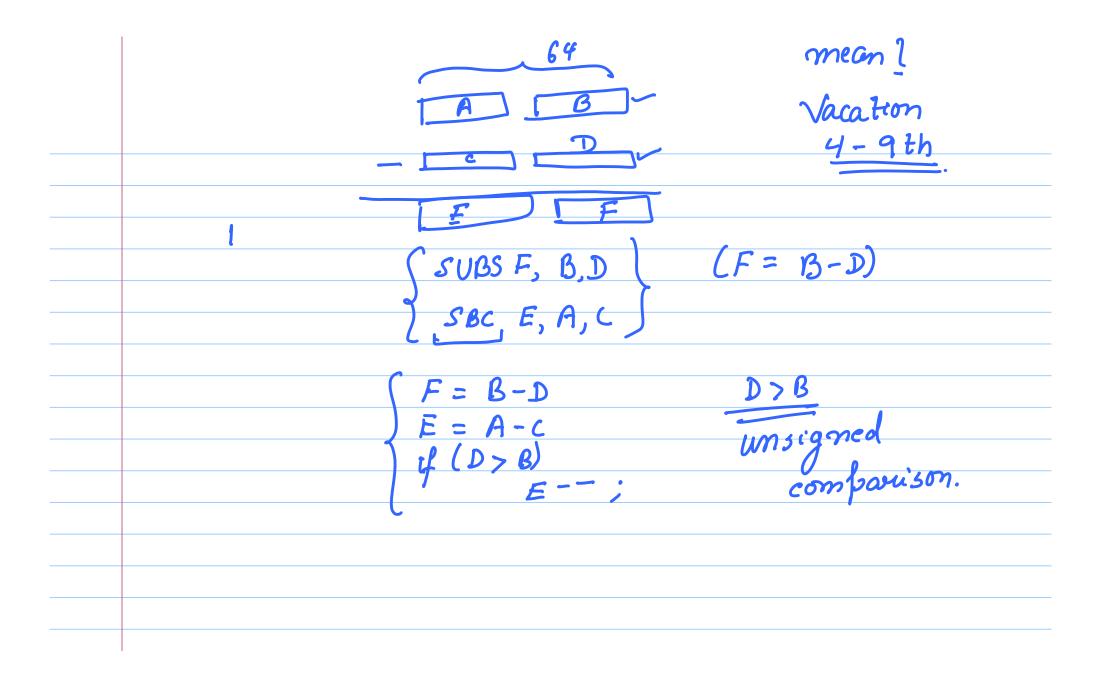
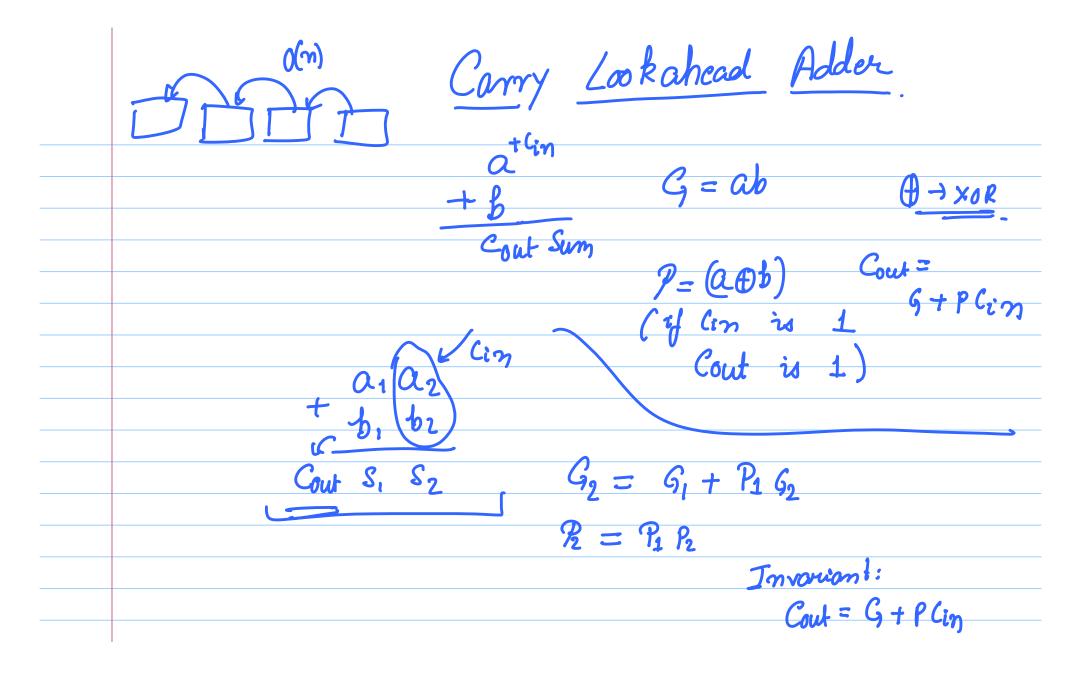
Sept -26 26-09-2011 Note Title Syllabus -> Uptil 21st Class Notes • Chapter 1-3
(Book) · Notes on Adder 2 FP Focus: O notation Be very clear about O(log(n))
what does it





$$\begin{cases} a_{k} & a_{k-1} & ---- & a_{1} \\ b_{k} & b_{k-1} & --- & b_{1} \end{cases}$$

