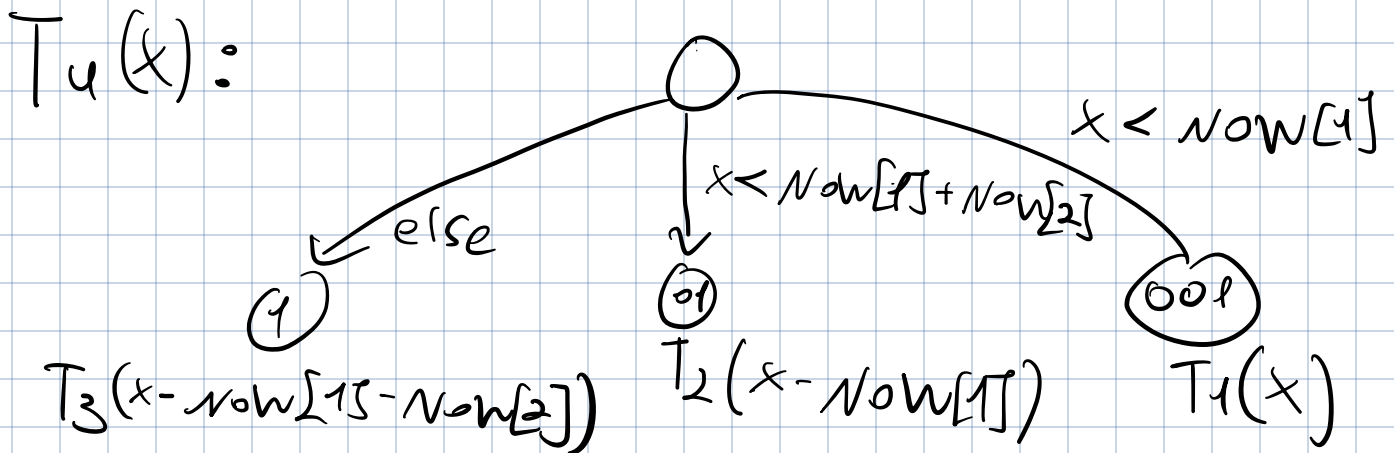
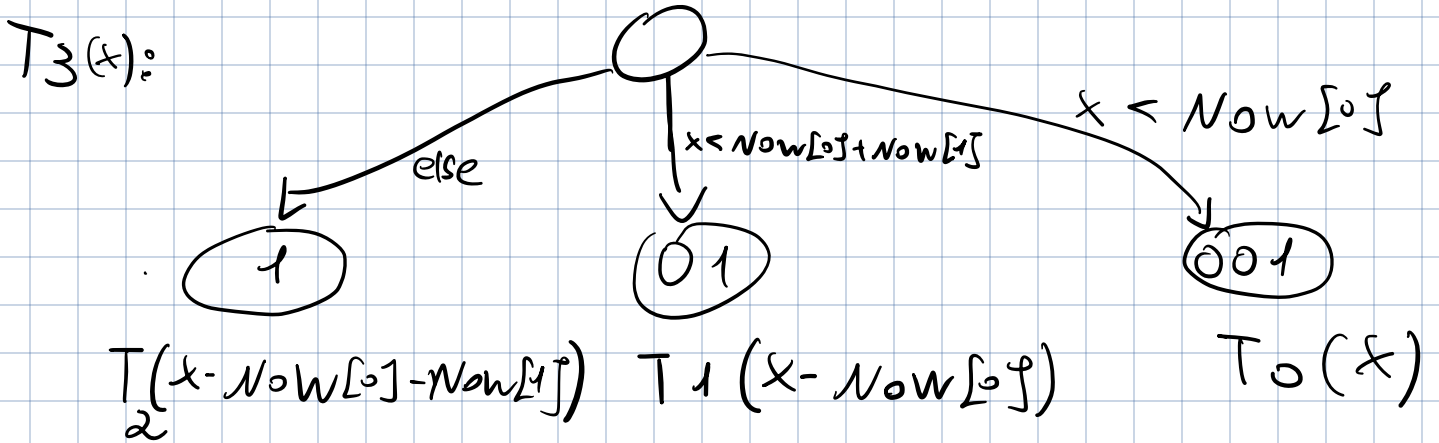
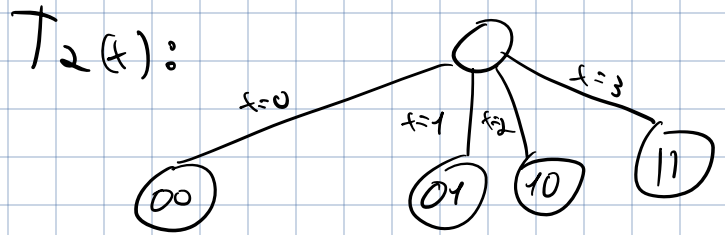
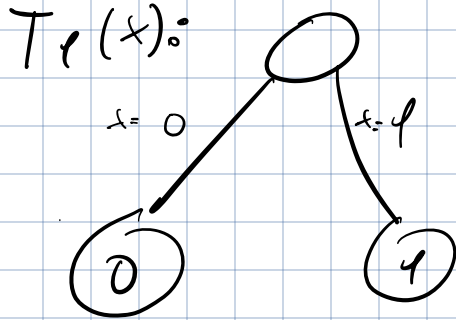


