	Aug 04
Note Title	Aug 24 24-08-2011
	Thursday - Seminar Room (501) Bharti Building
	15 nover 1500 11 - 12
	Carry Lookahead Adder
	Ripple Coury Adder: Time 3 pace O(n)
	Carry Select Adder: Time Space
	$O(\sqrt{n})$ $\dot{O}(2n)$

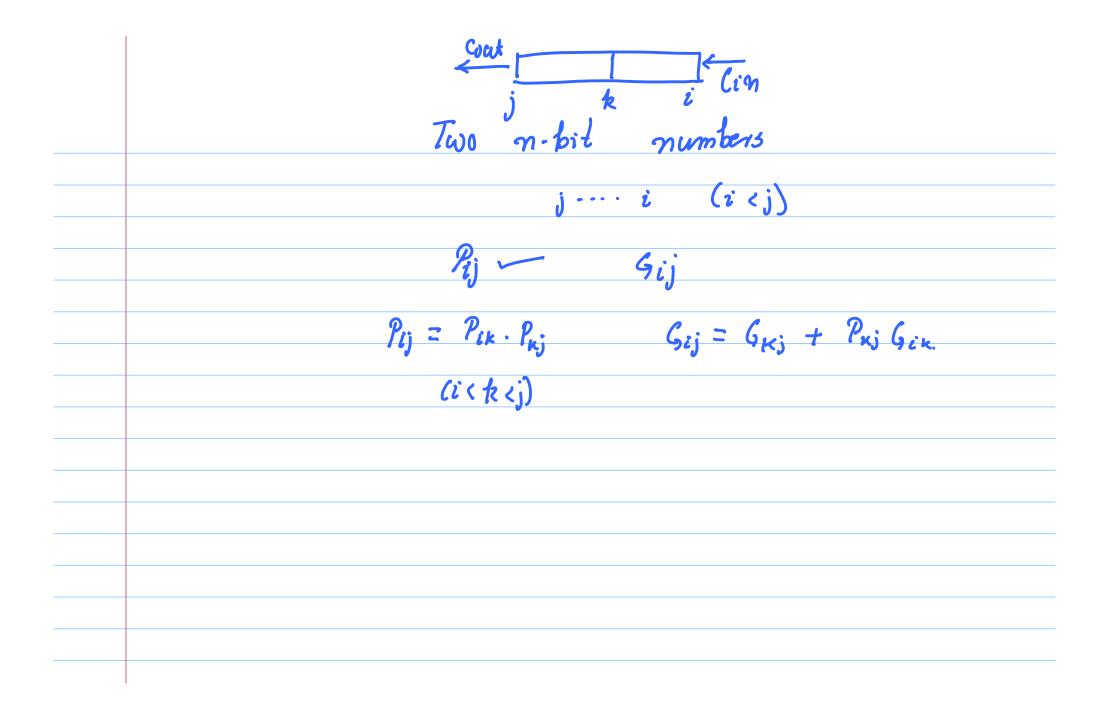
Corry Lookahead Adder: Time Space O(log(n)) $\theta(2n)$ 6= ab P = a+b [ab+āb] Cout = G+ P.Cin Cin

