## Video Lectures On Artificial Intelligence

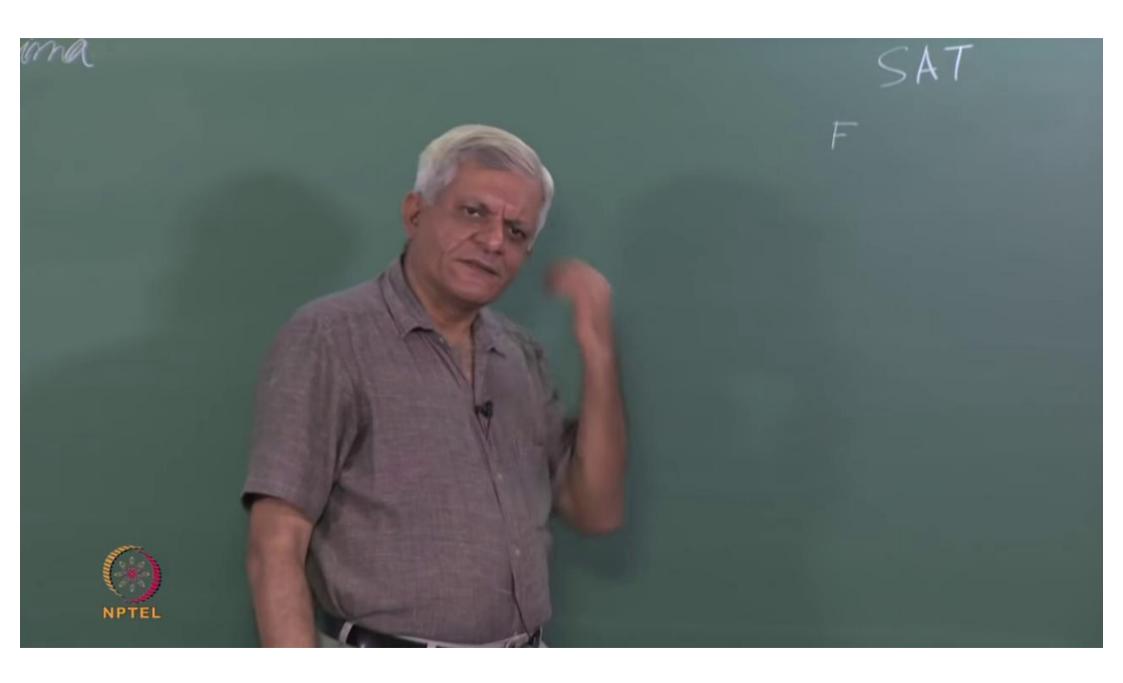
Lecture 11
Solution Space Search, Beam Search

Prof. Deepak Khemani



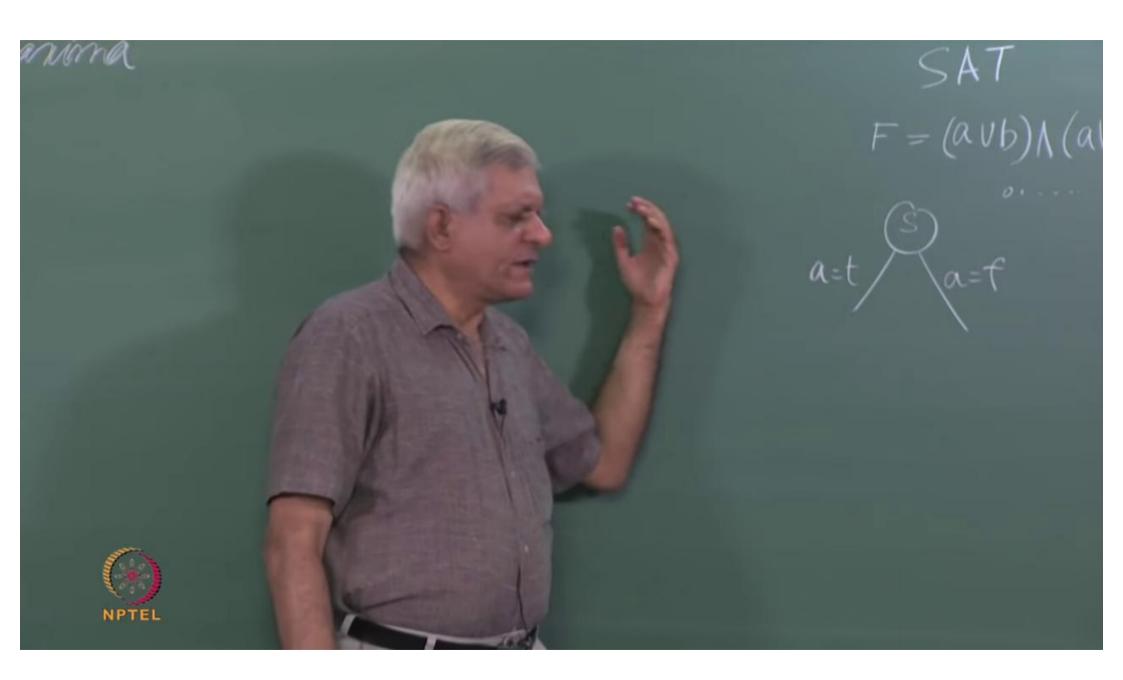
Department of Computer Science and Engineering
IIT Madras