$now = [1, 2, 4, 7, 13, 24, 44, 81, 149, 274]$

$\underbrace{\quad}_{\text{number of words}}$

$now[i] = now[i-1] + now[i-2] + now[i-3]$

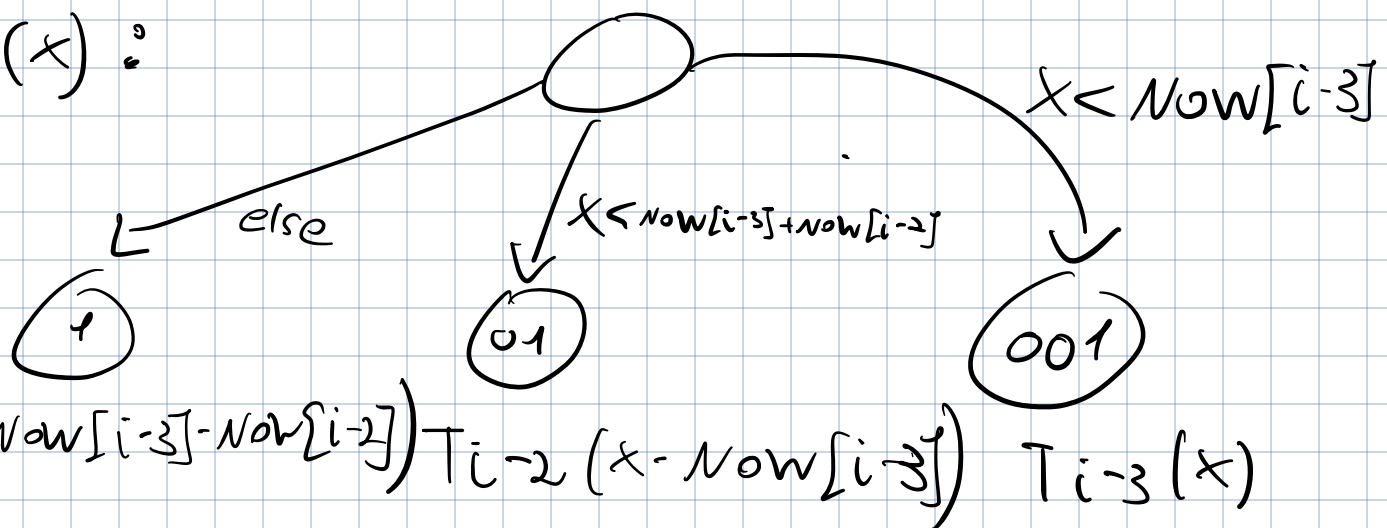
$T_0(x) = \bigcirc$



\vdots

1
2
3

$T_i(x) :$



אם x זיכר n :

ההער x יהיה צורך סדרת n זיכר
 * ההערה של x יהיה צורך n זיכר

$\text{Encode}(x, n) :$

if $(n == 0)$
 return ""

elseif $(n == 1)$ {

if $(x == 0)$
 return "0"

if $(x == 1)$
 return "1"

else if ($n == 2$) {

if ($x == 0$)

return "00"

if ($x == 1$)

return "01"

if ($x == 2$)

return "10"

if ($x == 3$)

return "11"

}

else {

if ($x < \text{Now}[n-3]$)

return "00" + Encode($x, n-3$)

else if ($x < \text{Now}[n-3] + \text{Now}[n-2]$)

return "01" + Encode($x - \text{Now}[n-3], n-2$)

else

return "1" + Encode($x - \text{Now}[n-3] - \text{Now}[n-2], n-1$)