3.-
$$T(n) = 1 + \hat{\Sigma}_{1} + 1 + M_{av} \left[\frac{1}{1} + \hat{\Sigma}_{1}^{2} \right] + (i, \hat{\Sigma}_{2}^{2}) + (i, \hat{\Sigma}_{2}^{2}) = \frac{7(n) = 3 \lambda^{2} h + 3 \lambda 7(\frac{n}{2}) h = 2^{\frac{1}{2}}}{7(n) = 3 \lambda^{2} h + 3 \lambda 7(\frac{n}{2}) h = 2^{\frac{1}{2}}}$$

$$= 1 + \hat{\Sigma}_{1} + 1 + M_{av} \left[\frac{1}{1} + \hat{\Sigma}_{1}^{2} (\hat{\Sigma}_{1}^{2}) + \frac{1}{1} +$$

5. June minima Prima (n: micra) der prima: brothern

Derde i+1 tarten Hour:

sin #i =: 0 derolus transfalse

f Rode

devolue fotoc Irue

f fure.

6- func perfecte (n: entera) der var: boalean
Resde i + 0 hasta n Hover:

si n\l == 0 entoncer cont += i of ri

flade

si n== contodor

devolver n== contodor

flure.

T(n) = \(\frac{\xi}{\xi}\) + 1 = 2 n + 1 = 7 O(n)

7- func & 7 (n entero) der mina contra, contra enteros
dende 1+1 torta n

si Prima(n) ordaner contram++ fr

si Perfeda(n) entores contram++ fr

dende

dende

tet devolver centrum contra

 $t(n) = \sum_{i=0}^{n} 2 \cdot (2n+1) + 1 = 4n^2 + n + 1 = 7 \cdot O(n^2)$

8: Pyton:

Lef reversa(n):

if (n//10==0):

relwin nd

efse:

aux=n%10

aux=10. Aux

Aux += reverse (n//10)

reteurn aux

T(n)=1+Mor [1,3+T(n-1)]=
= Tcn-1)+4

t(n)=+*

\(\text{Y} \)
\(\t

9- dej sunderen(n) j(n=0):return 0 efse: return'nsunderen(n-1) f(n) = 1 + f(ax(1, 1 + t(n-1))) = $= f(n-1) + 2 + t(n) = x^n$ $x^n = x^{n-1} + 2$ $x^{n-1}(x-1) = 2$

homogenear pointedor $\chi^{*}(x-1)=0$ $\chi^{*}(x-1)=1 \Rightarrow \chi^{*}(x-1)=1 \Rightarrow \chi^{*}(x-1)=1$