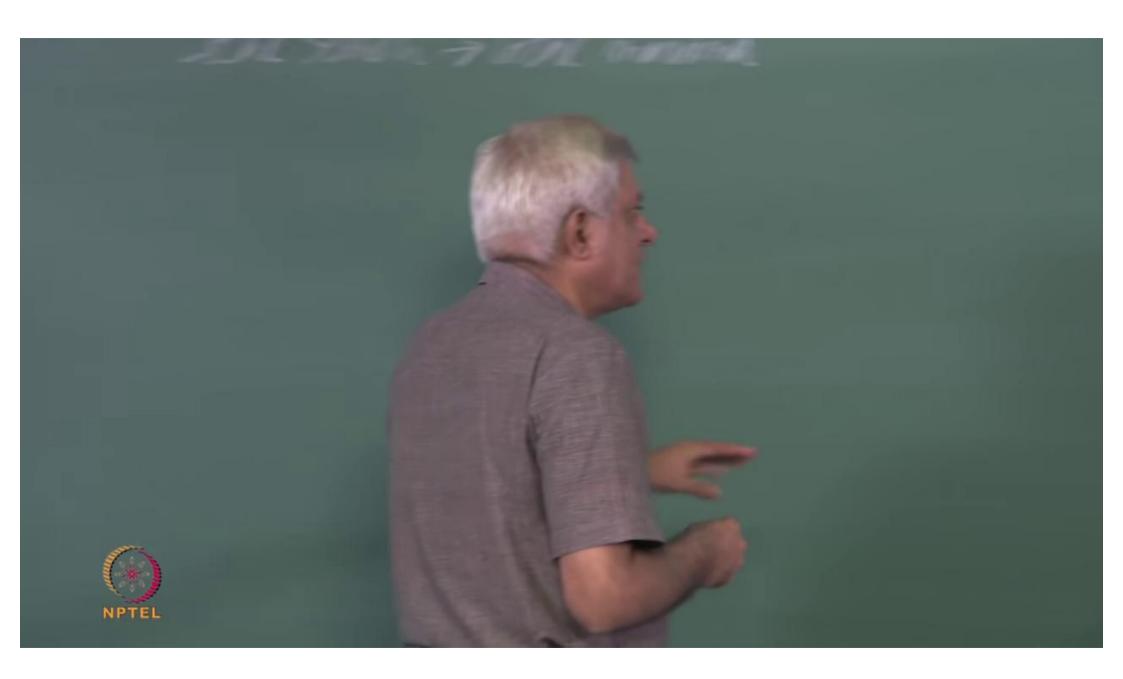


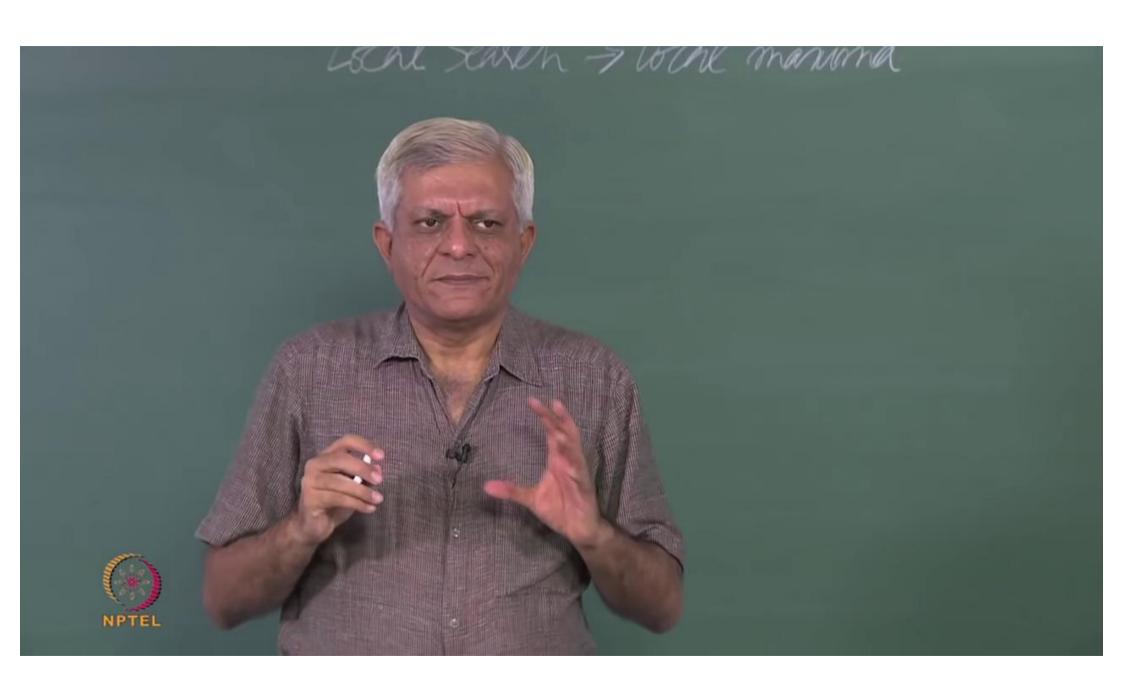


