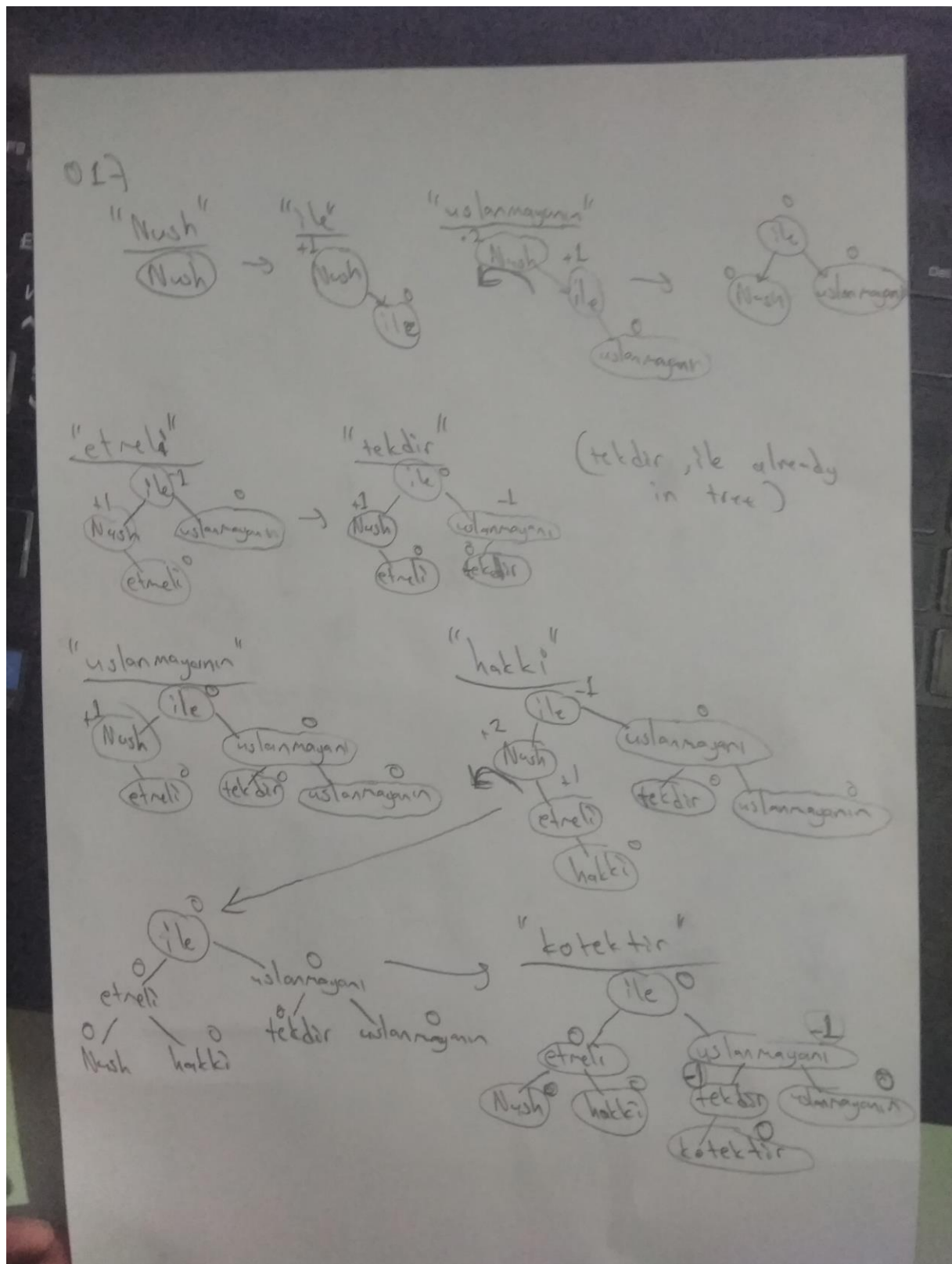
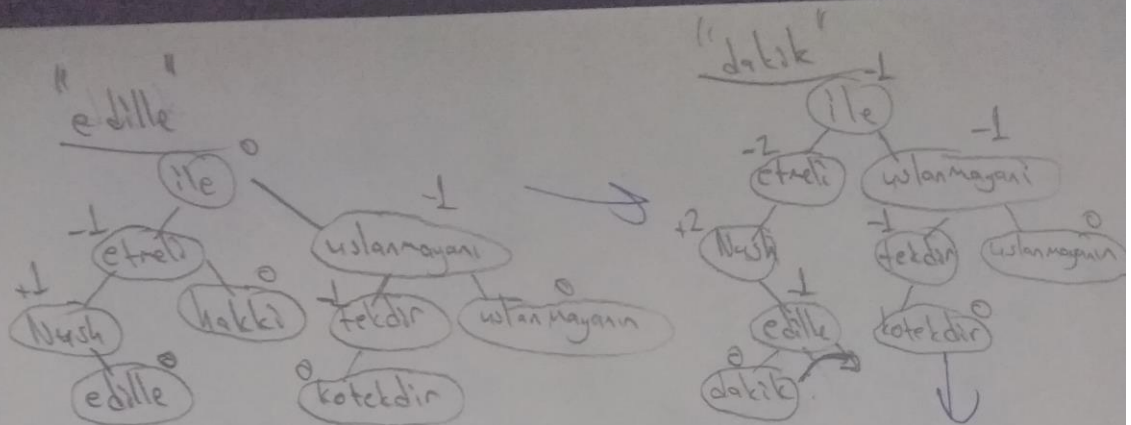
