Note: $\frac{\partial h_i}{\partial z_j} = \frac{\partial (\text{Rela(zi)})}{\partial z_j} = 8051(zi)$ o otherwise d) $\frac{\partial L}{\partial z_2} = \frac{\partial L}{\partial h_2} = \frac{\partial h_2}{\partial z_2} = \frac{\partial L}{\partial z_2} = \frac{\partial L}{$ 26 = 26 dhy = 103608) 1 Zo = ao xi dzt = Six xi e) $\frac{\partial L}{\partial q_{21}} = \frac{\partial L}{\partial z_{2}} = \frac{\partial L}{\partial q_{21}} = -0.0180 \times x_{1} = -0.0180 \cdot x_{1} = -0.0180$ 3022 = 32 3022 = -0.0180 6x2=-0.0180 -3=-0.0540 1 a) # weights ~ O(H22) b) # consadation sor de 2 O(HI) C) Following the product of (a) and (b) 2 n over number of computations should simply approximately OCCHELTZ) has our number of computations Is quadrate with respect to neights

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7) 9) houts = Ewish; Though - Dwin i Swehm = Swehm = 855 hk AMan = Strang Spicon = Strang pr 80% H2 for neight dervatore dervatore Elleven Land 146 22 - [Shum] [h, his --- how] [alun) = alun (Fib) = alun & Fe outer product # total computations = 0°(H2) hitted = Woishi This was

