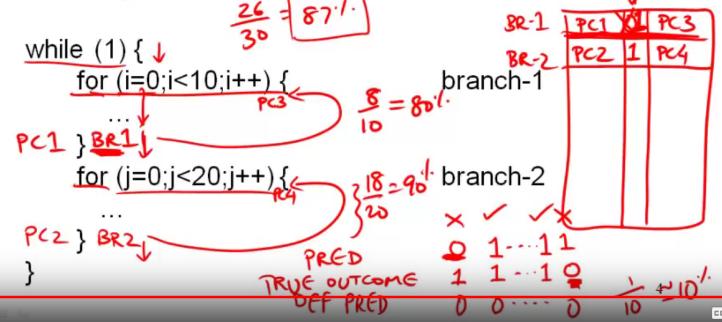


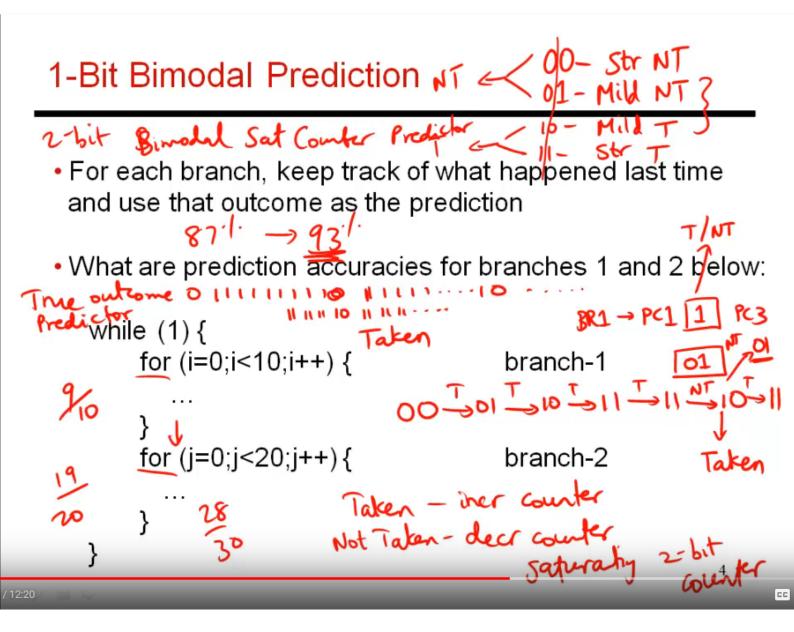
0= Not Taken

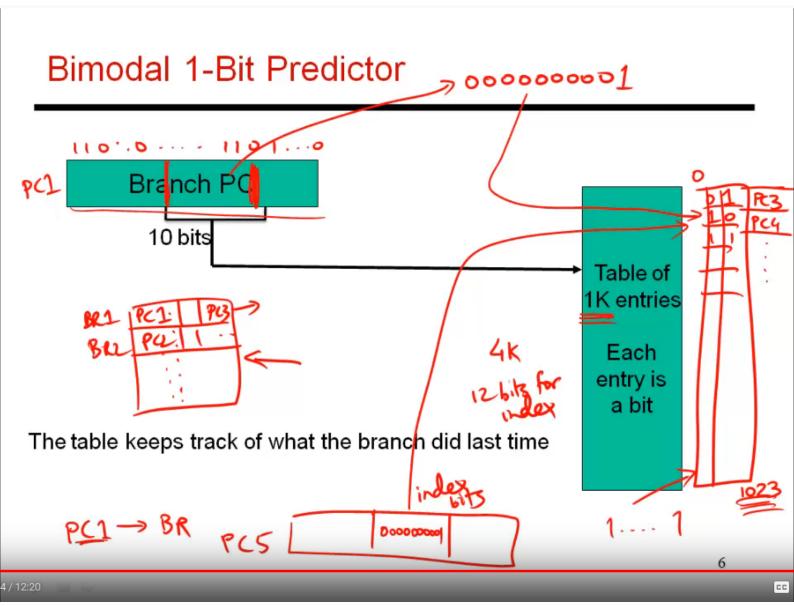
1= Taken

- For each branch, keep track of what happened last time and use that outcome as the prediction

 R-1 — PC1
- What are prediction accuracies for branches 1 and 2 delow:

