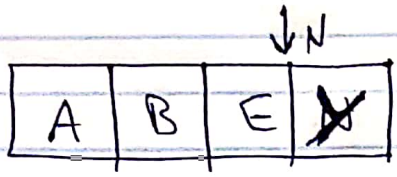
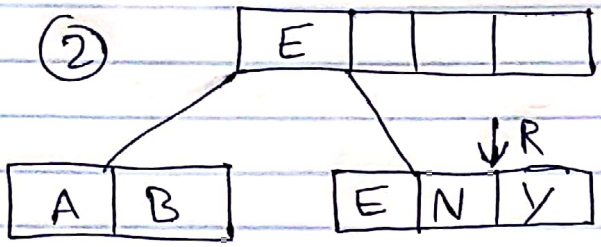
① karakterleri: B E Y A N E R R A H İ M

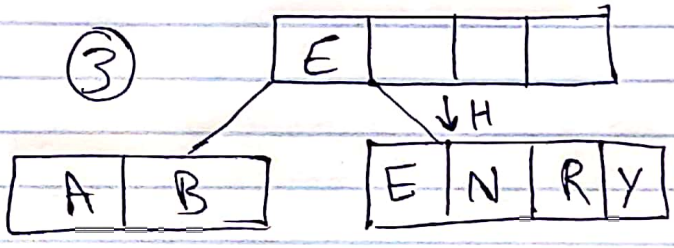
t=2 ①



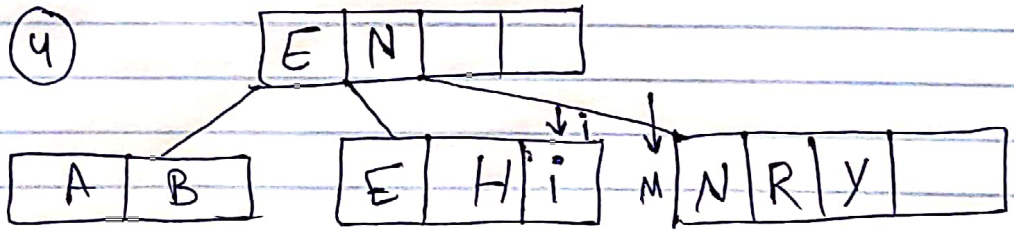
②



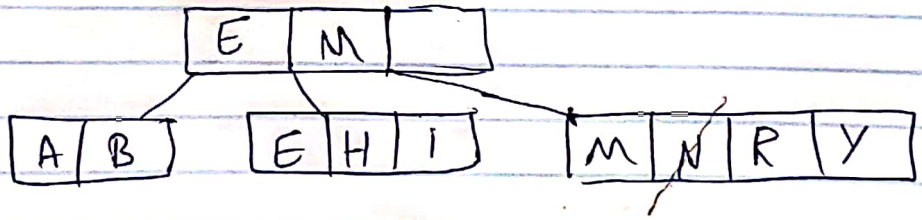
③



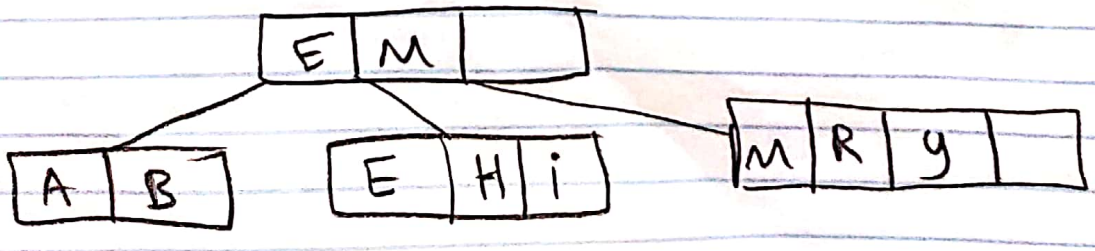
④



⑤



N harfi sileceğim:



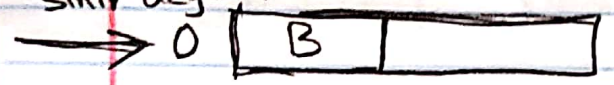
(2)

