

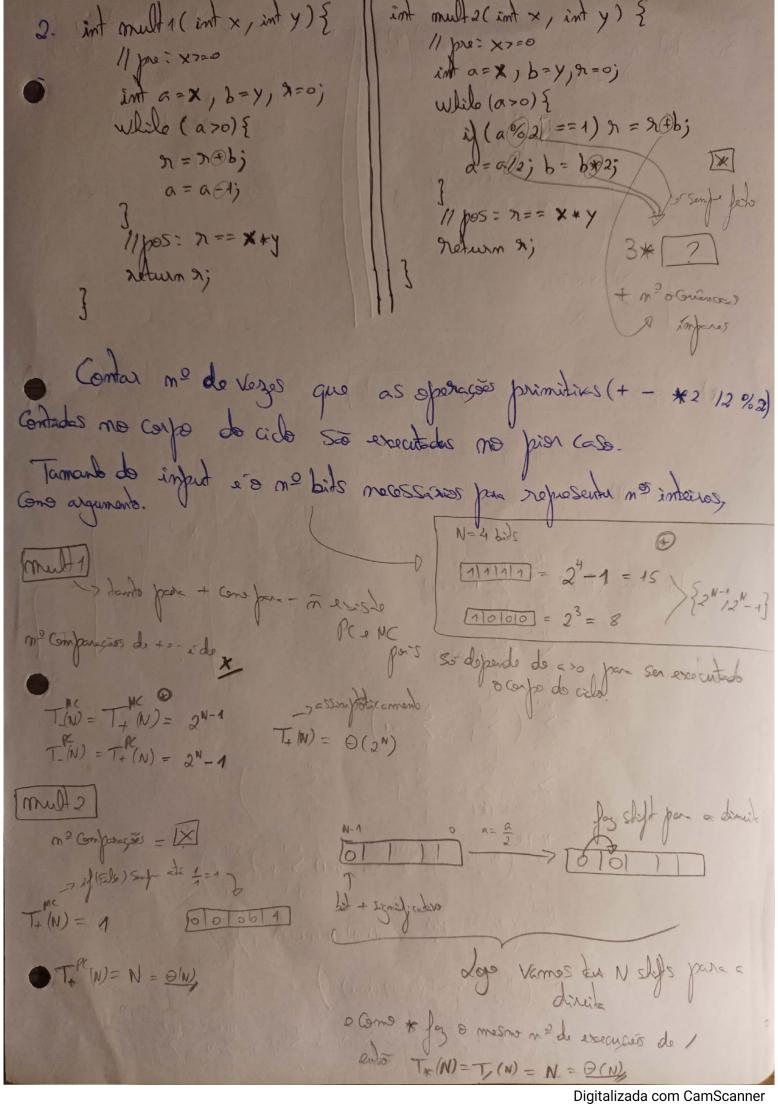
(if semple False) (if The)

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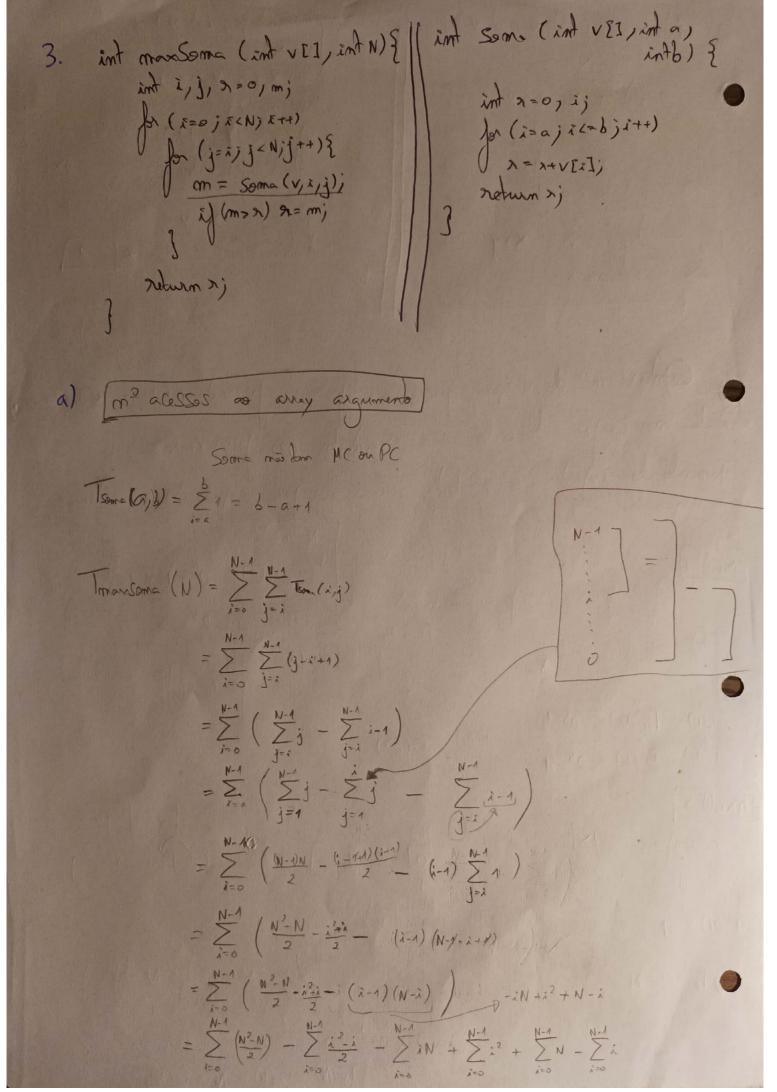
B) Word iSort (int V[], int N) { i, i fori Jor (i=1; i<N; i++)

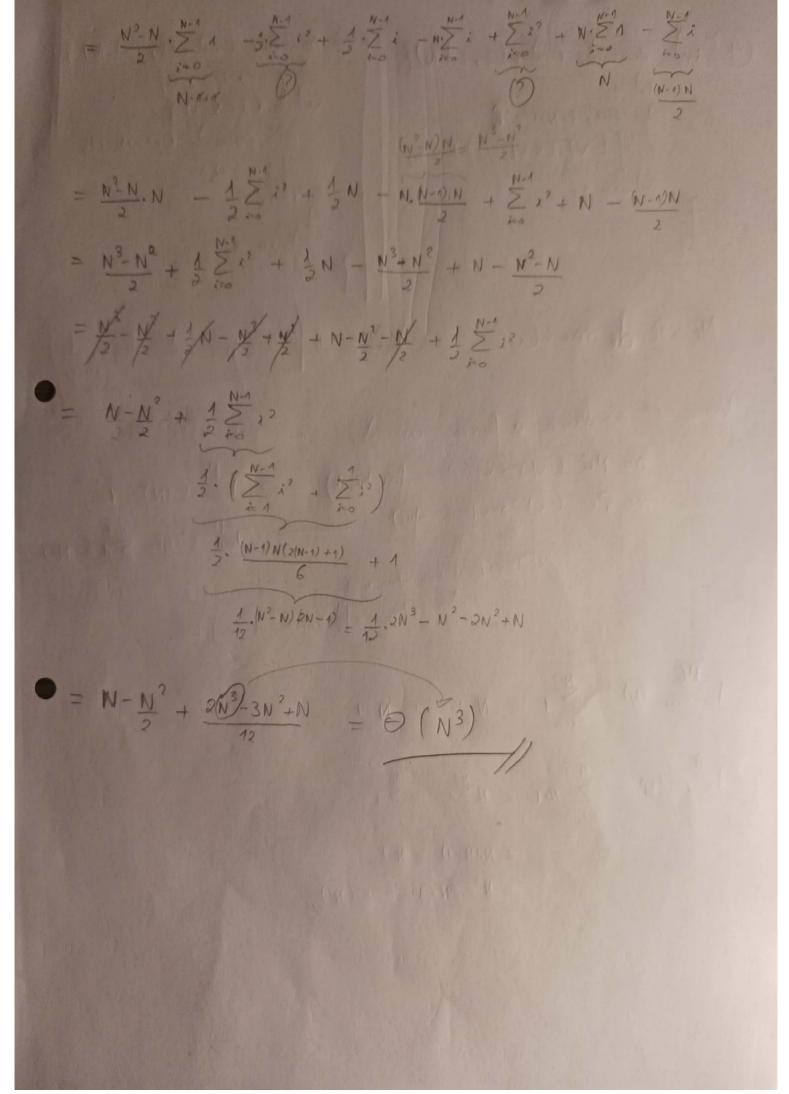