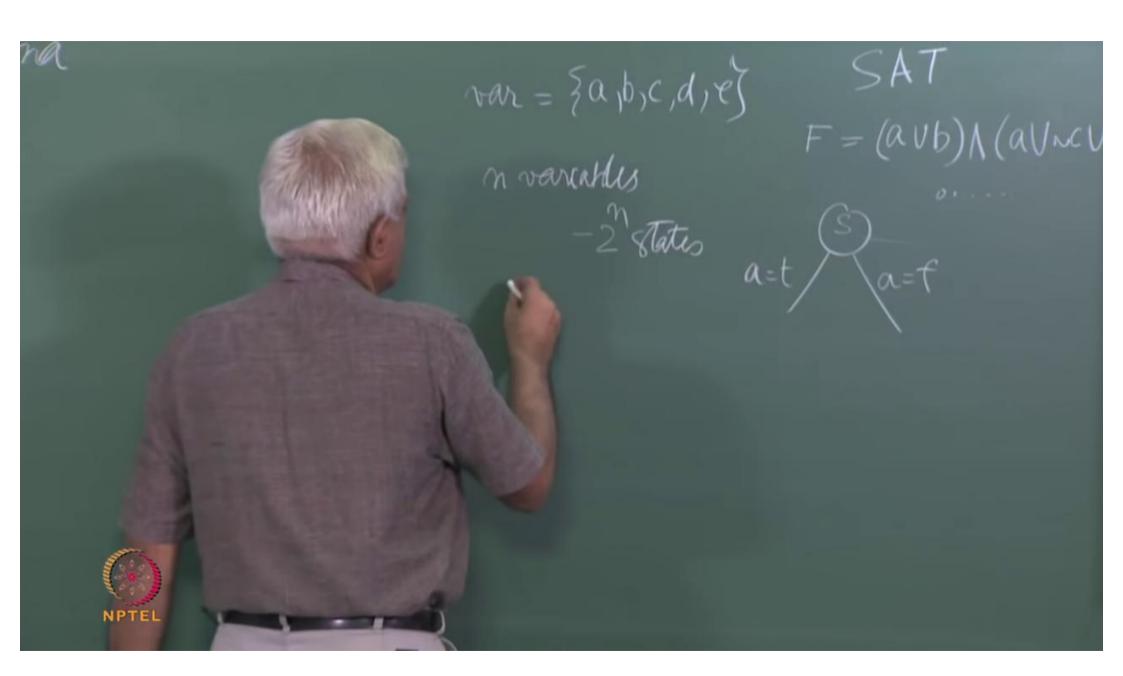
 $\leq AT$ F = (avb) / (all xclb)