Karakter : B E Y A N R H İ M

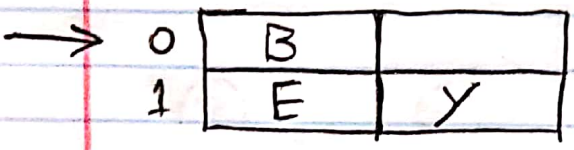
B : 1000 0 1 0
E : 0100 0 1 0 1
Y : 0 1111 0 0 1
A : 0100 00 0 1
N : 0100 1 1 1 0
R : 0 1 0 1 00 1 0
H : 0 1 00 1 000
İ : 0100 1 00 1
M : 0 1 00 1 1 0 1

yükleme factory = 80 %
her hücre iki kayıt

sınır değeri

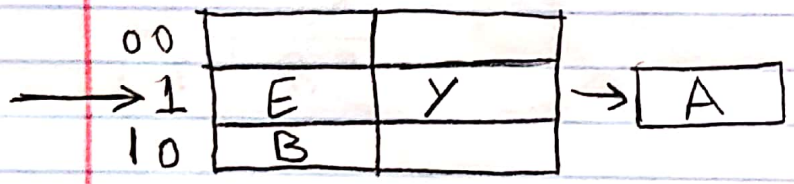


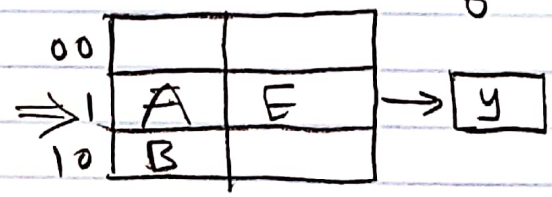
$\frac{1}{2} = 50\%$

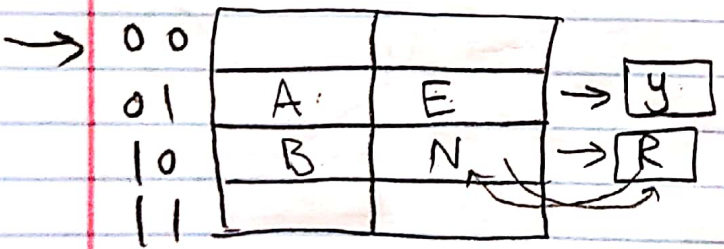


$\frac{3}{4} = 75\%$

$\frac{4}{6} = 0,6$

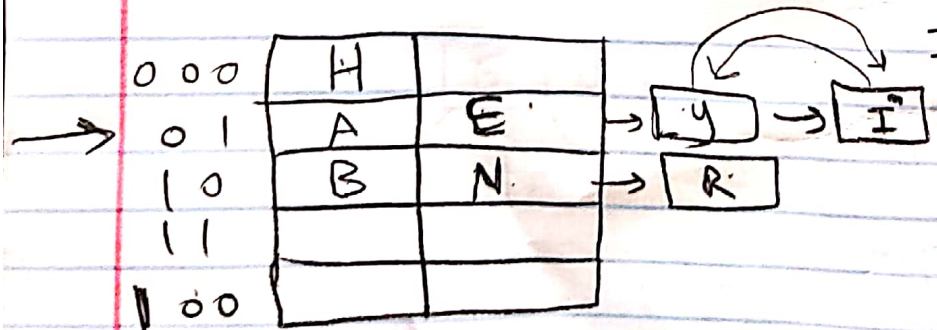




