John Spicer I pledge my honor that I have abided by the Stevens Honor System 11/12/15 CS385 HW 4

when Li is copied to Lz, don't reverse 2105 × 11132 = 2,496,060

(2 = 9, xb, = 22x11 = 242

(0 = 0, xb, = 22x11 = 242

(1 = (0, +0, -) x (6, +0, -) - (c2+(0) = 27x43-40)

212 x 111

(2 = 2

(0 = 2 4 x 2 - 4 - 4)

(1 = 4 x 2 - 4 - 4) 3. q. every input is less than the pivat b. O(12)

2, 3/4 × 3/2 C = 0 C, = 5x 5-10 = 15 800 3 40 21 1161-402=759 n= 4 = (210m + 4102+Co = (242)104+C759)102+160= (25496,060

6.9. 10,8,5,3,5,2,1,7,1,67,6 6.9. 13,5,5,8,5,2,1,7,1,67,6 6.3,5,5,8,1,2,8,10,6,7,10 d. 5. leaves f. 4 is m are width g. 3 is height 7.9.2 = 24 f(n) = e(E001) f(n) = e(E001) f(n) = 0 (n k) = 0 (n k) f(n) = 4 = 24 f(C: a>2 b>4 f(n) = n & O(n) d>1 2-L4 Q(n) d. a=2 fb=4 f(n)=n² EQ(n²) a=2 2 L 4² Q(n²) e. 9:2 f(n)=n3 ED(n3) 2(-3) 2(-3) 8. 9. $t(n) = 6t(\frac{h}{3}) + h^{3/2}$ b. a = 6 $(\frac{b}{3})^{\frac{3}{2}} + h^{3/2} = 0$ $(h^{\frac{3}{2}})^{\frac{3}{2}}$ $(h^{\frac{3}{2}})^{\frac{3}{2}}$ $(h^{\frac{3}{2}})^{\frac{3}{2}}$