$$\frac{-G_{1}P_{2}}{a_{k}} - a_{1} \cdot a_{1-1} - a_{1}$$

$$G = G_{2} + P_{2}G_{1}$$

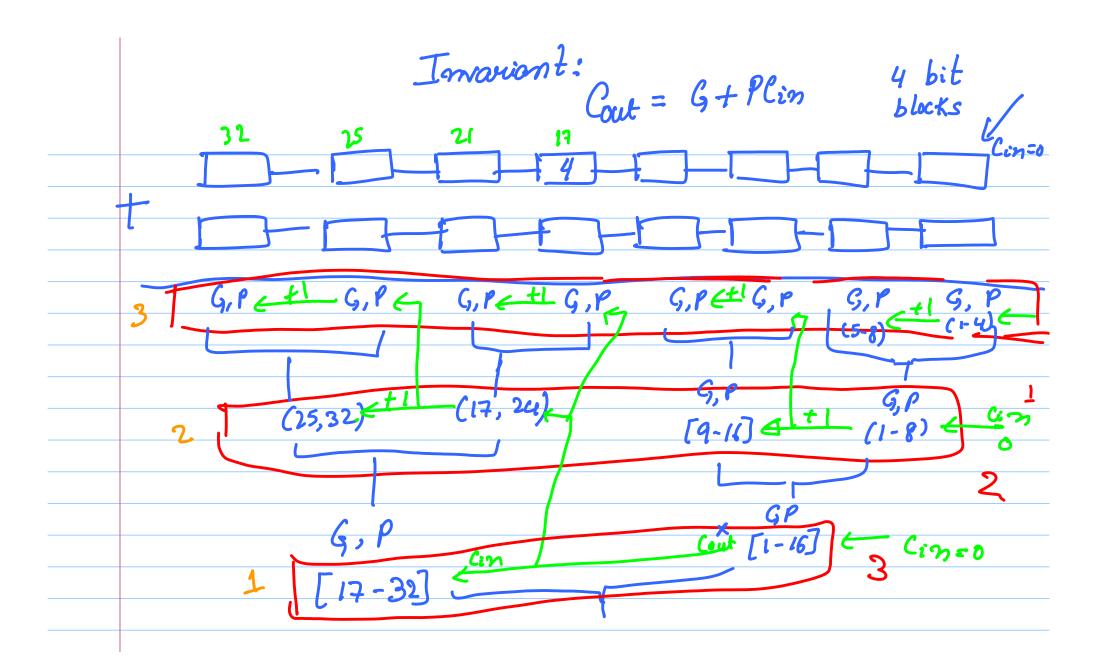
$$P = P_{1}P_{2}$$

$$a_{k} - a_{1} \cdot a_{1-1} - a_{1}$$

$$G_{2} = G_{1} + P_{2} \cdot G_{1}$$

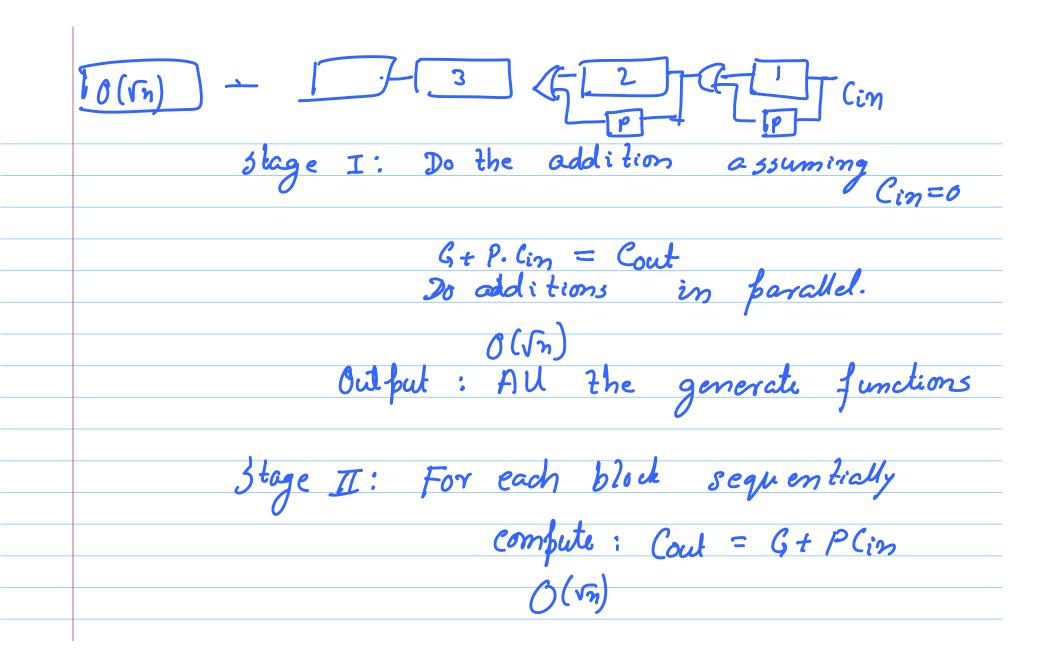
$$G_{3} = G_{1} + P_{4} \cdot G_{1} \cdot a_{1}$$

$$P_{4} = P_{4} \cdot a_{1-1} \cdot P_{4}$$



[1-32]Cout =  $G_{32} + P_{32}$ . (m) = ((1,32) Ollog(n) log(n) steps: Generate 2 propagete log(n) signals (tree fashion) Compute the carry You have -> Values of Cin for every block. log(n)

Do a ribble corry addition with the value of Pin Total time: O(log(n)) Question 6 Only use Propagate 9 = Cout of adding two block with Cin = 0 CARRY- SKIP ADDER



Outful: The correct values of (in for every block

Stage III i Add again with correct value

O(Vin)

Final Complexity: 0(Vin)

Next Class: Oct 10th

Final Exam: Nov. End