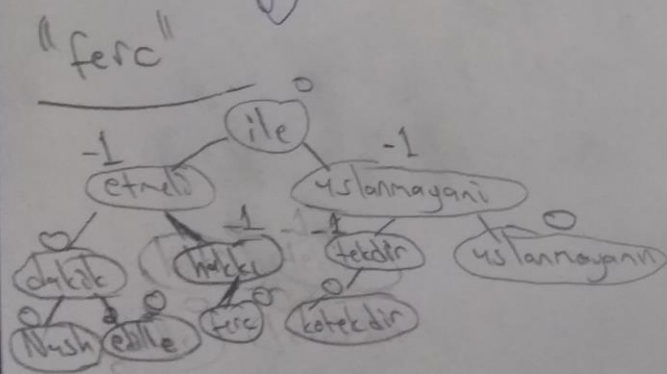
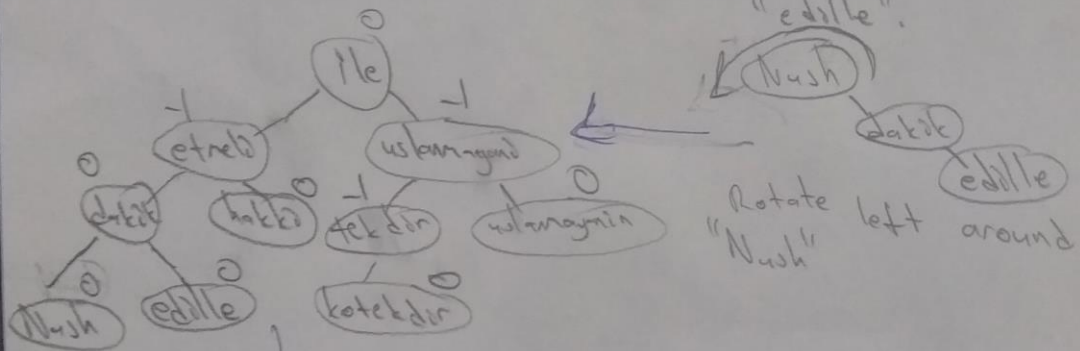


