ESR. 1. Proportion foirmes u(n) = logner yields the following & prolution: non \(\frac{1}{700} \text{U(m)} = \text{non } \(\frac{1}{700} \text{log mr} \) much constraids not me < 1 × l = 0, 1 ..., L 27,0 n is viction of no through nx by n >- 0 ao No ... 27. 4 v = 0, ... L. Last vonskans can be ignored. Pr: Lagrangia multipliers associated with capacity constrant at link 1 and p = vetter of lagrangia i multiplier. Lagrangen L L(n, p) = $\sum_{i=1}^{n} \log n_i$ - $\sum_{i=1}^{n} \log (n_{i+1} n_{i-1})$ 1. No: 2 PL Ne: - - PL Hlz] KKT condition Pr(2.+21-1) 20 4 Przo Alz1 :. PL = 4 (2) ... Mr: 1 / 7/2 Lift 4/2/

2: Minimum potented delay mon 5-1 720 77 with contraits ¥ l=0, ..., L not 7/ 5/ L(n,p) = = - - - Epr (notn - 1) 3h = 0 for each or gives Pr (not 21-1) 20 and 1270 4671 Adminy, Fight = 1+ TL

100 - 1+ TL

1+ TL 3. Sun- rete man & v/m = man & Ny no+ n/ 5 1 1/20,... L Mr. 1) = \frac{1}{2} \text{Pr(dr+ xx-1)} Lagrangian doesn't que any result.

Lagrangian doesn't que any result.

By droundian, 2r = 1 - 20 is the optimal adultions as while monotonically doesn't deveases with 20 increase. DL 20