Jor (j=i; j=0 88 V[j-1](5 V[j]; j--)

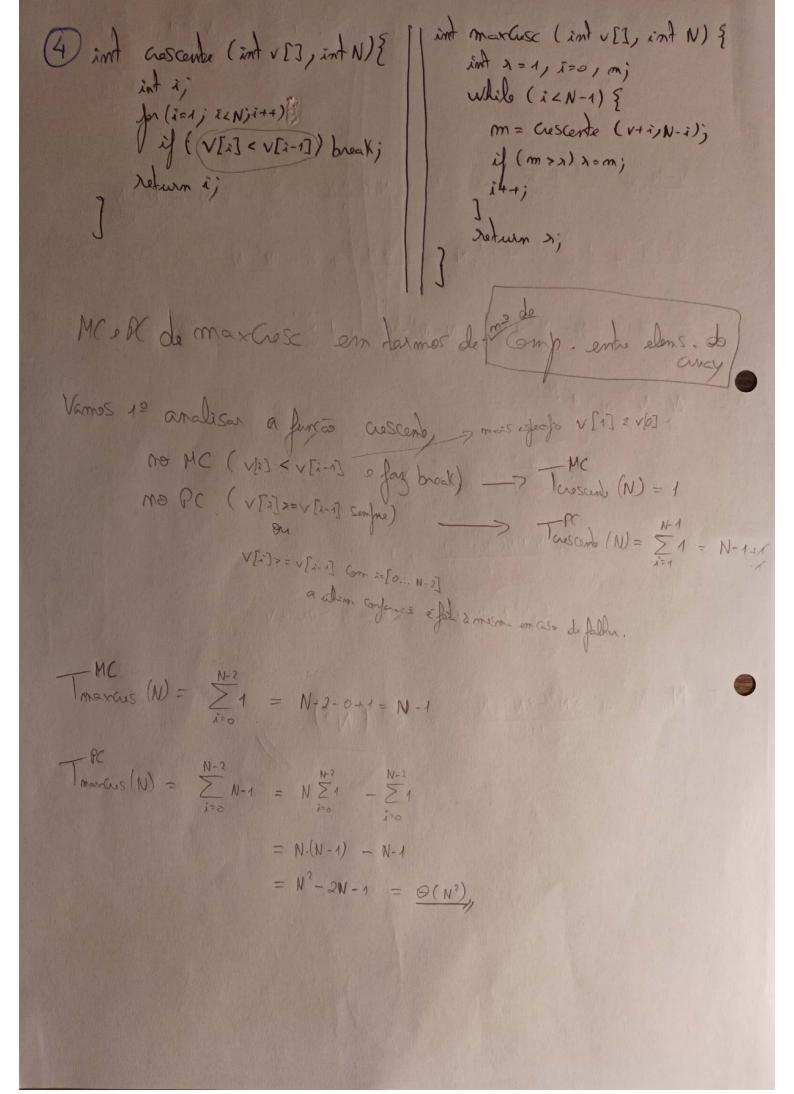
Swap (v,j,j-1); > ages dem MC ePC pois estes dentes do for , logo: T=NC(N) = \(\sum_{1} = N-1 - x+x = \text{O(N)} \) $T_{p}^{pc}(N) = \sum_{i=1}^{N-1} \sum_{j=1}^{i} 1 = \sum_{i=1}^{N-1} \frac{1}{2} \cdot N^{-1} = \frac{(N-1)N}{2} = \Theta(N^2)$ Swap tem MC e PC também: grado v[j-1]e=v[j] grand v[j-1]>v[j] Tswap (N) = 0 = \(\text{O}(1) \), $T_{Swap}(N) = \sum_{i=1}^{N-1} \sum_{j=1}^{i} = (N-1)N = \Theta(N^2)$

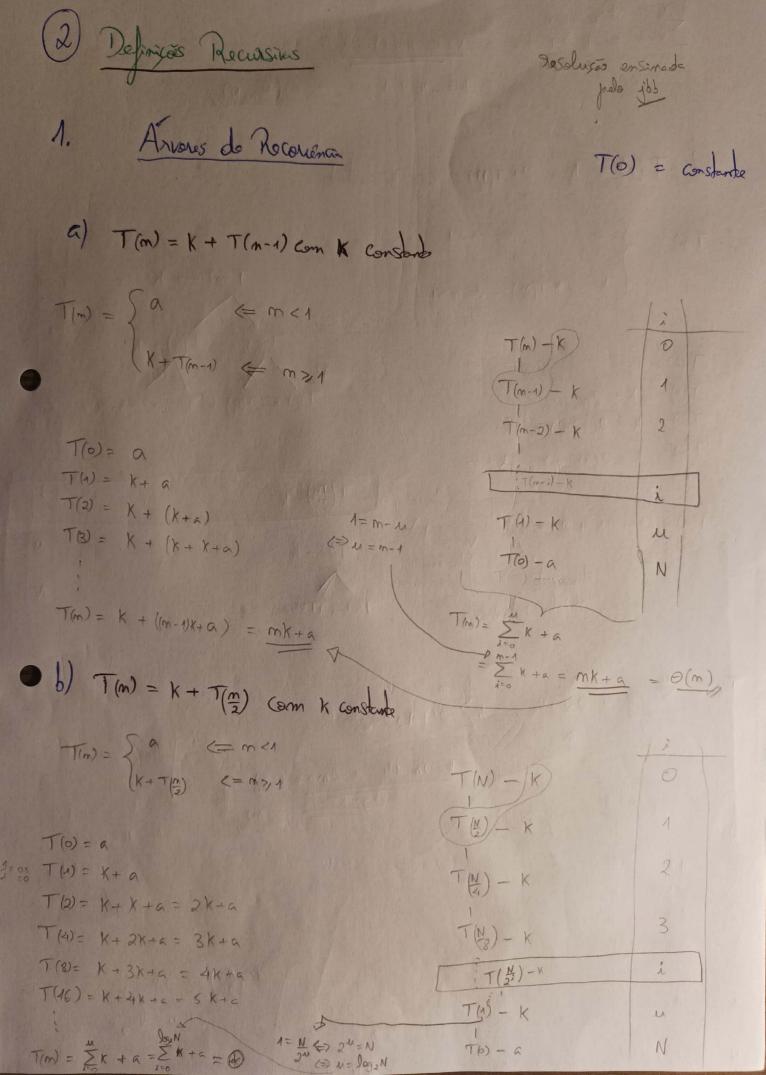


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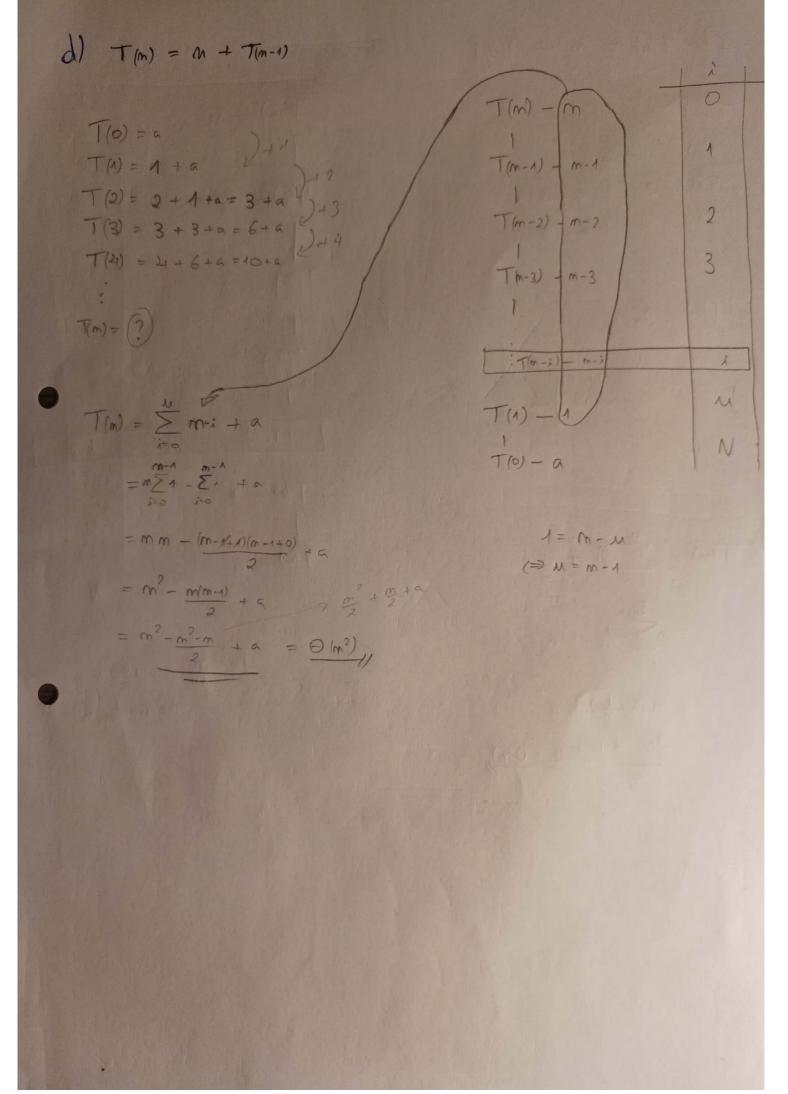