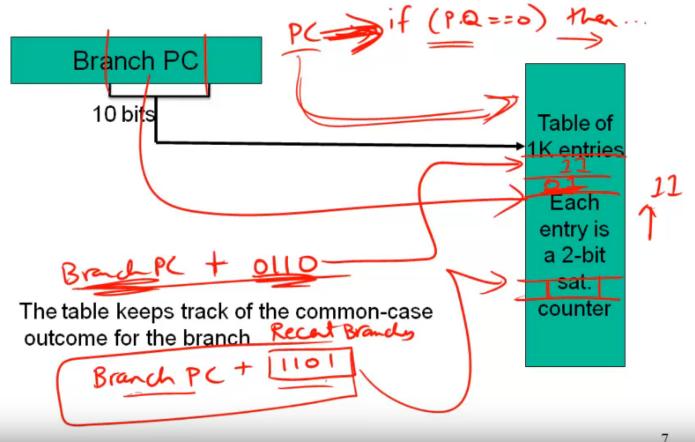






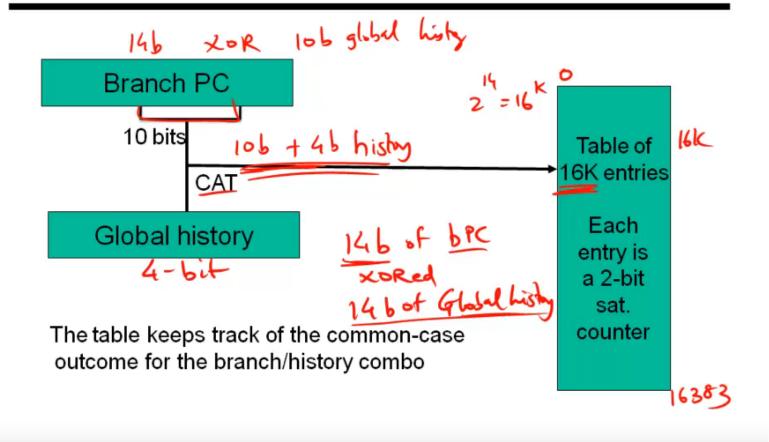
Bimodal 2-Bit Predictor

if (P==0) They



CC

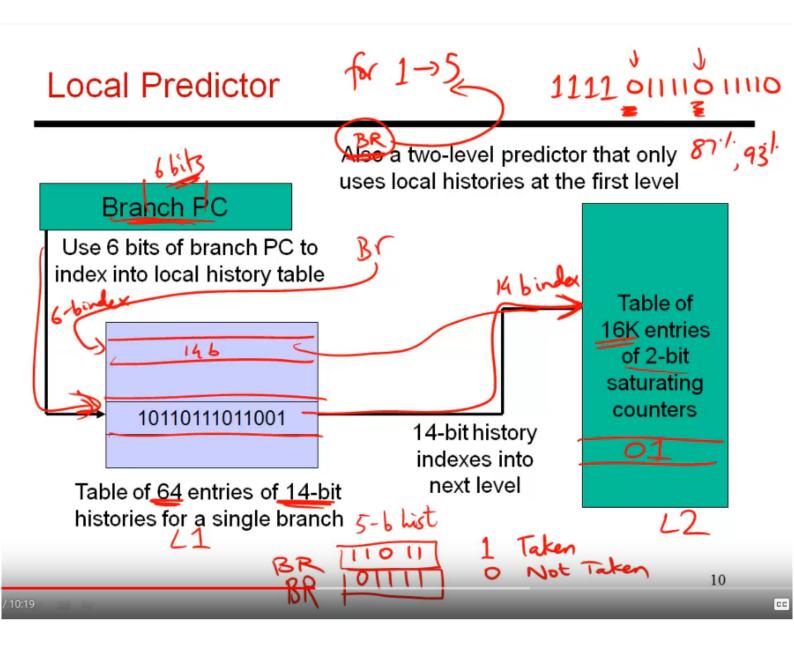
Global Predictor



9

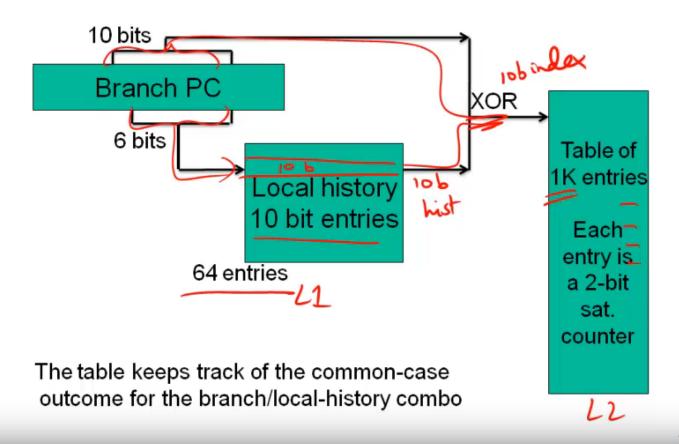
CC

6:48



Local Predictor





11

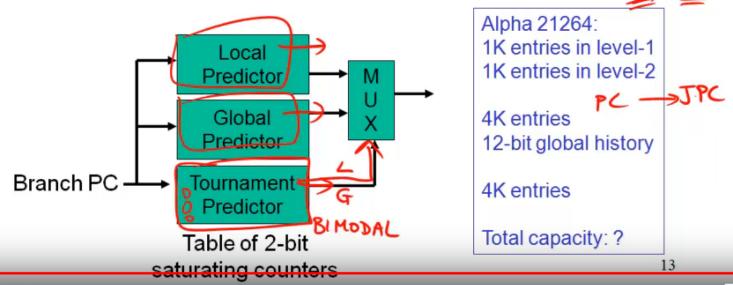
CC

10:19

Tournament Predictors



- A local predictor might work well for some branches or programs, while a global predictor might work well for others
- Provide one of each and maintain another predictor to identify which predictor is best for each branch



4/10:19