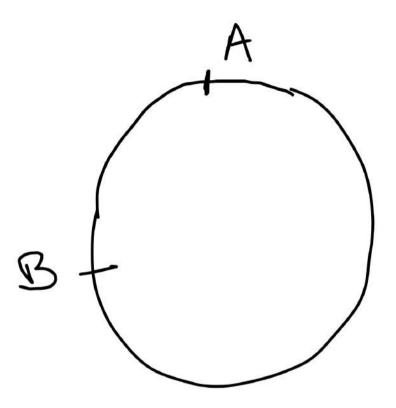


HOW TO DETECT CYCLE? Speed of A = 2 x Speed of B



2 Steps 7 | Stops

IF SLOW & FAST POINTERS END UP MEETING AT SOMS POINT, THEN IT MEANS A LYCLE FXISTS

FLOYD CYCLE DETECTION

Distance travelled by Slow = 21+4
Distance travelled by Fast = 21+2y+3 Distance travelled by Fast = 2x (Distance travelled by Slow) x+2y+3 = 2(x+y) x+2y+3 = 2x+2y

$$\frac{\partial x}{\partial x} = 2x$$

MEAD

MOVE ANY POINTER SLOW OR FAST TO HEAD. ILST'S SAY YOU ARE MOVING SLOW TO HEAD, THEN KEEP FAST AT MEETING POINT ONLY. NOW MOVE SLOW & FAST BY ONE STEP ONLY, i.e.

SLOW = SLOW. NEXT

FAST = FAST. MEXT

SLIW & FAST will meet at the starting Point of the cycle. NOW, JUST SET THE NEXT OF PREV NODE TO NULL FOR INSTANCE-1->2->3 ->4 -> 1->2->3-4)

MARIN S NULL # 98 J

Prev J T

A CV コ2-33-4-35-6-77-8-NULL