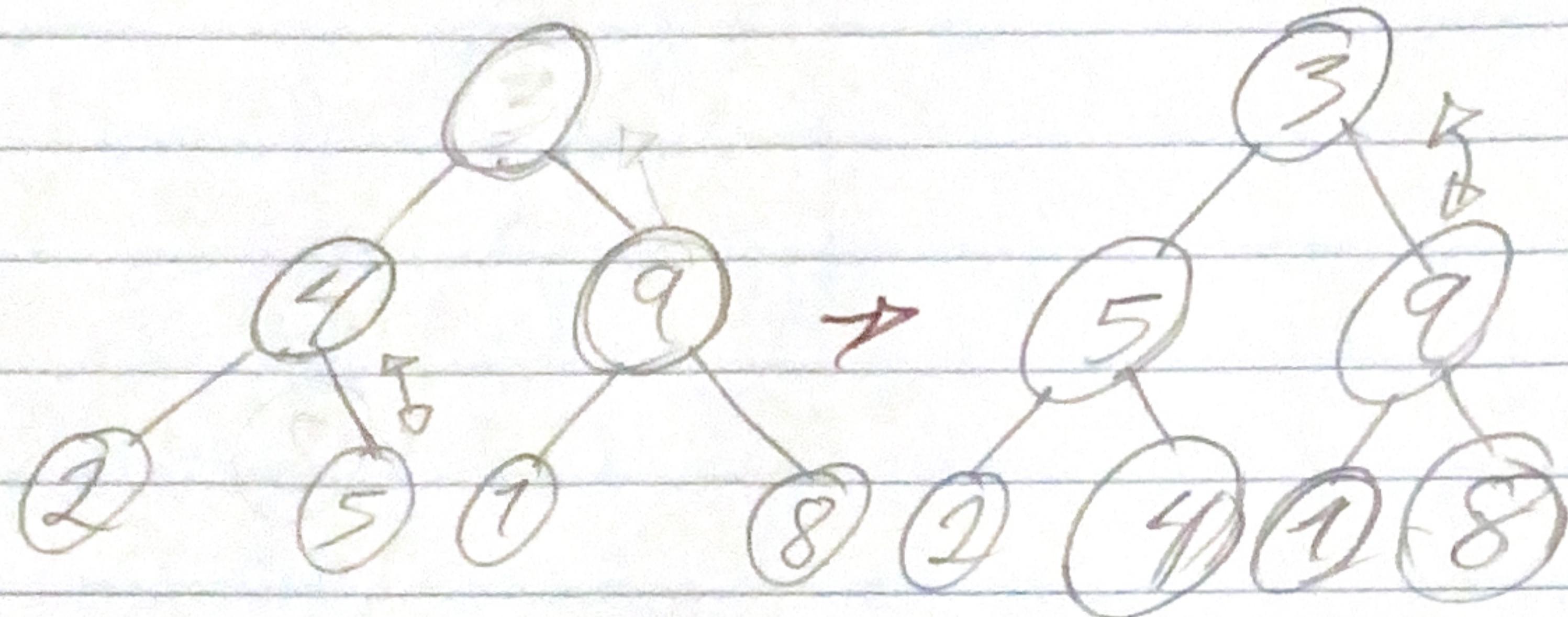
Aurora 23 A

$(i-1)/2 - \text{par}$