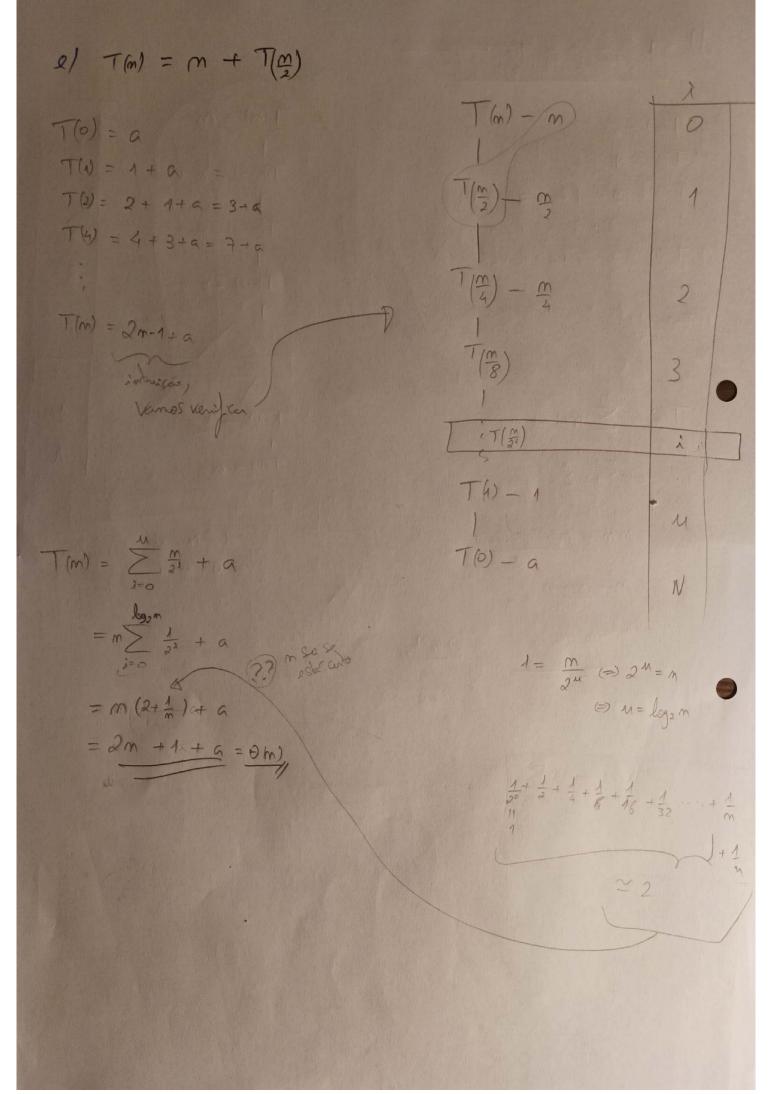


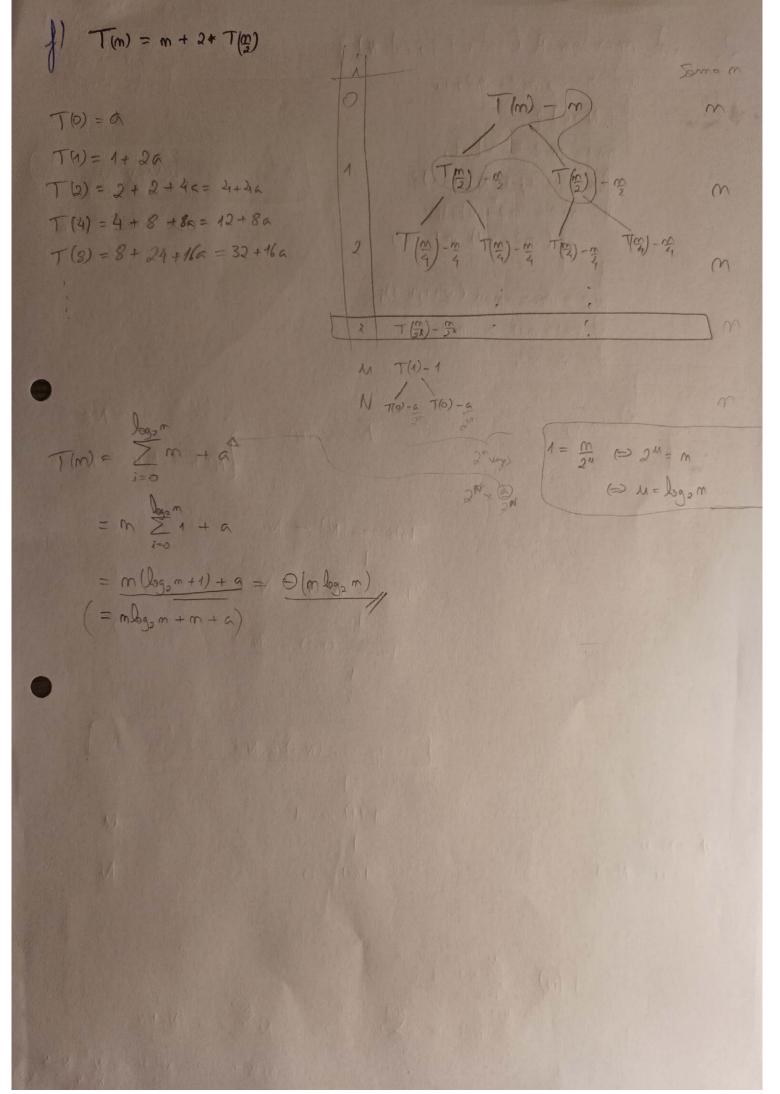
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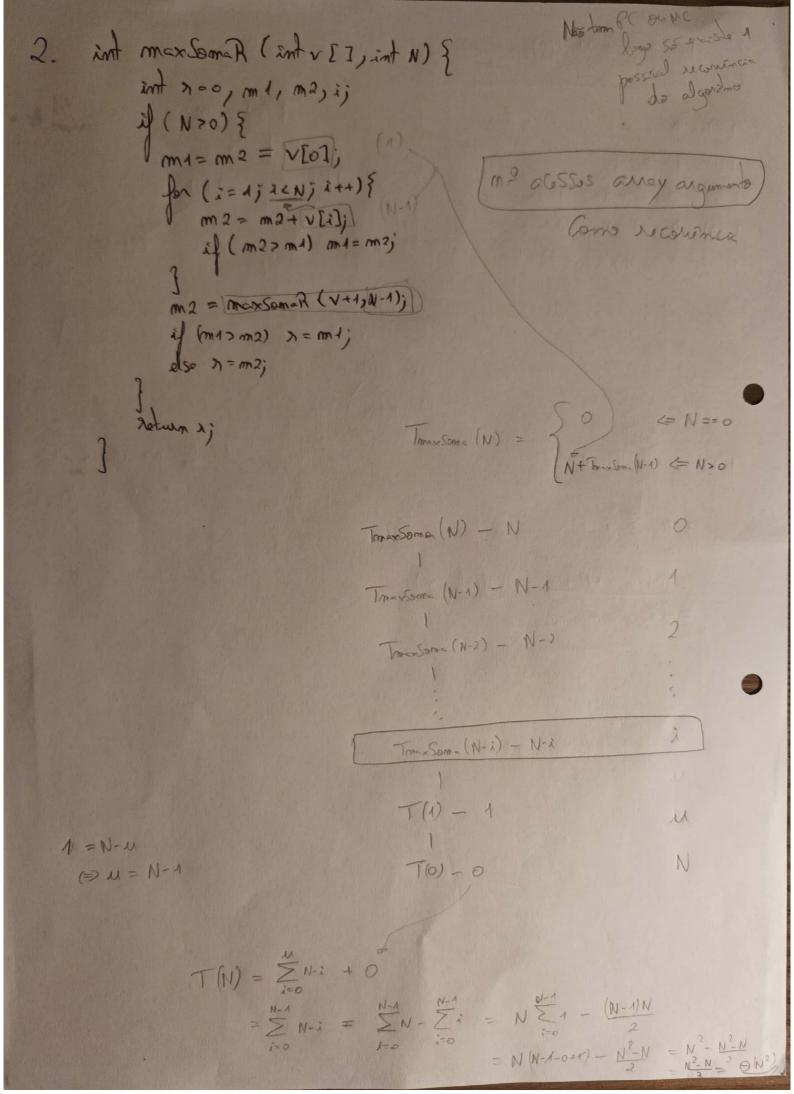
$$\sum_{k=0}^{k+1} = k \sum_{k=0}^{k+1} + \alpha = \frac{k(\frac{k}{2}, n+1) + \alpha}{k(\frac{k}{2}, n+1) + \alpha} = \frac{k(\frac{k}{2}, n+1) + \alpha}{k(\frac{$$

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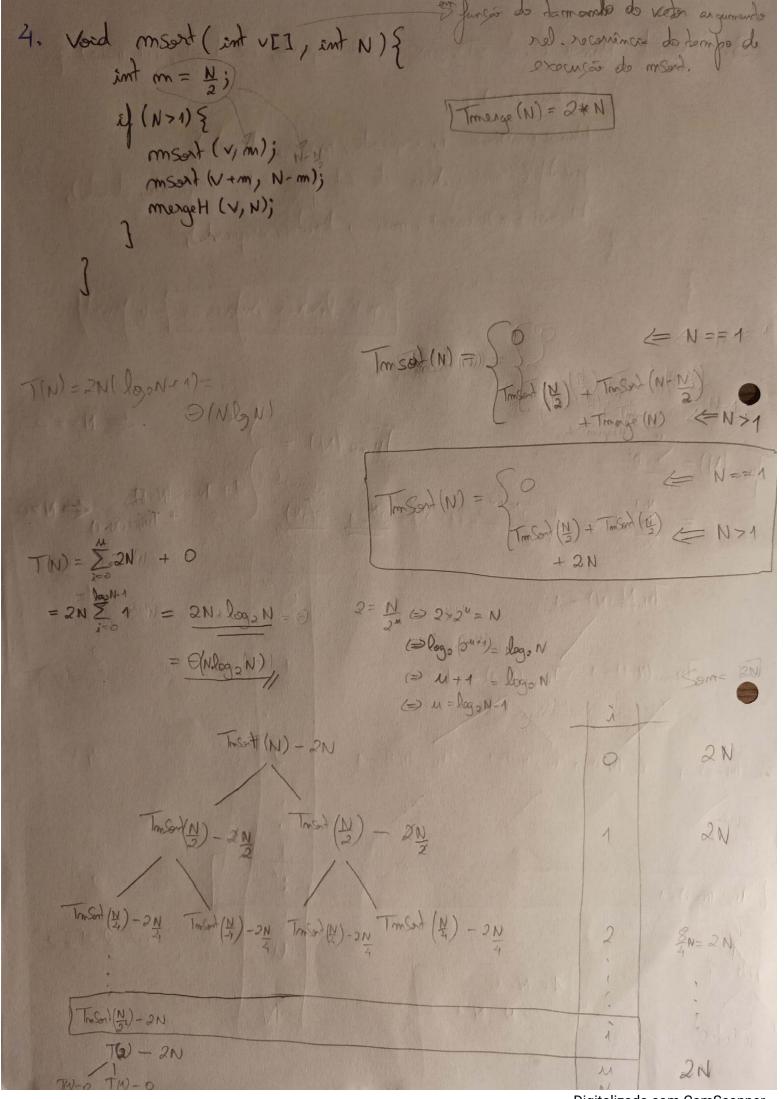




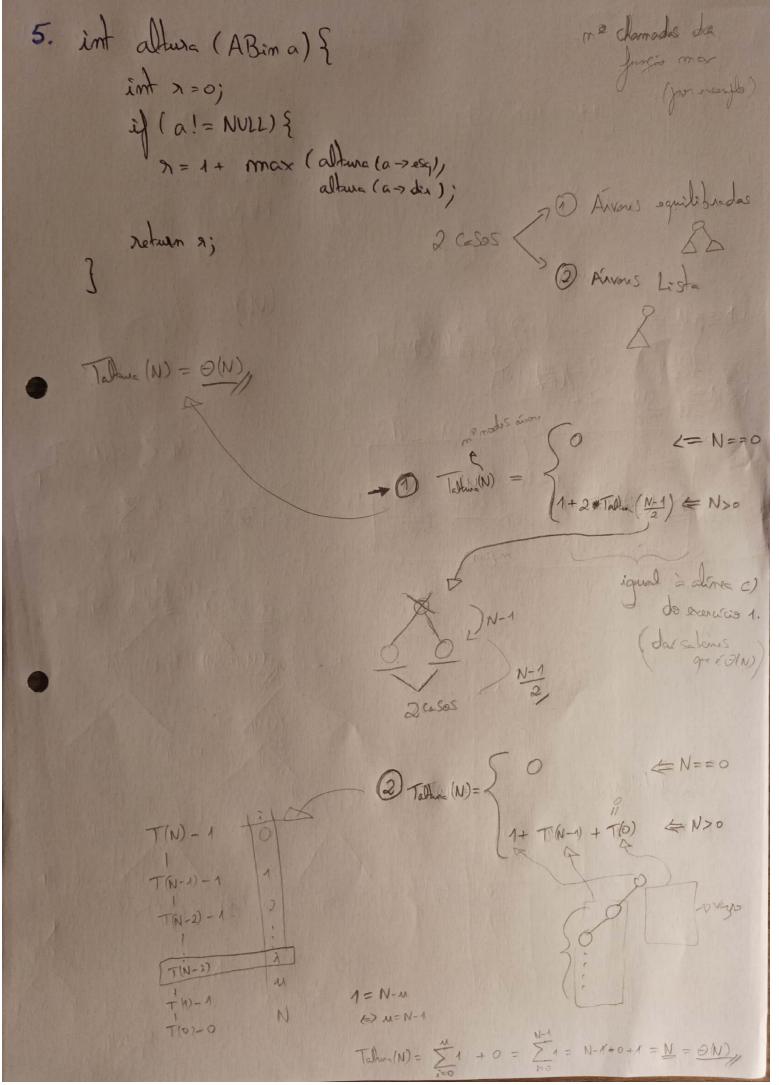


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3. Void Hamer (int mDisces, int esquede, int direite, int meis) {
i) (mDscos >0) {
Hamer (mDisces-1, esquenda, meis, déreita); print f ("mover disco de %d para %d, esqueda, direita); Hamer (mDisces-1, meis, direita, es 1)
print f ("mover disco de %d para %d, esquerda, direila);
Hamei (miscos-1, meis, direite, esquerde);
me linkes impresses - a printy
- Land Jam Jam Jam da o
Thans (N) = 50 ==0
Thousi (N) = \(\sum_{i=0}^{2} \) + \(\sum_{i=0}^{2} \) \\ \tag{\tau_{orkonorcial}} \) \(1 + \tau_{i} \)
$T_{\text{Hansi}}(N) = \sum_{i=0}^{N-1} 2^{i} + 0$ $T_{\text{Hansi}}(N-1) = \sum_{i=0}^{N-1} 2^{i} + 0$
Some "1/5"
Hans (N) -1
THansi (N-1)-1 THANSI (N-1)+1
THE (N-2)-1 THE (N-2)-1 THE (N-2)-1 THE (N-2)-1
Than (N-i)-1
Tw-1 22-2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 =
T(0)-0 T(0)-0 (3) M=N-1



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