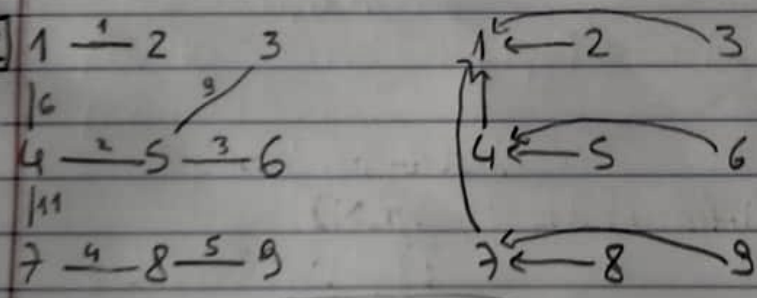
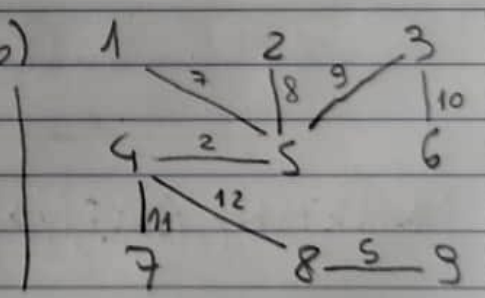
ER4

1 Func Pascal(n):
    if n>1: prev = Pascal(n-1)
    else: # curr = [1]; print(curr); return curr #
    curr = [1]
    for i = 1 → n-2: curr.push(prev[i] + prev[i+1])
    curr.push(1); print(curr); return curr

2

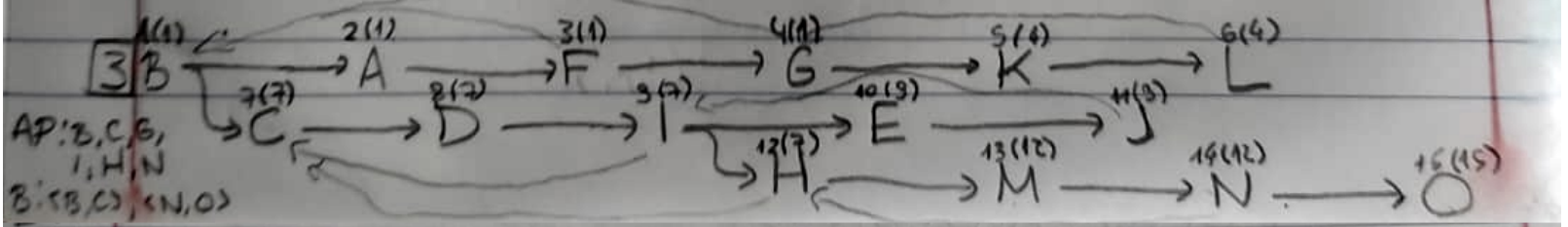


b)



	d	v
1	16	5
2	17	6
3	0	1
4	11	4
5	9	2
6	10	3
7	22	7
8	23	8
9	28	9

3



AP: B, C, G, I, H, N
B: ⟨B, C⟩; ⟨N, O⟩

4 Func BU(D, n, d):
    for k=0 → n: DP[k,0] = DP[0,k] = ∞
    for i=1 → n:
        for j=1 → n:
            DP[i,j] = d[i] + min(DP[i-1,j], DP[i,j-1], DP[i-1,j-1])
    return DP[i,j]

Isto é textbook $O(n^2)$!