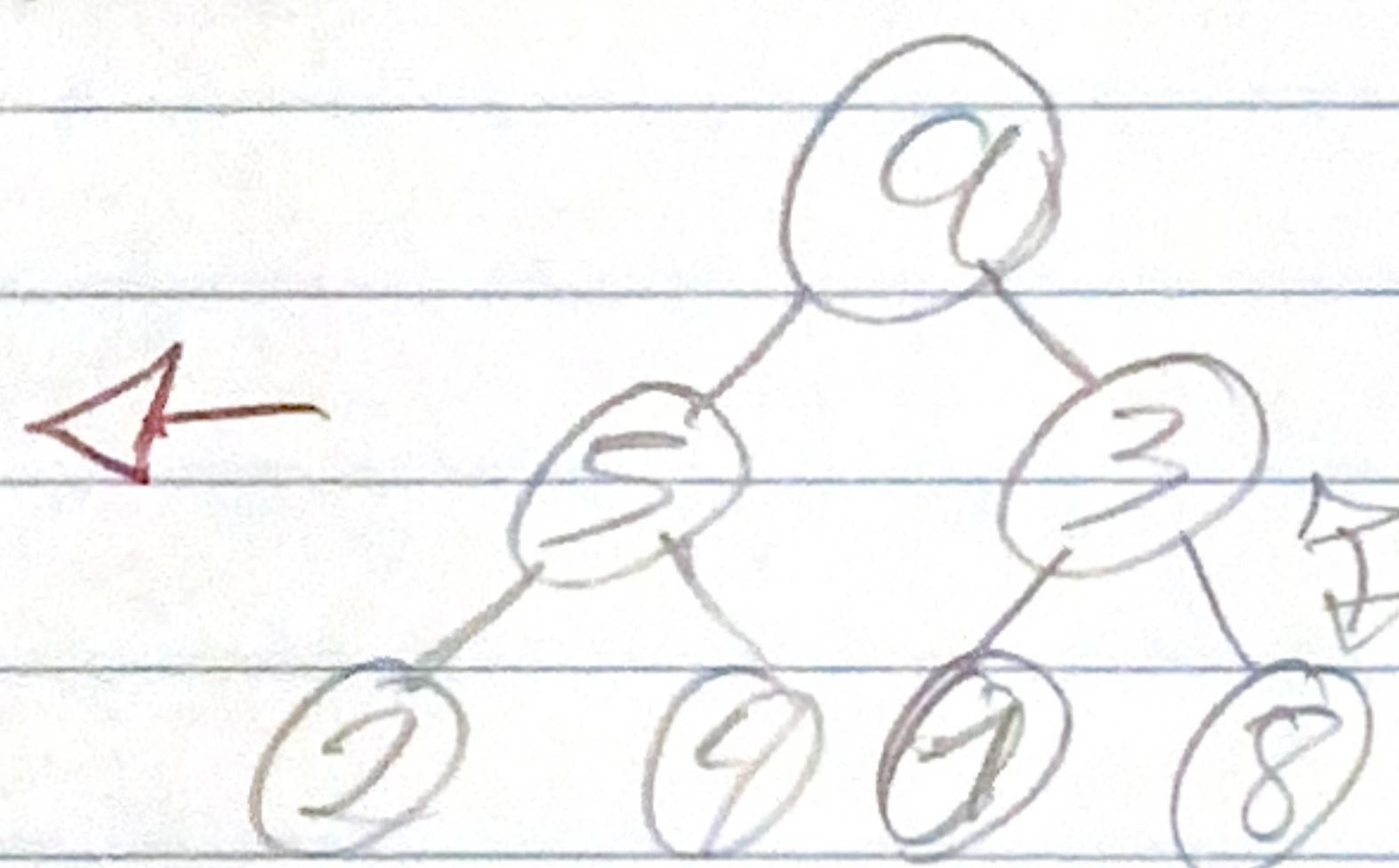
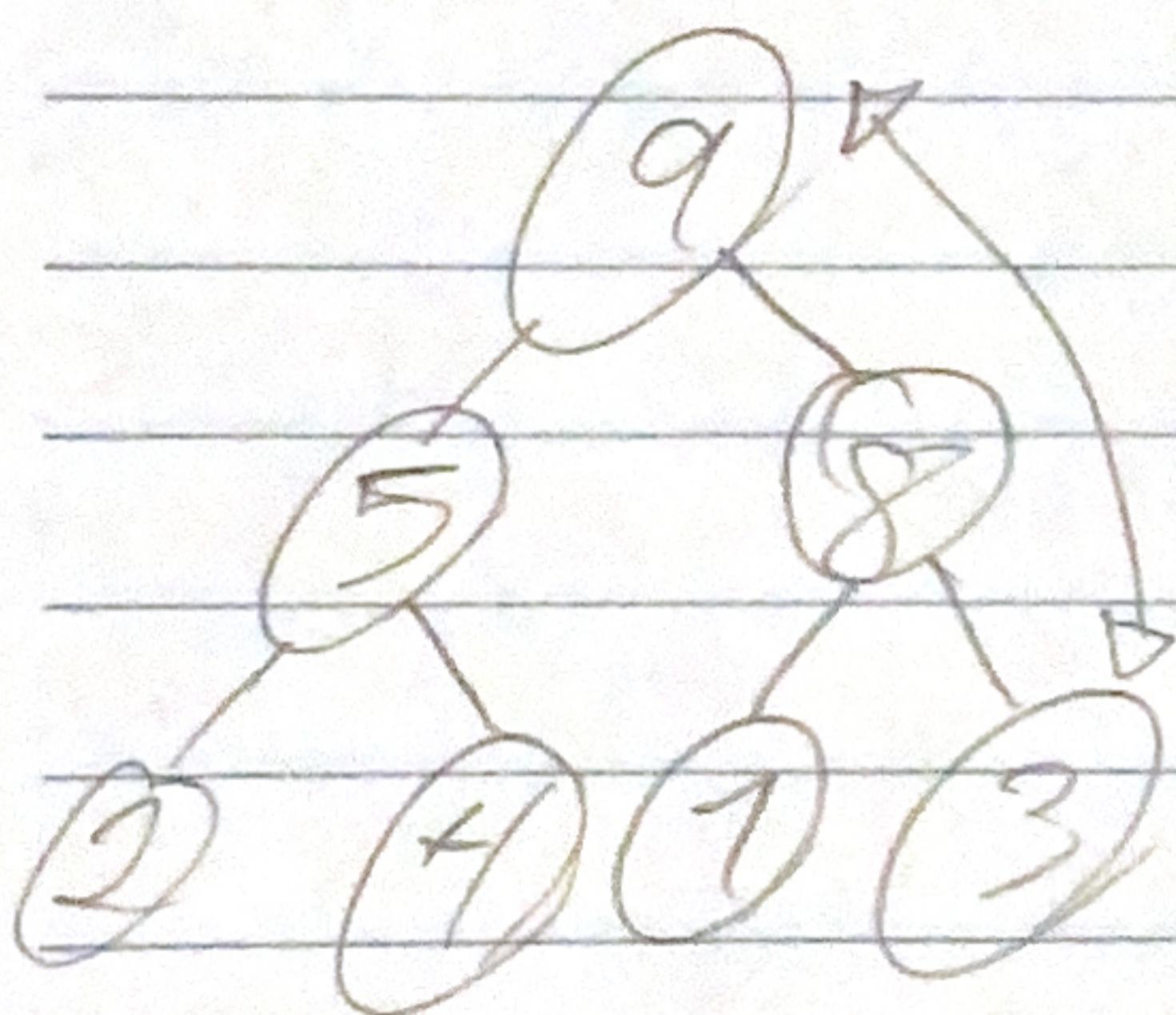
$\{(2 \cdot i) + 1\} \text{ FC}$

