

Month	Demand	
1	20	At t=1: $z_{1,1} = (A_1 + v_1 D_1) / D_1 = 5,25$
2	40	$z_{1,2} = [A_1 + v_1 (D_1 + D_2) + h_1 D_2] / (D_1 + D_2) = 4,55 < 5.25$
3	110	$z_{1,3} = [A_1 + v_1 (D_1 + D_2 + D_3) + h_1 (D_2 + D_3) + h_2 D_3] / (D_1 + D_2 + D_3) = 4,452941\% < 4.55$
4	120	$z_{1,4} = [A_1 + v_1 (D_1 + D_2 + D_3 + D_4) + h_1 (D_2 + D_3 + D_4) + h_2 (D_3 + D_4) + h_3 D_4] / (D_1 + D_2 + D_3 + D_4) = 4,513793\% > 4.45$
5	60	Q1 = D1+D2+D3 = 20+40+110 = 170
6	30	
7	20	At t=4:
8	30	$z_{4,4} = (A_4 + v_4 D_4) / D_4 = 4,208333\%$
9	80	$z_{4,5} = [A_4 + v_4 (D_4 + D_5) + h_4 D_5] / (D_4 + D_5) = 4,205555\% < 4.20833$
10	120	$z_{4,6} = [A_4 + v_4 (D_4 + D_5 + D_6) + h_4 (D_5 + D_6) + h_5 D_6] / (D_4 + D_5 + D_6) = 4,233333\% > 4.2055$
11	130	Q4 = D4+D5 = 120+60 = 180
12	40	
	800	At t=6:
		$z_{6,6} = (A_6 + v_6 D_6) / D_6 = 4,833333\%$
A	25	$z_{6,7} = [A_6 + v_6 (D_6 + D_7) + h_6 D_7] / (D_6 + D_7) = 4,58 < 4.833$
r	0,05	$z_{6,8} = [A_6 + v_6 (D_6 + D_7 + D_8) + h_6 (D_7 + D_8) + h_7 D_8] / (D_6 + D_7 + D_8) = 4,5125 < 4.58$
v	4	$z_{6,9} = [A_6 + v_6 (D_6 + D_7 + D_8 + D_9) + h_6 (D_7 + D_8 + D_9) + h_7 (D_8 + D_9) + h_8 D_9] / (D_6 + D_7 + D_8 + D_9) = 4,55625 > 4.5125$
h	0,2	Q6 = D6+D7+D8 = 30+20+30 = 80
		At t=9:
		$z_{9,9} = (A_9 + v_9 D_9) / D_9 = 4,3125$
		$z_{9,10} = [A_9 + v_9 (D_9 + D_{10}) + h_9 D_{10}] / (D_9 + D_{10}) = 4,245 < 4.3125$
		$z_{9,11} = [A_9 + v_1 (D_9 + D_{10} + D_{11}) + h_9 (D_{10} + D_{11}) + h_{10} D_{11}] / (D_9 + D_{10} + D_{11}) = 4,306060\% > 4.245$
		Q9 = D9+D10 = 80+120 =200
		At t=11:
		$z_{11,11} = (A_{11} + v_{11} D_{11}) / D_{11} = 4,192307\%$
		$z_{11,12} = [A_{11} + v_{11} (D_{11} + D_{12}) + h_{11} D_{12}] / (D_{11} + D_{12}) = 4,194117\% > 4.192308$
		Q11 = D11 = 130
		Q12 = D12 = 40

t	1	2	3	4	5	6	7	8	9	10	11	12	Total
Dt	20	40	110	120	60	30	20	30	80	120	130	40	800
Qt	170			180		80			200		130	40	800
It	150	110	0	60	0	50	30	0	120	0	0	0	520
Setup cost	25	0	0	25	0	25	0	0	25	0	25	25	150
Holding cost	30	22	0	12	0	10	6	0	24	0	0	0	104
Total cost	55	22	0	37	0	35	6	0	49	0	25	25	254