~ ~ ~ ~ ~ ~ Lab 3 Willam De Brue d(n) 2 (n3) 4 4 2.) n login vs n (login) -2) n2 log (n) < n (log (n)) 4 4 grows foster vs 2 3 Inlogn grows foster 4 4 4. 2 b/c grows foster by foctor of 2 1 Prob # 2. $\frac{1}{2} \frac{i \cdot i}{4} \frac{n}{2} \frac{n}{2} \frac{1}{\log n \cdot 3} \frac{1}{12}$ $\frac{1}{2} \frac{i \cdot i}{4} \frac{n}{2} \frac{n}{2} \frac{1}{\log n \cdot 4} \frac{1}{12}$ $\frac{1}{3} \frac{1}{9} \frac{1}{12} \frac{1}{12}$ T D D D D K=N K=NN D Best Cose = O(1) Worst Cose = O(Nn) Avg (ose = O(Nn) D 0