$\{(2 \cdot i) + 2\} \text{ FD}$

$\boxed{3 \ 4 \ 9 \ 2 \ 5 \ 7 \ 8}$



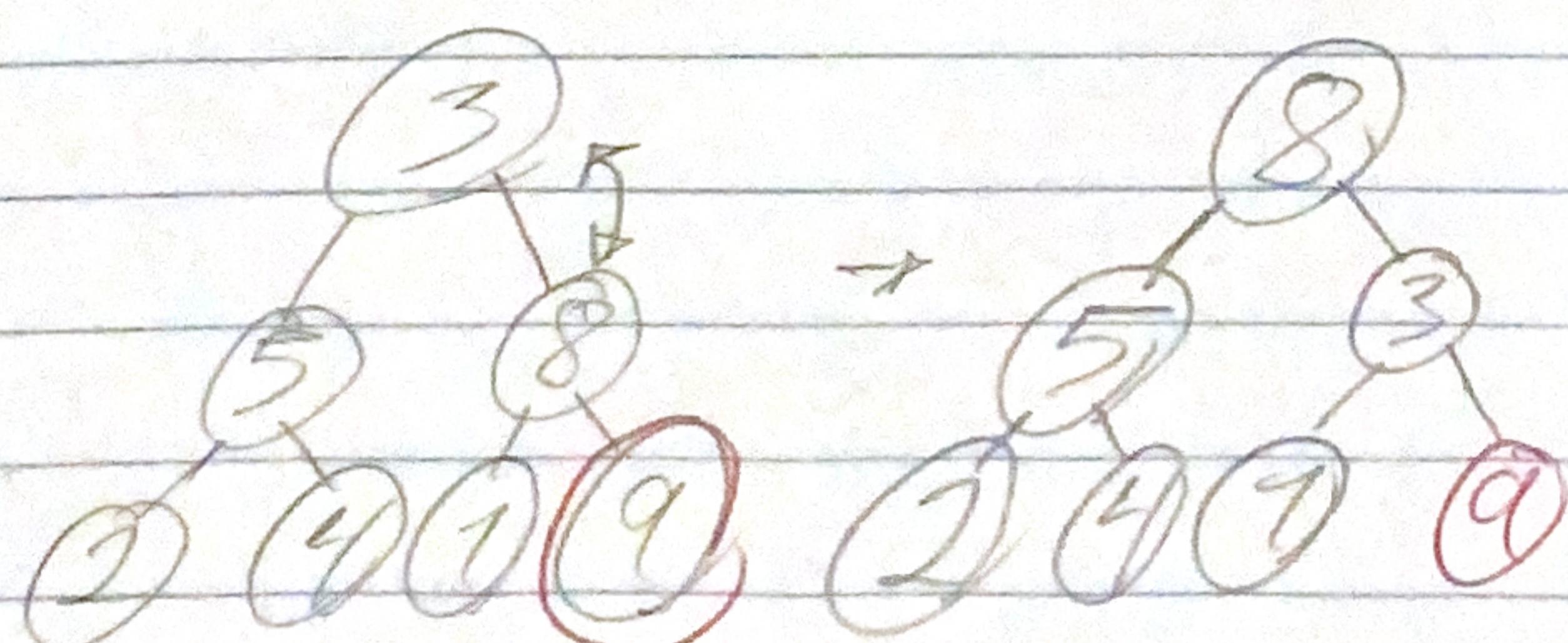
$\boxed{3 \ 5 \ 9 \ 2 \ 4 \ 7 \ 8}$



$\boxed{9 \ 5 \ 3 \ 2 \ 4 \ 7 \ 8}$

$\boxed{9 \ 5 \ 8 \ 2 \ 4 \ 7 \ 3}$

$\boxed{3 \ 5 \ 8 \ 2 \ 9 \ 1 \ 9}$



$\boxed{8 \ 5 \ 3 \ 2 \ 9 \ 7 \ 9}$



$$\begin{array}{c} \text{Q} \\ \text{Q} \end{array} + \begin{array}{c} \text{Q} \\ \text{Q} \end{array} = \begin{array}{c} \text{Q} \\ \text{Q} \end{array}$$

4 5 8 9      4 5 8 9

3, 2, 7, 4, 5, 8, 9

2, 2, 3, 4, 5, 8, 9

$$\begin{array}{c} \text{Q} \\ \text{Q} \end{array} + \begin{array}{c} \text{Q} \\ \text{Q} \end{array} = \begin{array}{c} \text{Q} \\ \text{Q} \end{array}$$

