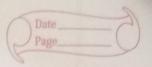
Adv. Grypto brophy CT-3 CEPE18 106118036



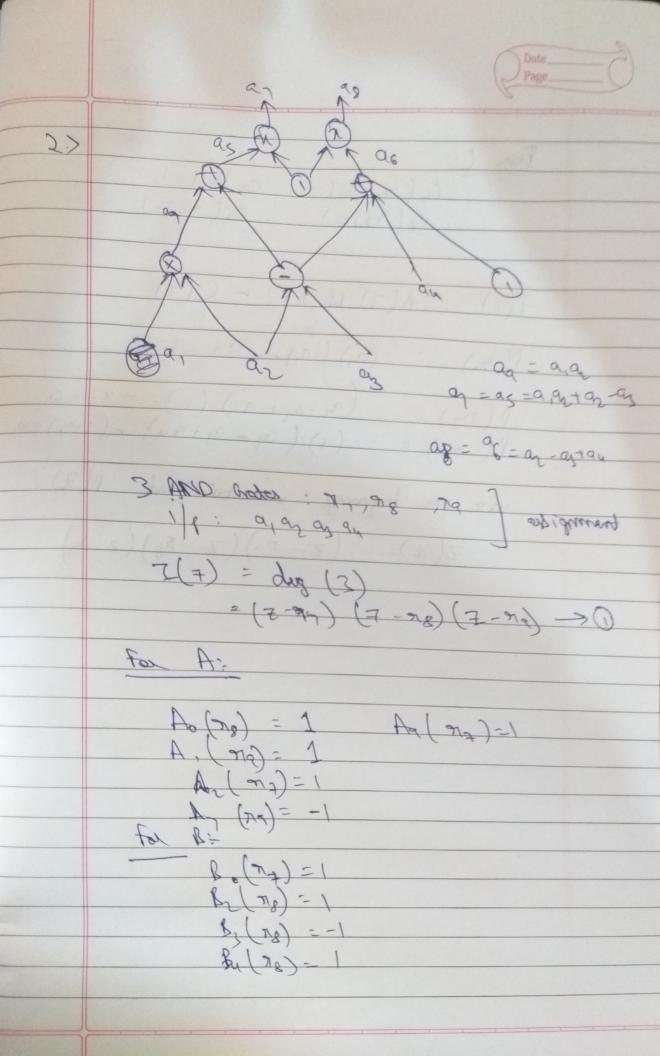
F(x)= S, *S2= 12+26x+10x2 Nov 2t-1=3 f(1) = 4-1.11 = 4 f(3) = 104 7.11 = 5 f(3) = 180 \$11 = 180 1 A= [11]
123
[149] So A-1= 3 -5/2 1/2]

