Learande martins da Dailoa bu 3032346 1) a - [0(1) (T(n)=2+(n/2)+0(n) f(L)=L 7(n)=21((n/2)+24)+~

1 1		
8888888		The day
	The state of the s	
Fernanda martine da Daila bus	3032345	TIV
Listex 6		(1)9/
11 (11)-1	71 14	3=(0)7)
$1)b - \begin{cases} f(1) = 1 \\ f(n) = 2f(n/2) + 2 \end{cases}$	(m) 31 (SIM)	
(1(n)-21(n/2)12		
1. T(n)=21(n/2)+2		2
2. parso: n/2	The state of the s	
3. T(n/2)= 2T (n/4)+2	1-1000	11/2/10
T(n/4)=2T(n/8)+2	19/10/10	08.3409
4. f(n)=2(2(n/4)+2)+2		V 18 0 (18 7)
· 22((n/4)+22)+2		
(2°(n/4)+23-2)		olegon c
T(n)= 2°(2(n/8)+2)+2°	+2	
· 23((n/8)+22)+22+2		7=(7)+
$(2^{2}(n/8)+2^{4}-2)$	(B)+(A)+(B)	(1(n)= 21(1m
5. 2"(n/2i)+2i+1-2	ON I LA I CA	
6. $f(n/2^i) = f(t)$		
n/2" = 1		25 7(01) 6 1
2i= n	Table 1 September 1	ala :/ala-e
i= lgn 4. 2 lgn(n/2 lgn) + 2 lgn+1-2	JANES AND	VV-(a) The Man
7. 28 (n/2)+20 -2		The last of
2 gn +(1) + 2 gn+1-2	Anathor Carlotte	
n+2m-2	MATERIA STATE	De la company de
1(n) = 3n - 2	ASSES 2012	
8. $T(n) \in O(n)$	0 (/)	Missel H.C.
9. t(n) = 3n - 2	9. f(1) = 3n-2=1	
2(3n-2)+2	1(1)= 3.1-2=1	
2(3n/2-2)+2	1(1) = 3-2=1	
8.3n/2-2.2+2	1(1)= 1 + coro hase a	ovito,
3n-4+2		
3n-2 + caso indutible coverte,		
andaia) **		

Gernanda Martin de Dailo bu 3032345 1) b- (+(L)=L (T(n)=2T(n-1)+1 1. f(n)=21(n-1)+1 · 22 (n-2)+2+1 · 22 (n-2)+22-1 T(n)=22(2(n-3)+1)+2+1 · 23 (n-3)+22+2+1 · 23(n-3)+23-1 5. 2i(n-i)+2i-1 6. f(n-i)= T(1) 8.9(n) E 0 (2m) 9. +(2")= +(1) 2"-1 = 1 - Caro pre covito T(2")= T(n) . 2(2"-1)+1 · 2n- 1 - r caro indutivo covieta

8888888 German da Martins da Silva bu 3032345 1)c-)T(1)=1 T(n)=2+(n/2)+c.n 1/8 n/8 n/8 2/8 lyn= lg2n Jandaia

Lestex 6	Section of men
1) c - $\{T(n) = \Theta(L) \text{ se } m = 1, 2 + 3$ $\{T(n) = 3T(n/4) + C.n^2 \text{ se } n \neq L$	2) b. 17(1)=2
May = Ma Mar M	B all market
0=3°=1 cn2	Cm ²
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3/16 002
$2 = 3^2 = 9 \left(\left(\frac{m}{16} \right)^2 \right)^2 \left(\left(\frac$	2) (3/16) cn2
$i=3^i=n$ $T(1)$ $T(1)$	(3/16) en2
	loan
Slock S	64

Complexidade = O(n2)