4 5 8 9      4 5 8 9

1, 2, 3, 4, 5, 8, 9

2, 1, 3, 4, 5, 8, 9

1, 2, 3, 4, 5, 8, 9

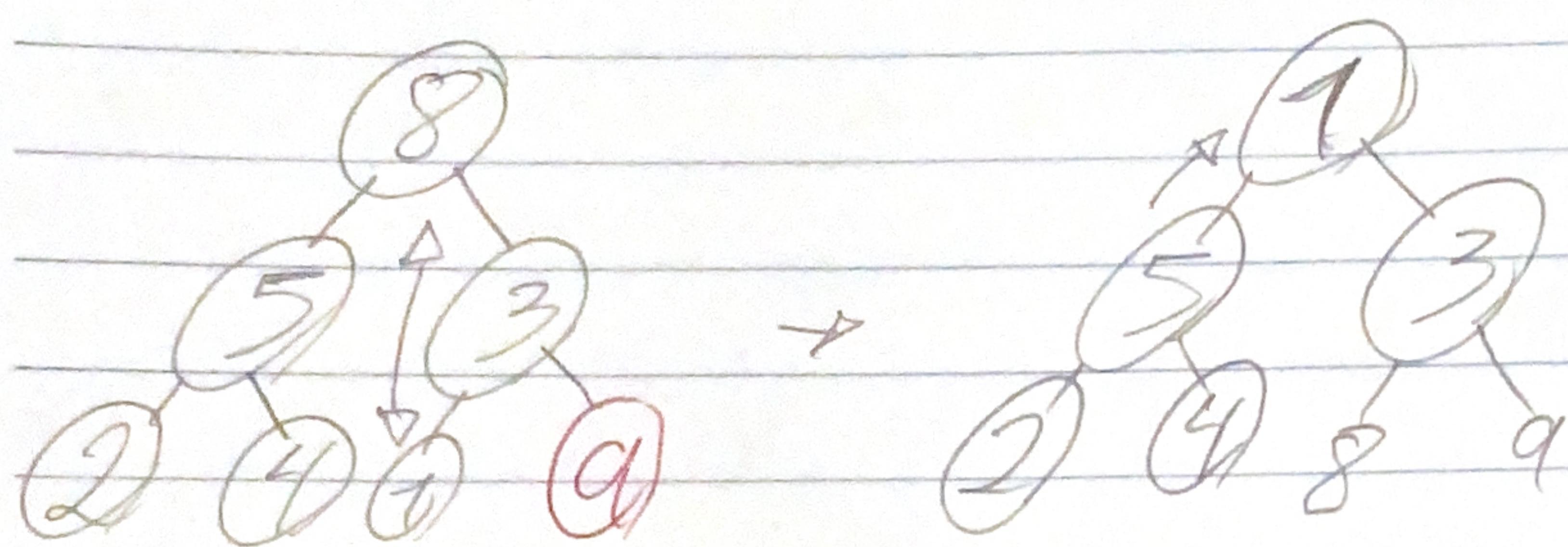
$$\begin{array}{c} \text{Q} \\ \text{Q} \end{array} + \begin{array}{c} \text{Q} \\ \text{Q} \end{array} = \begin{array}{c} \text{Q} \\ \text{Q} \end{array}$$