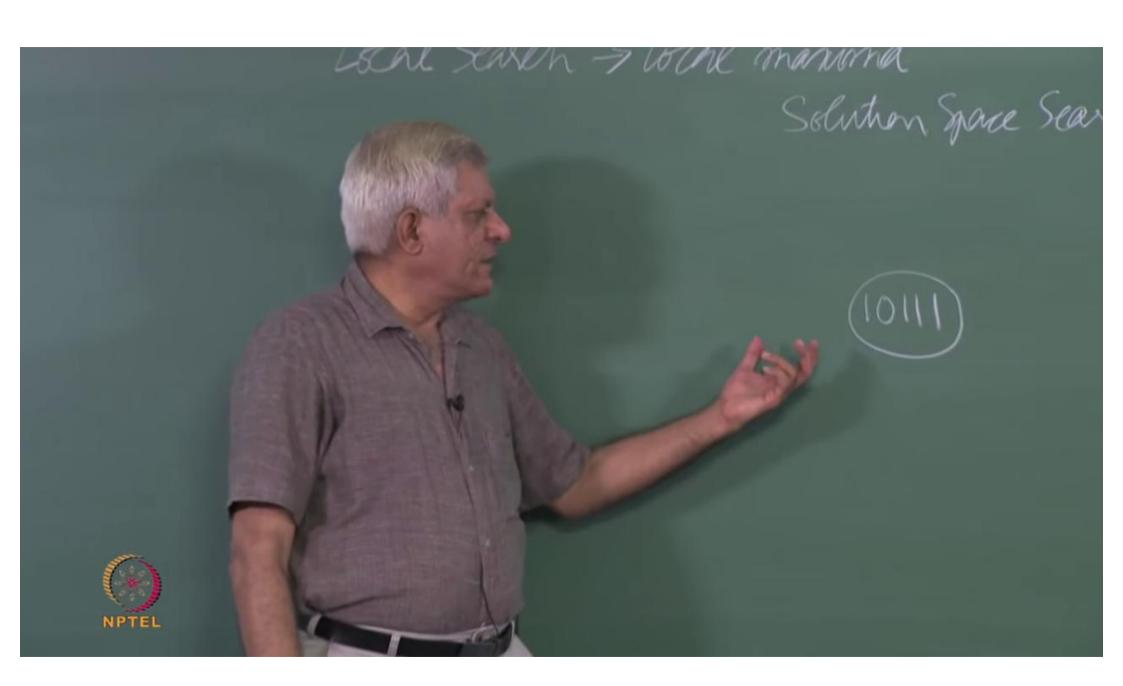
var =  $\{a_1b_1c_1d_1e\}$  $F = (avb) \Lambda (aV \sim Vb)$ n variables -2 States M = 1002106 ~ 130 states



