Reminde Exam I monday Sept 29th ii-class

> class noch ¿ public; int f!; node \*f2;

> > nocle \* p = new nocle; \*P 5264: (7) 72

$$p \rightarrow fl = 20j$$
  
 $(*p). fl = 20j$ 

 $p = f_{2} = p_{2}$   $p = f_{2} = p_{3}$   $p = f_{2} = p_{4}$   $p = f_{2}$   $p = f_{2} = f_{2}$   $p = f_{2} = f_{3}$   $p = f_{2} = f_{1} = g_{3}$   $(x(p - f_{2})) = f_{1} = g_{3}$ 

1 Need to be able compute T(n) for small piece of code

$$=\Omega(g(n))$$

= ( g cm)

3 proputies of 0, 12, 0

E understrud what Gig O means

(5) under stranter order of granter with respect to nos

 $T(n) = n^2$ 

 $h = \frac{100}{2}$  fml = 2sec

N = 350

$$T\left(\frac{300}{100}\right) = \left(\frac{300}{100}\right)^{2}$$

$$= \sqrt{28ec}$$

n = 100

T(100) = 1002 = 10000 25ec

 $T(300) = 300^{2}$  = 90000 |88ec

6 busic math

 $\leq c$ 

Zi

 $\leq i^{\gamma}$ 

Trees

General Tree

O-nodes

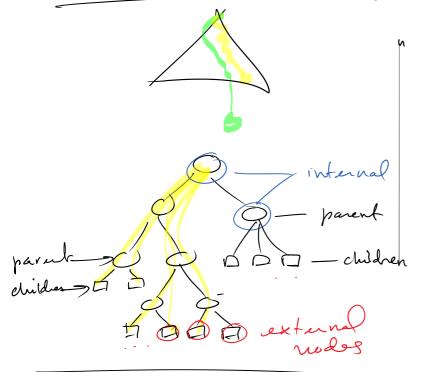
eldest

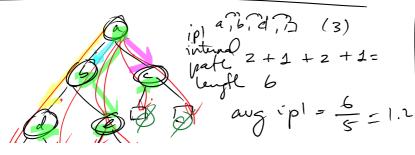
gaugest children

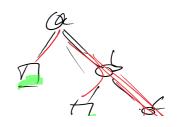
cedge (R,A)

path R,B,X

Path R,B,X

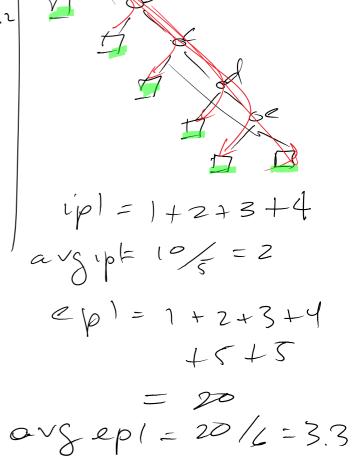


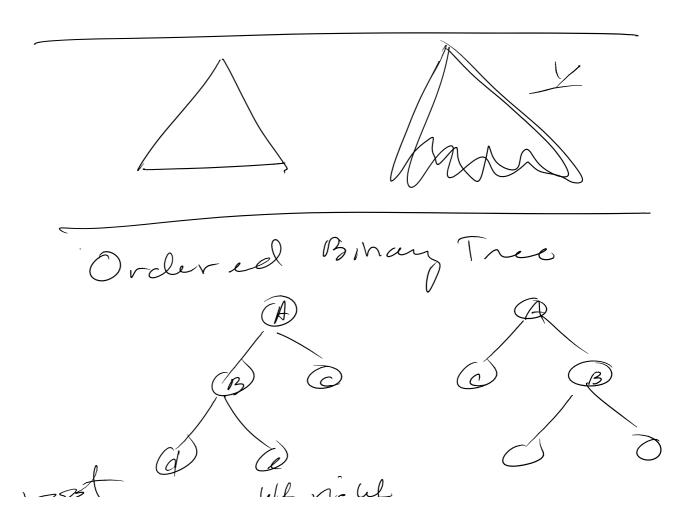




extensed  
path length  

$$epl = 3+3+3+3+$$
  
 $2+2=16$   
ang  $epl = \frac{16}{6} = 2.6$ 





-| @ | 10/e