4 5 8 9      4 5 8 9

1, 2, 3, 4, 5, 8, 9

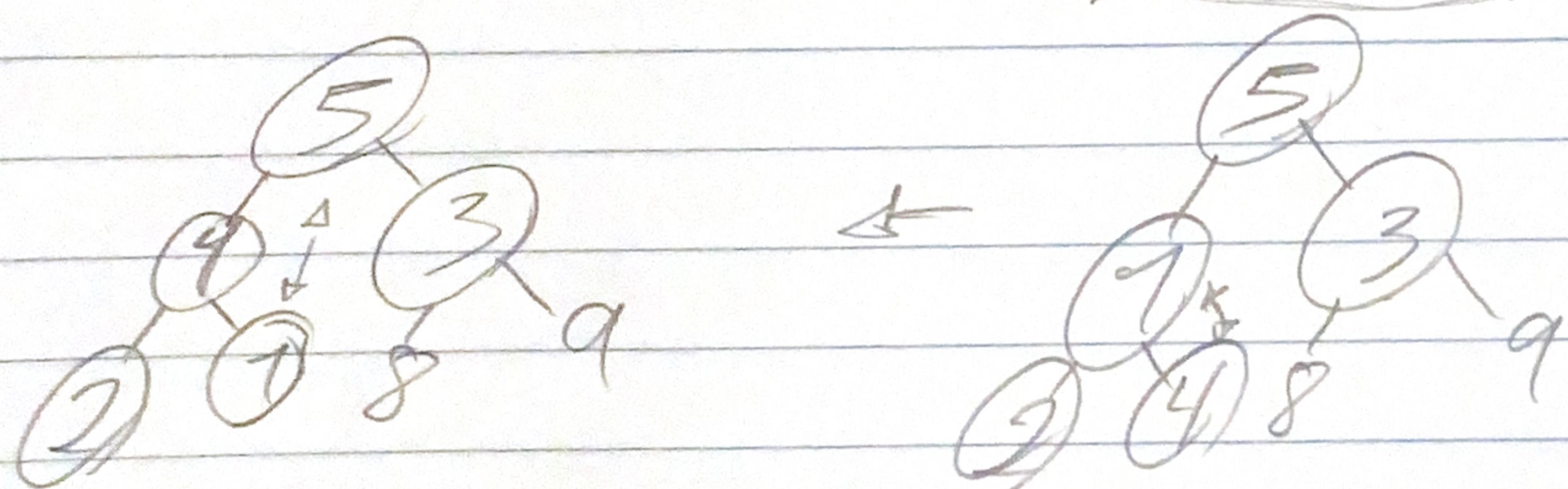


8 | 5 | 3 | 2 | 4 | 1 | 9

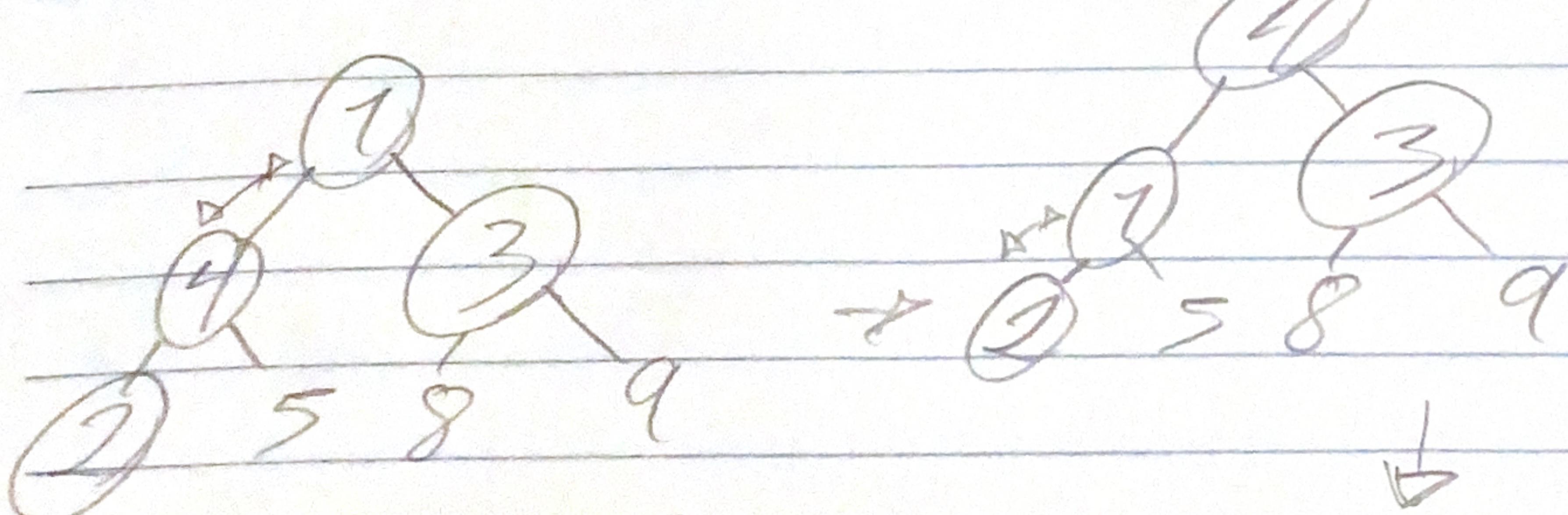


1, 5, 3, 2, 4] 8, 9  
ab

5 9, 3, 2, 7] 8, 9 + 5 1 3 2 9] 8, 9