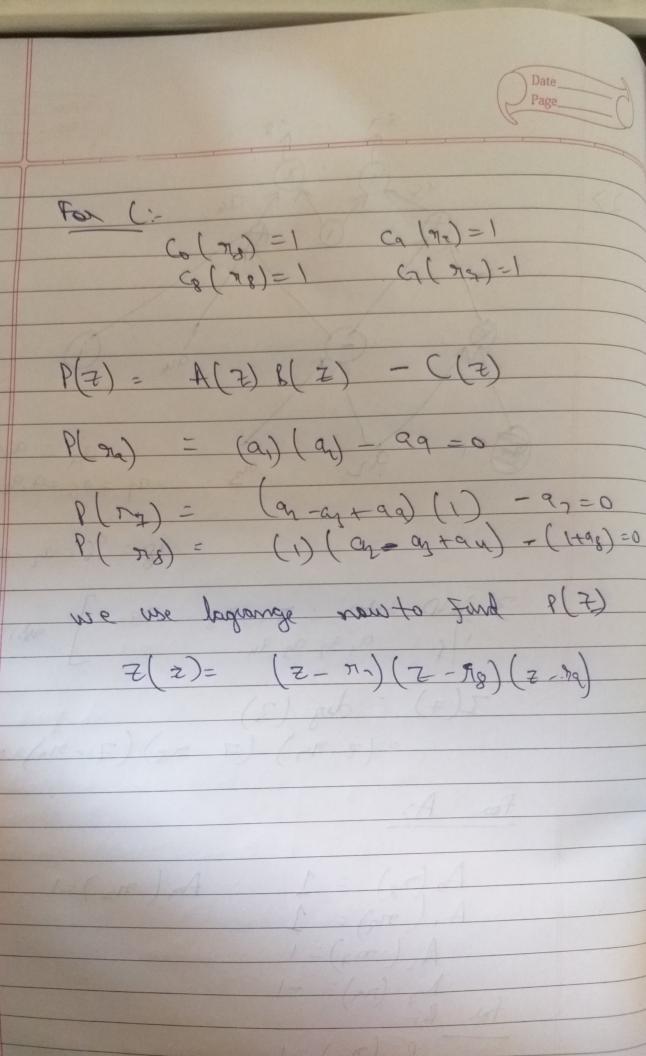
-3 4 -1

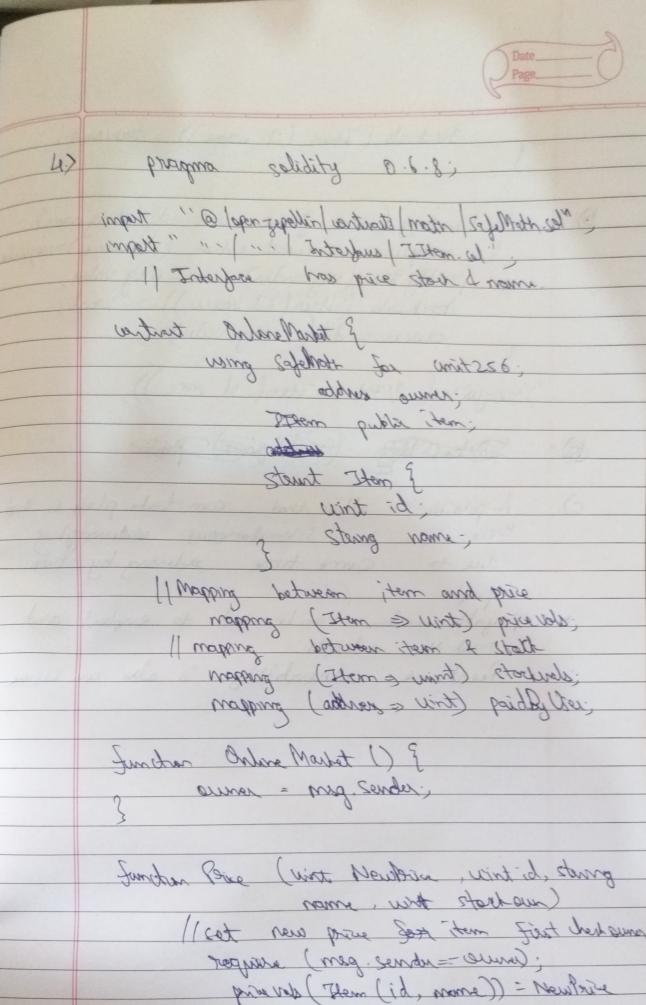
1 -3/2 1/2 $h_{1}(x) = 8 * 6 + x = 4 + x$ Shares $\rightarrow 9 * 5,6,73$ $h_2(x) = 13 \times 8 + x = 5 + x$ Shares $\rightarrow \{6,7.8\}$ 1/3(x)= 18x10 + x= 4+ x

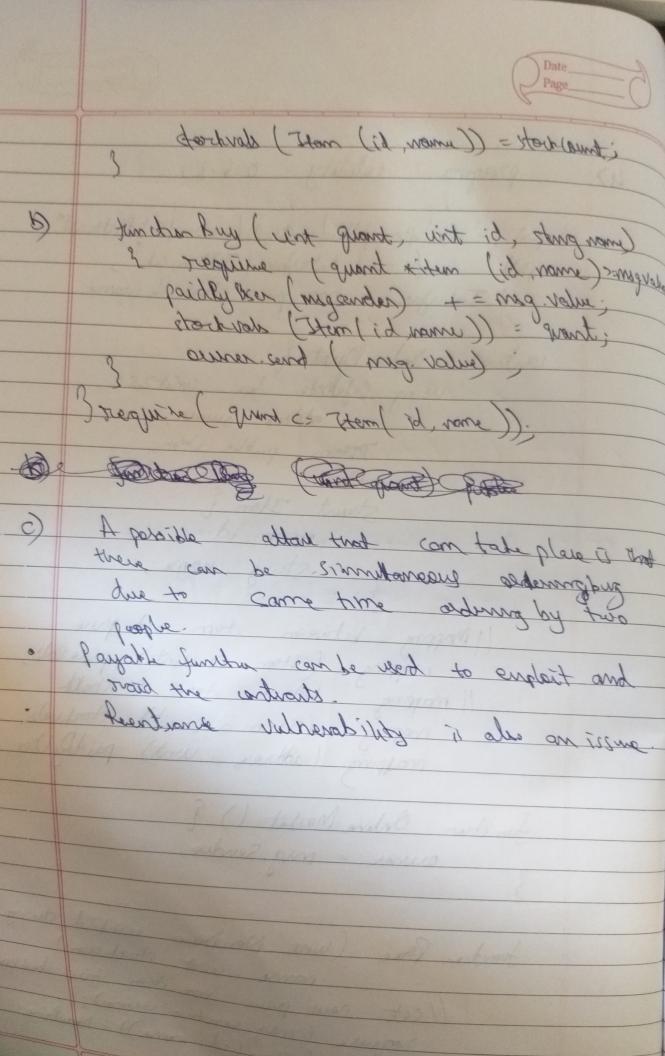
Share > 25,6,7]

h(n)= p, h, (n)+ +2h (n) + 93 h (n) hl)= 3+5 + 6(-3) + 5 $h(2) = \frac{2}{3 \times 6} + (-3) \times 7 + 6$ = 3 So, we get (1,2) 4 (2,3) Wing hagrange theorem, $Sol^n = \frac{2 \times -2}{(1-2)} + \frac{3(-1)}{(2-1)}$ = 4 + (-3) 1= 1 S,S= (2x:11= 1) i. The protool was demonstrated and verified









106118036 CT-3 CSPE18 Page 3) N= 5*11 = 55 0= {a: n2= a (modN)} unven that set (G, *ModN) is cyclicgons. Now we need perfect (quarer, so, it is
quadratic regidue. 22 model e g1, 4, 9, 16, 25, 36, 49-5-11 Therefore, use can have a de, a ∈ { 1,4,5,9,11,14,15,16,20,25,26,31,34 Hence

(:Done wing lode)

Hence

(1,4,5,9,11,14,15,16,20,25,26,31,34

36,44,45,49} But we are unable to find the generator, hence, NO Generator