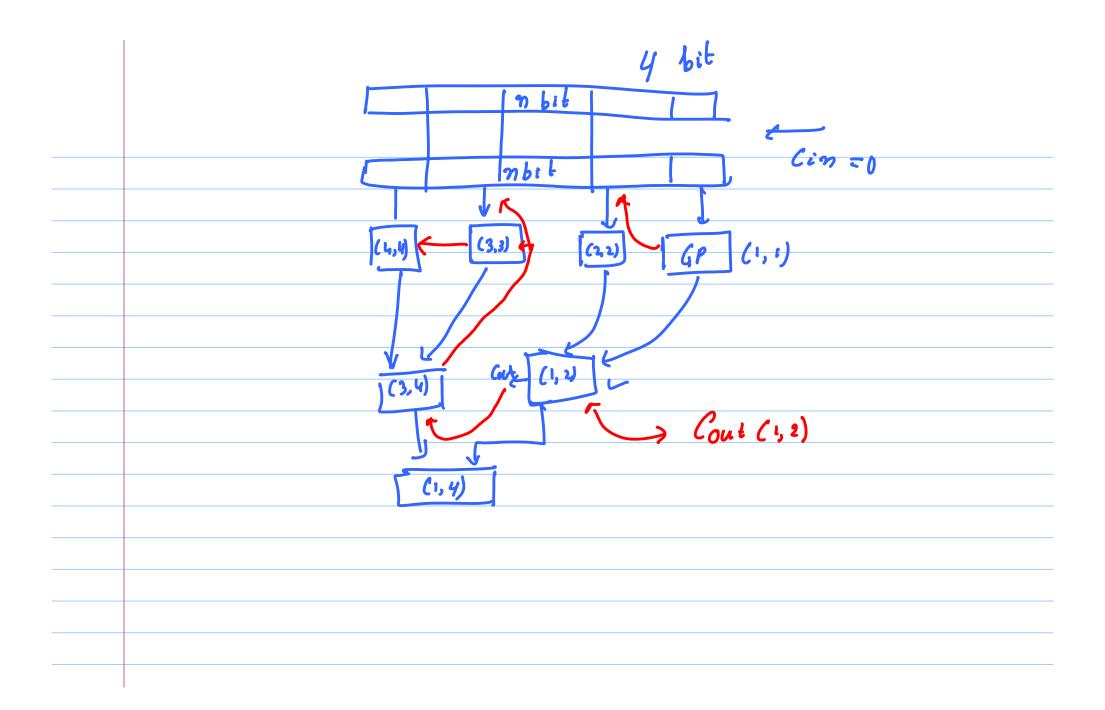
$$=G_2+P_2\left(G_1+P_1C_{in}\right)$$

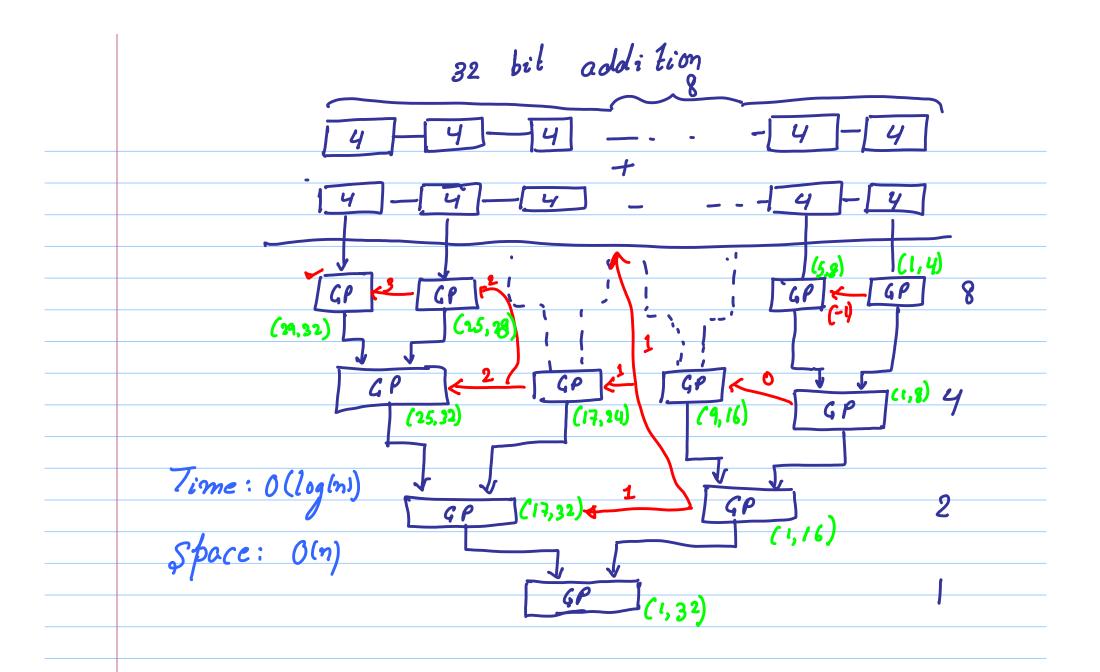
$$= (G_2 + P_2 G_1) + (P_1 P_2) C_{in}$$

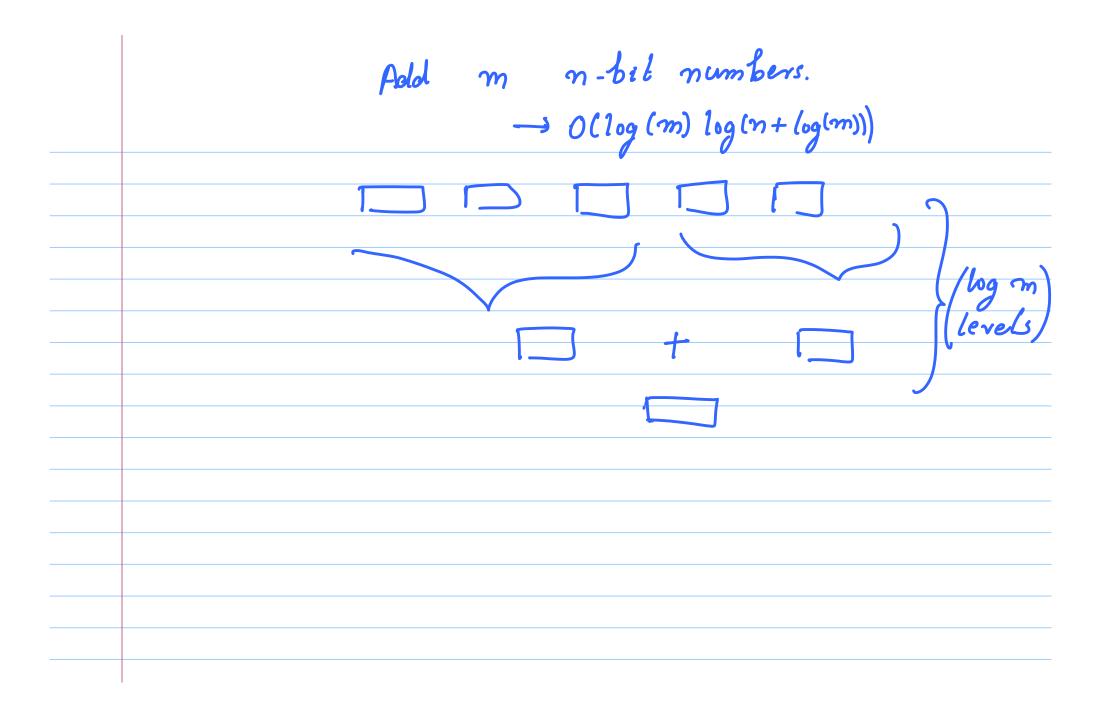
$$P = P_1 \cdots P_n$$

$$G = G_{n} + P_{n} G_{n-1} + P_{n} P_{n-1} \cdot G_{n-2} + P_{n-1} \cdot G_{n-2}$$









Multiplication