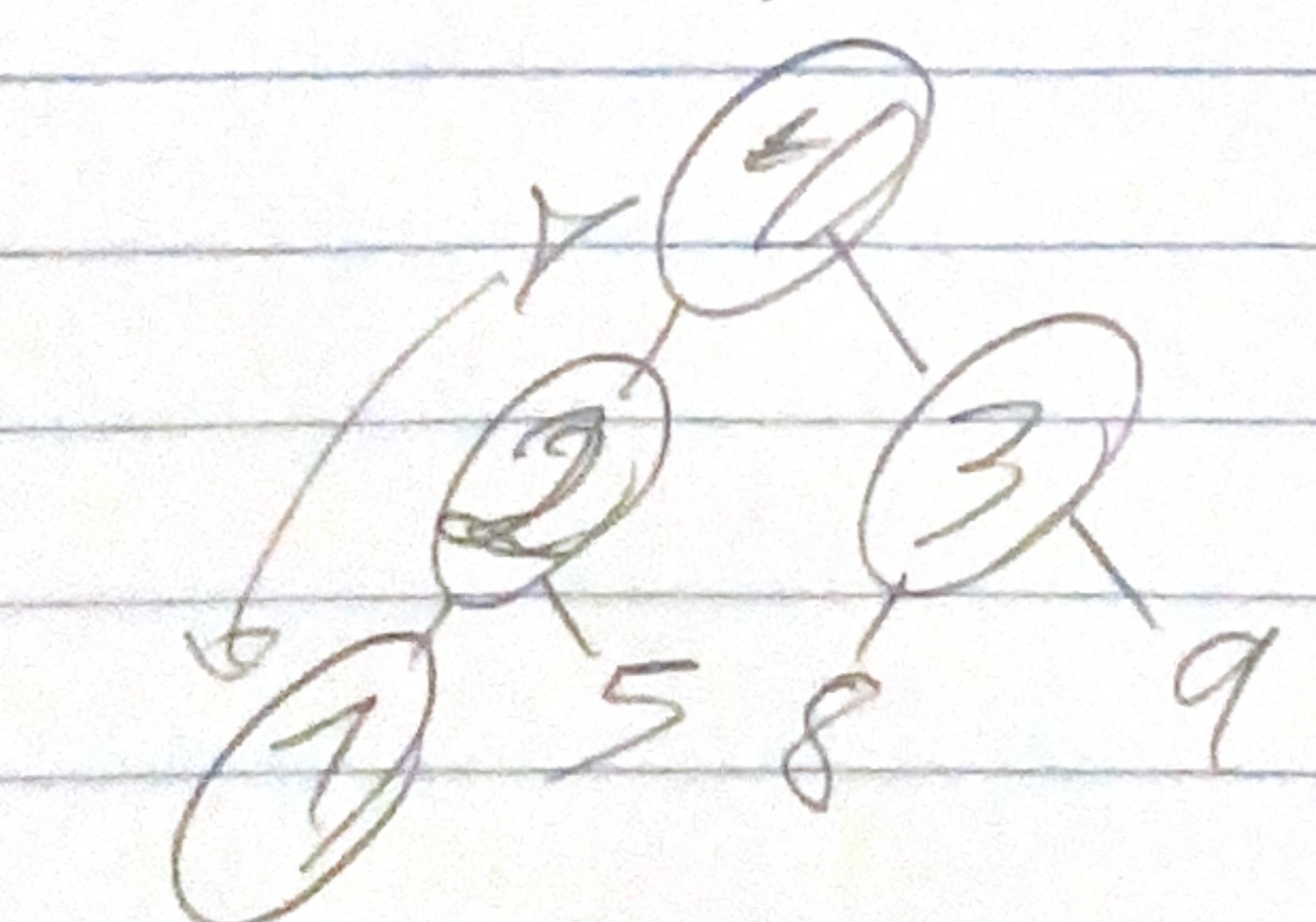


b



1, 4, 3, 2] 5, 8, 9  
ab

4 7 | 3 | 2 | 5, 8, 9  
ab ab

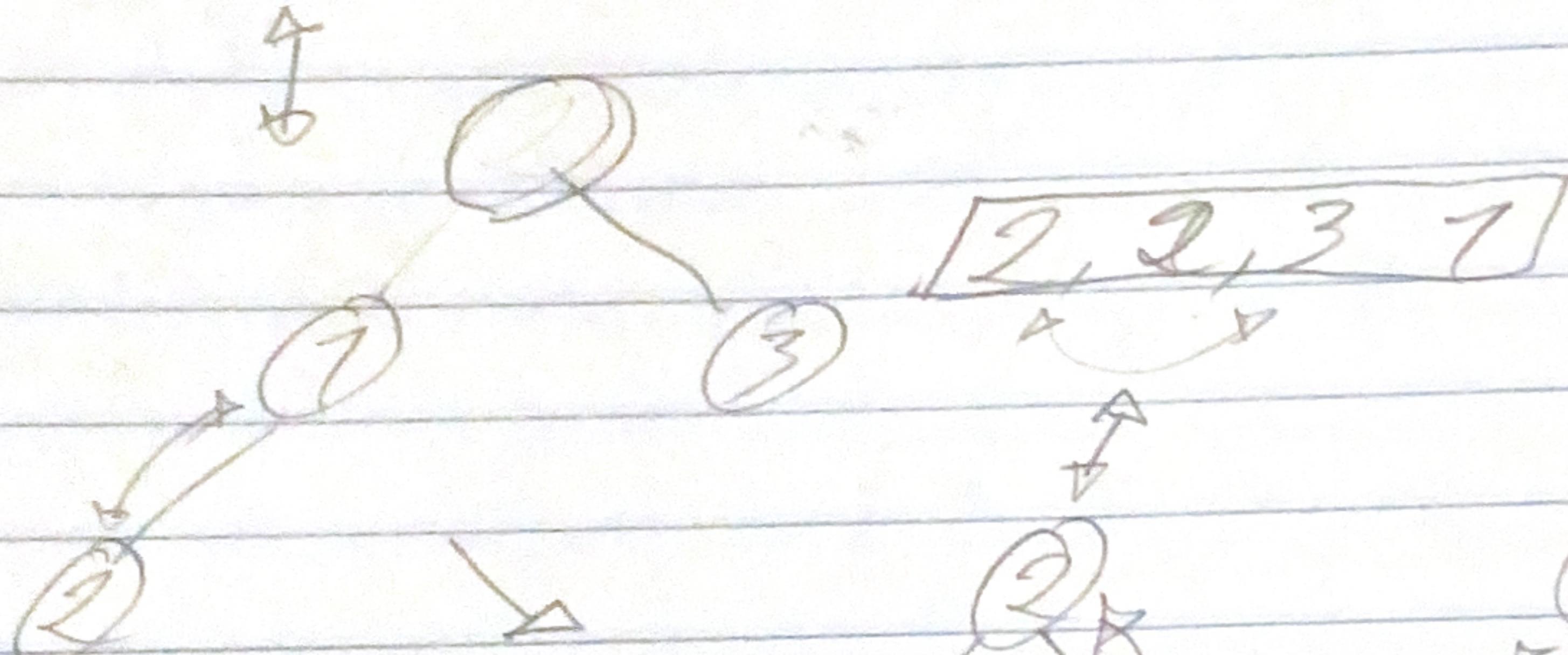


4, 2, 3 | 5, 8, 9

QUESTÃO 24

considerando o segundo vetor

[2, 1, 3, 2]