Q1-)

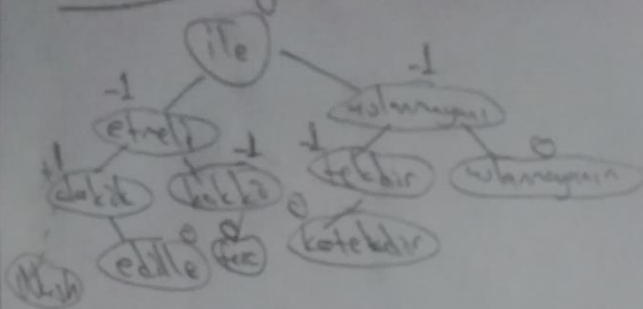




Rotate right around
"edille".

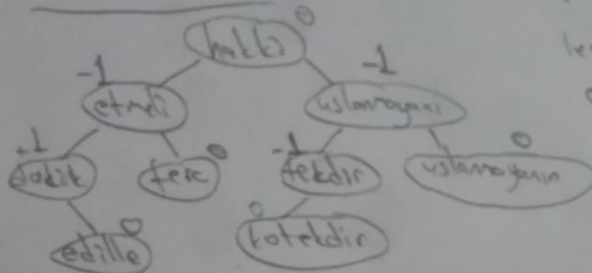


Delete "Nash"



"Nash" was just a leaf. Easy to remove.

Delete "ile"

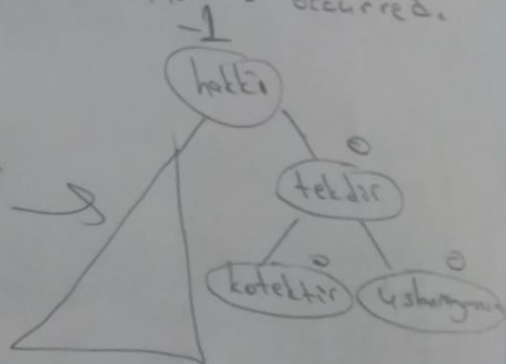
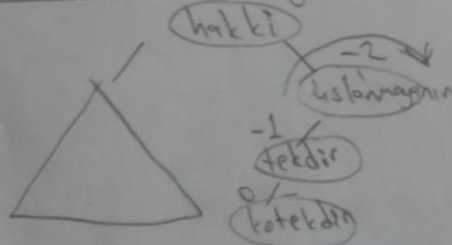


"We get the most right leaf at the left side of the root."

"Then replaced it with the root."

"No significant height difference occurred."

Delete "ustanmayani"



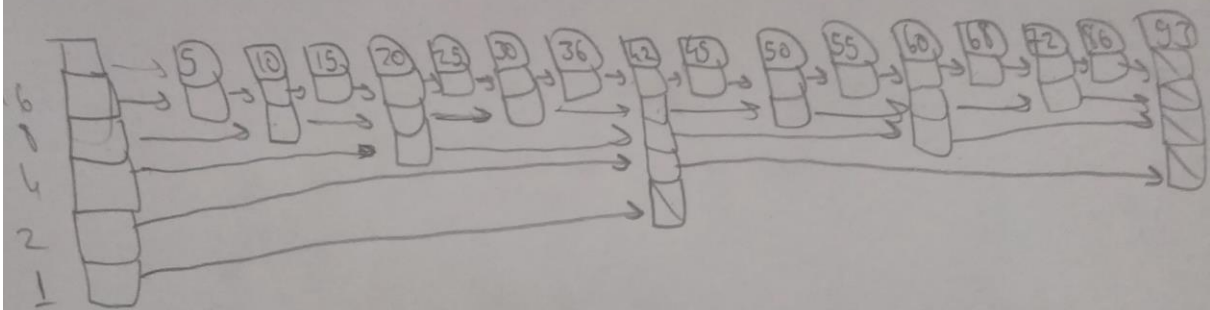
- "We get the most left leaf at the right side of the root."
- "There was only 1 leaf at the right and it had no left leafs."

- "There was a height difference of 2. So we applied right rotation to 'ustanmayani'"

Q2-) Skip-List

Q2-) ideal skip list should have $\log_2 n + 1$ levels.

$$\log_2 16 = 4 \quad 4+1 = 5 \text{ level}$$



□ means null, it points to nothing.

level 1 = (5, 10, 15, 20, 25, 30, 36, 42, 45, 50, 55, 60, 68, 72, 86)

level 2 = (10, 30, 50, 72)

level 3 = (20, 60)

level 4 = (42)

level 5 = (42)