var = {a,b,c,d,e}  $F = (avb) \Lambda (avac Vb)$ n variables clause

## Solvhon Space Search



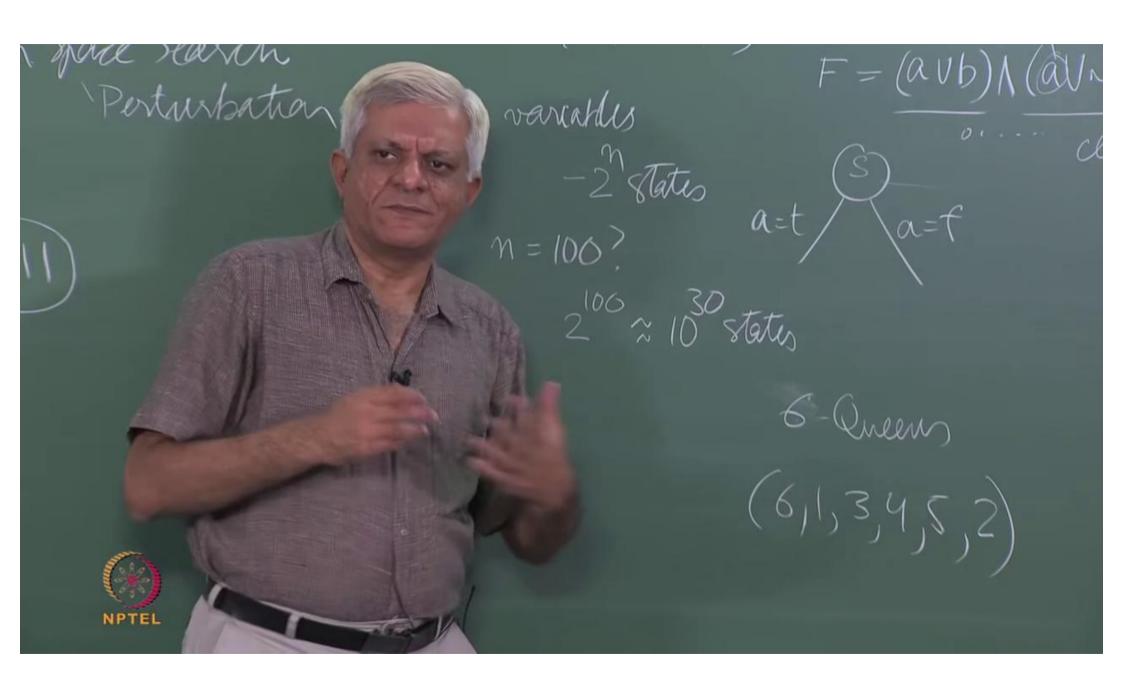


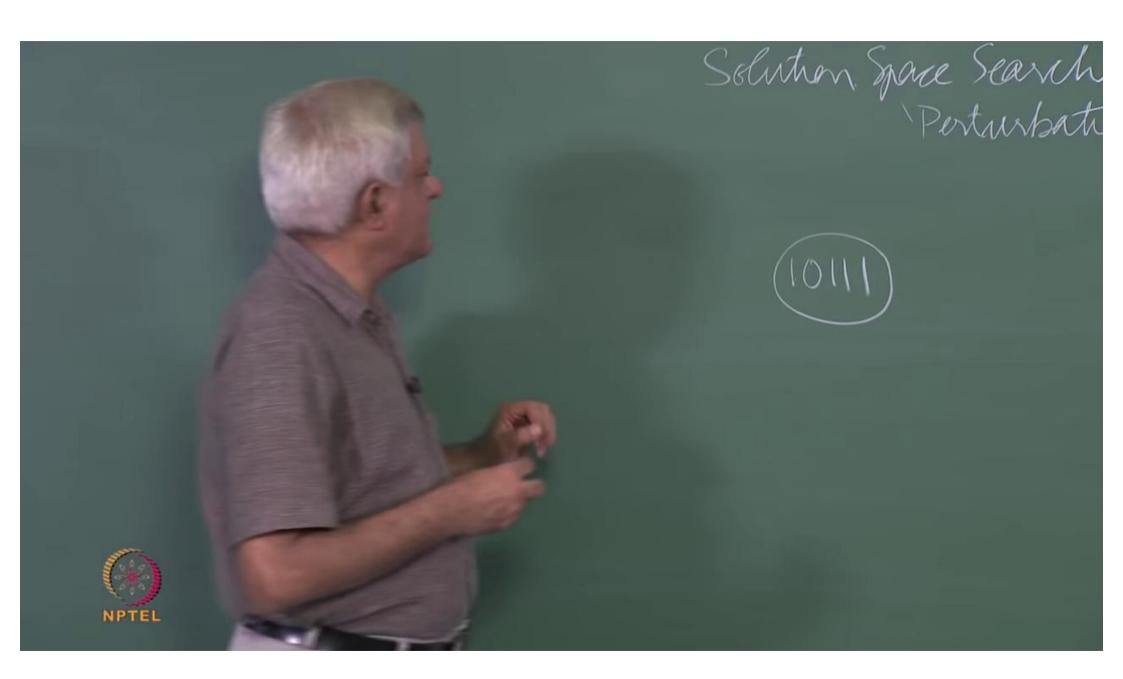
## Solution Space Search Perturbation.