como podemos ver

os dois '2' formam

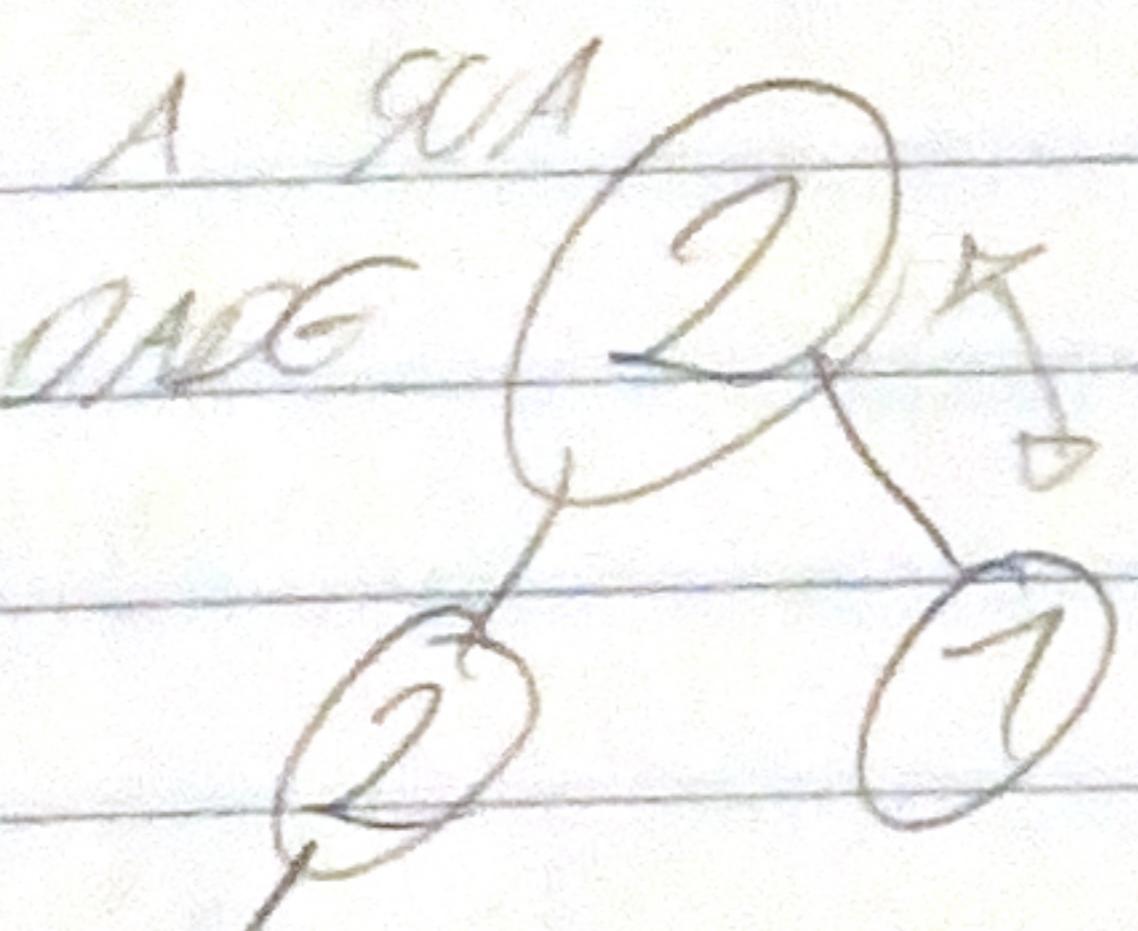
trocações dentro do

processo até novo ①

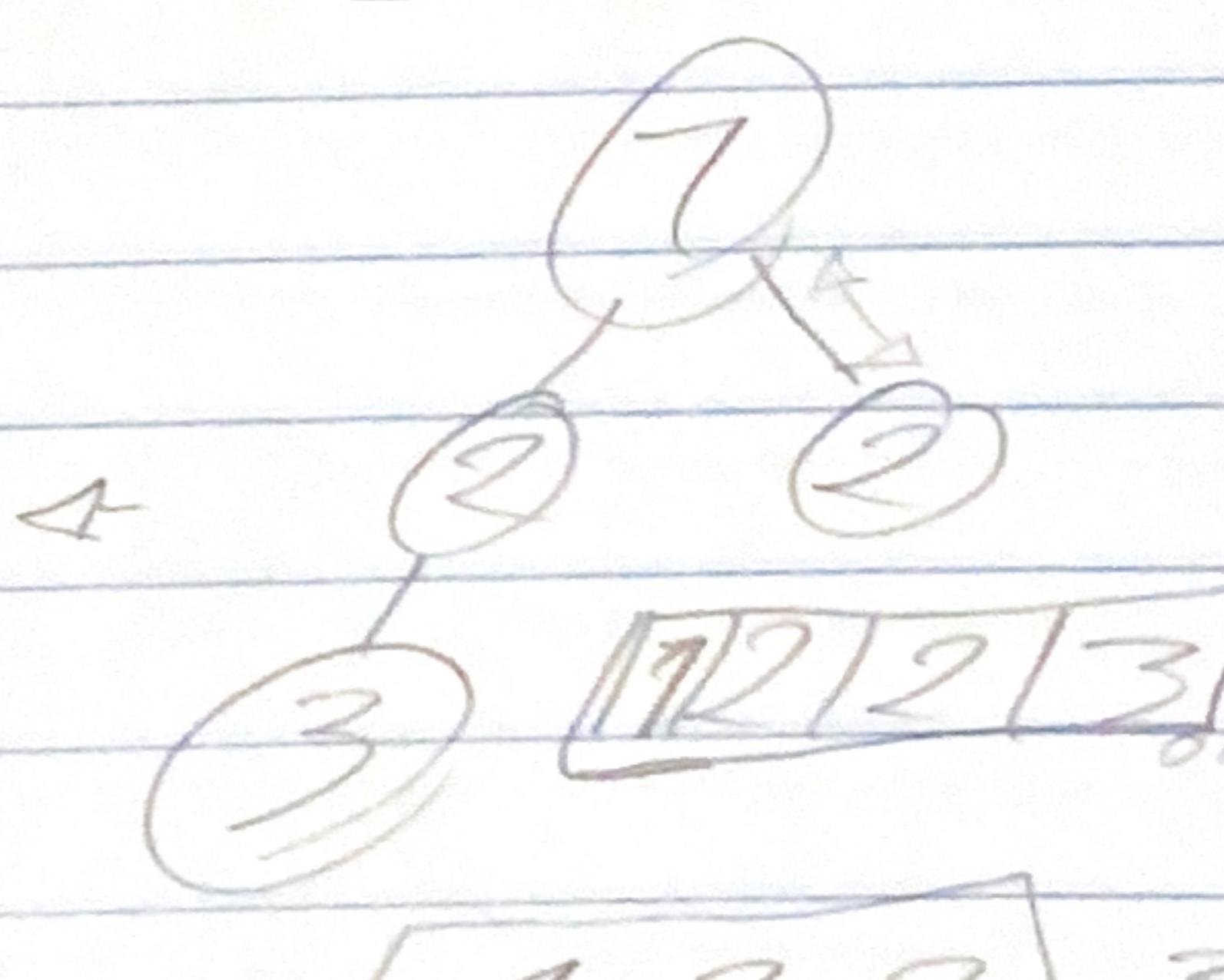
