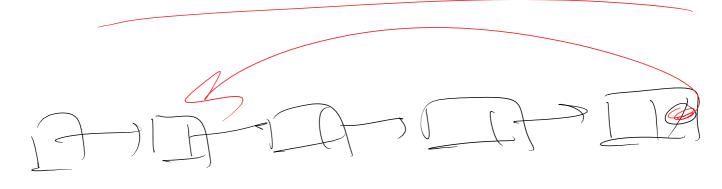
Exam 1: Monda NO TREES 1 Distance - Exam will be open 8PM monday evening - Allow page of notes lales allowed Basic Unix / malcefile hwl. hw1.0 f1.0 f2.0 hwl.cpp fl.cpp fz.cpp Onffence between Jeva - C++ I/o C++ Parameter Bassing value us veterere void fun (int x, int &y, int 2) X=10/ Y=20/ Z=30/ fun (10, 10, 2); X - 7 - 2 -

program lagont , h, cpp classes mi C++ pseud Avvey 5. push (A) Queue S. push (B) L1845 S. pup () 5. push(c) 5. prush (s.top()) D-pilce & coell - metern list - What the ontput

a Add nunlan Antinto yun Ust class Dynaterry kth Dremore every Kth mode (3) Append lists A malle civen (an Malle an adaption Search

15/7/w/75/2/4 And (2) 4 + 4 + vord append (List & LZ) L2 1-16/1-12/P



$$T(n) = 3n^{2} + 5n + 2$$

$$O(g(n)) + f(n) = O(g(n)) + f(n)$$

$$T(n) = O(g(n)) + f(n)$$

$$T(n) = c \cdot g(n)$$

$$C > 0; n = M_{0}$$

$$3n^{2} + 5n + 2 \leq C \cdot y^{3} + M_{0} = 3$$

$$h = 1 \quad 9 \quad c = 2 + 2 \quad C = 10$$

$$h = 2 \quad 24$$

 $\frac{2}{10} = \frac{3}{3} + \frac{3}{10} = \frac{3}{10} =$

 $T(n) = \Omega(g(n)) iff$ $T(n) \geq c \cdot g(n)$ $n \geq n_0 \text{ and } c > \delta$

 $T(n) = 3n^2 + 5n + 2$ $= \Omega(n) = \Omega(n^3)$

 $3n^{2} + 5n + 2 = cn$ $2 = 1 \qquad n = 1$ $n \qquad 7(n) \qquad g(n) \qquad n^{2}$

 $T(a) = 3n^2 + 5n + 2 = \Theta(g(n))$ $e_1, g(n) \leq T(u) \leq e_2, g(n)$ = Θ (N^2) 2 +5 n +2 = 5/2 /x