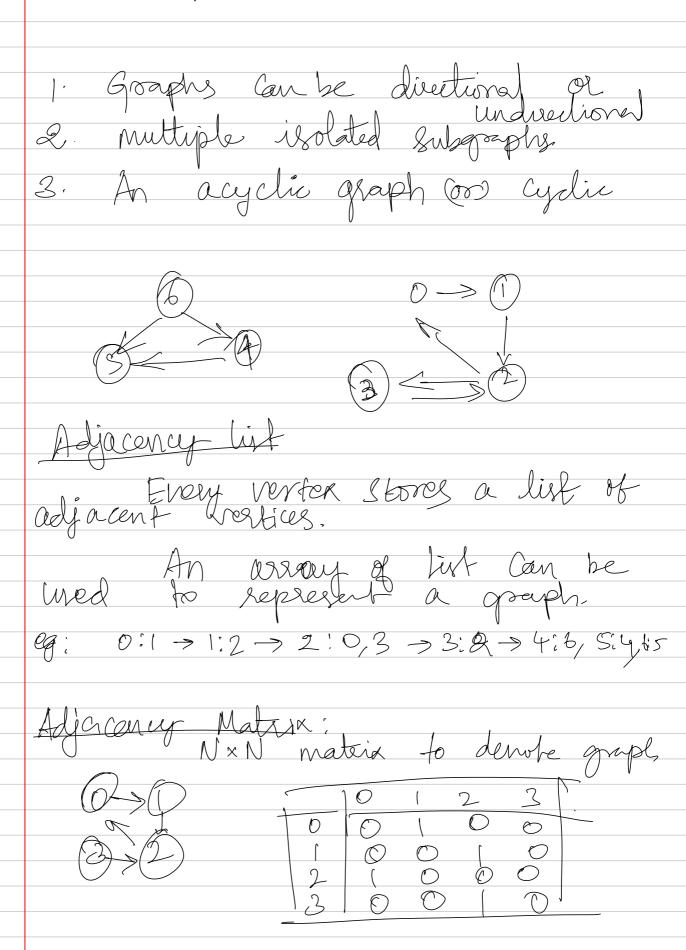
Graphs



Graph Search

Depth Port

Start of Root

Explore each South
before going on to

Next Branch

0-1-2

0-1-2-2, 4 5

Local Hirt

Start at Root

Explore cach reightor

before going on to

Children

O F F S 3 2

Bit Manipulation

+ > Addition

- > Subtraction

X > multiplication

A > Expr

Pot

L = AND

L = Shift by

Signed Bit numbers

 $\frac{70 \text{ find}}{3} = 0$ $\frac{3}{3} = 0$ $\frac{3}$

Get Bit: get ith b9t

(num & (120i)) (=0) Set B9t = change it bit to mm (i/c) Clear Bit: clear it bit int mark = ~ (1262) num & mask leave last i bits int mast = (12Ci)-1 Sect of 1's followed by i Delos. int mark = (-166 (i+1)) num & mask Update bit Change it bit to value V Int value = bit Is!?!. (nt mark = ~ (1 cc1); 0 (num & mark) (value cci)