más de uma vez

provando a sua

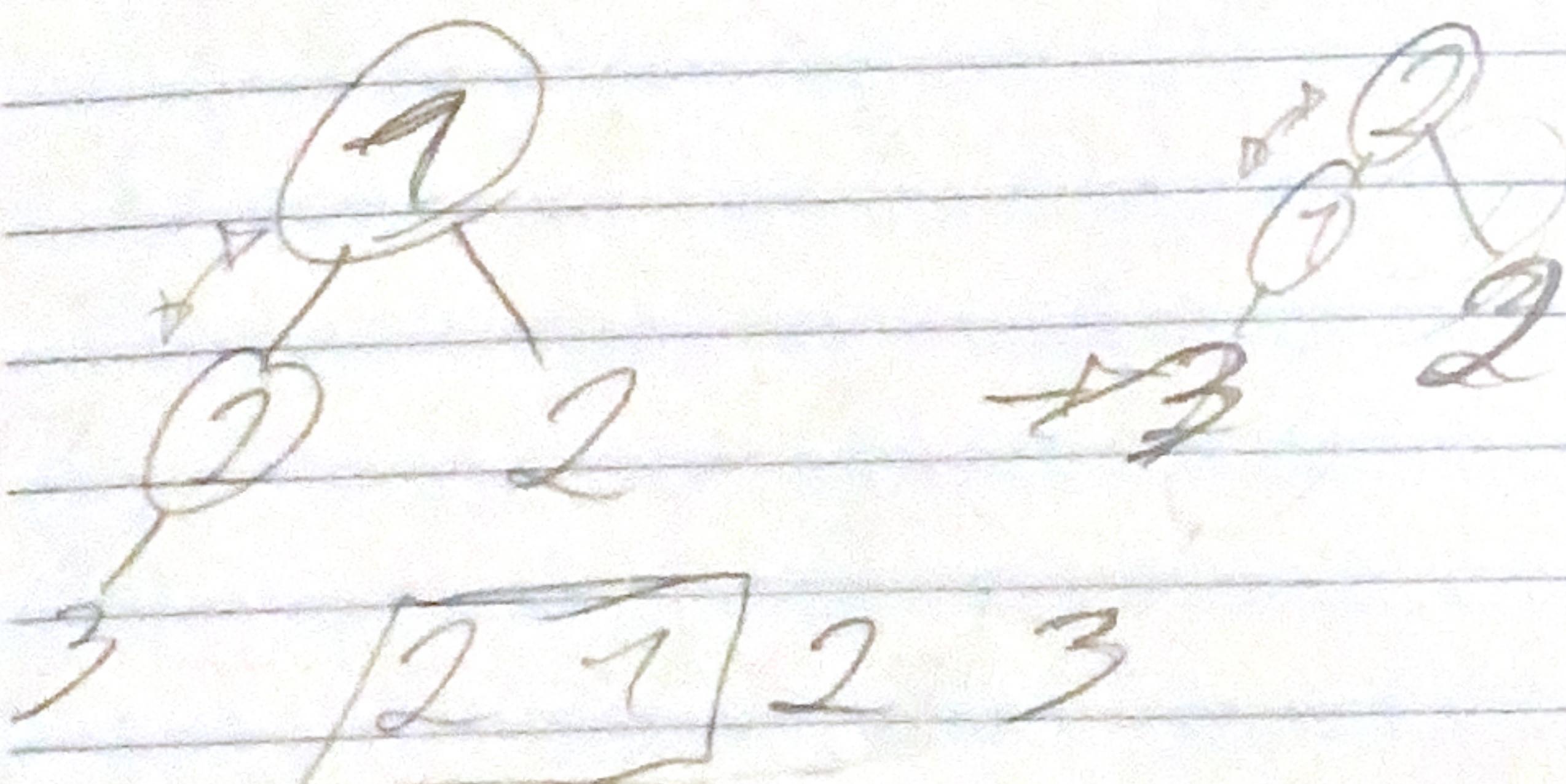
instabilidade



3 | 2 2 1 3



1 2 2 3 | 3



1 2 2 3 | 3 1 2 2 3

1 2 2 | 1 2 2 3