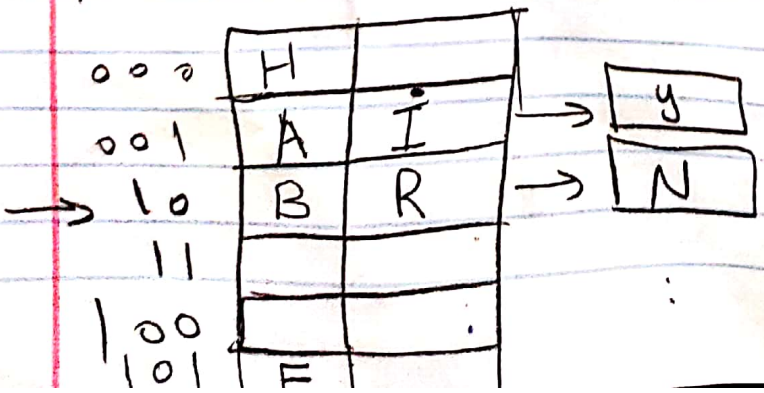


$\frac{6}{8} = 0,75\%$

İ sonra y sıralamak



$\frac{8}{10} = 0,8$

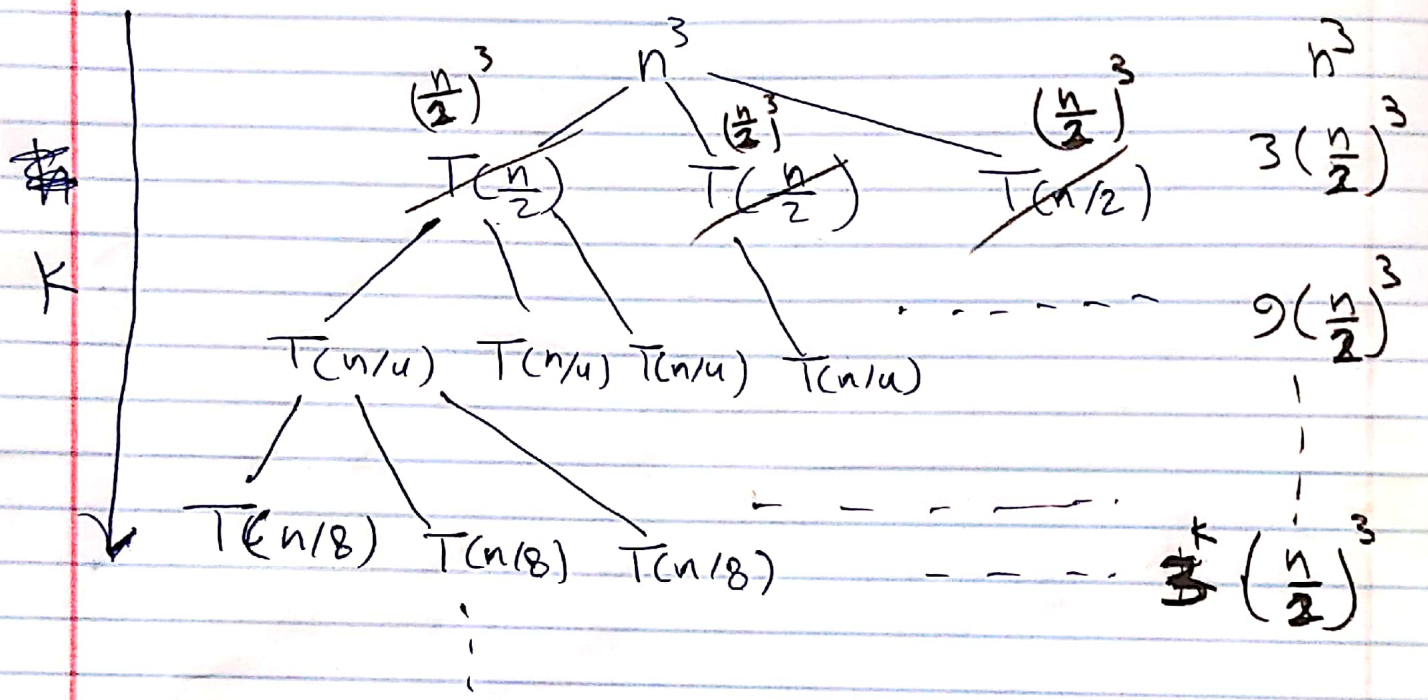


(3)

(a) üç noktada $\boxed{a=3}$ $3T(n/2)$

(b) bir çağırma için $T(n/2)$ olacak

(c)



$T(n/2^k)$ $O(1)$ $O(1)$ ...

$n/2^k = 1 \Rightarrow k = h = \log_2 n$

* $T(n/2) = 3T(\frac{n}{4}) + (\frac{n}{2})^3$

* $T(n/4) = 3T(\frac{n}{8}) + (\frac{n}{4})^3$

$$T(n) = 3^k T(n/2^k) + \left(\sum_{i=0}^{k-1} \frac{1}{a^i}\right) n^3$$

$$\sum_{i=0}^{k} a^i = \frac{1-a^n}{1-a}$$

$\Rightarrow O(n^3)$

4