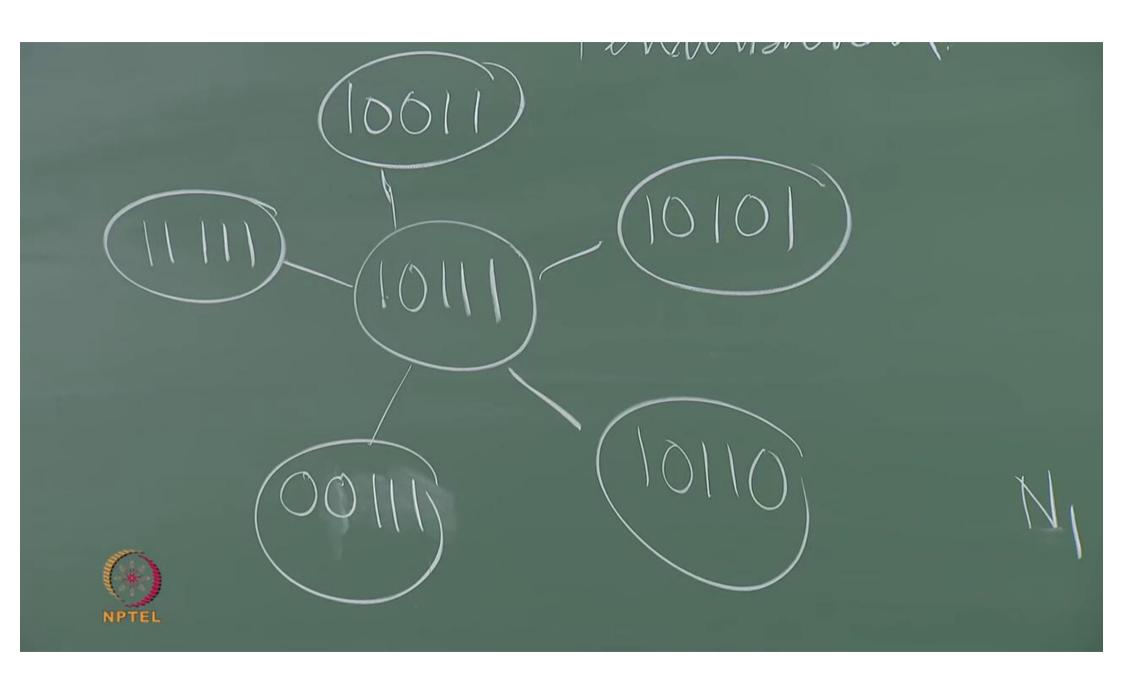


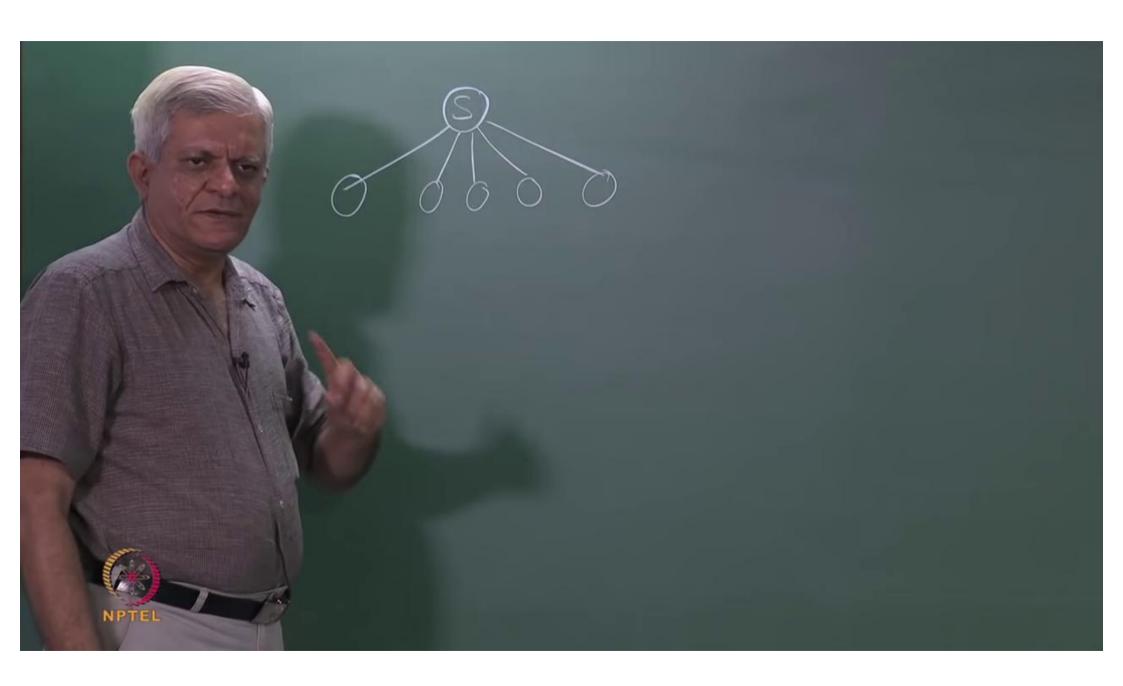


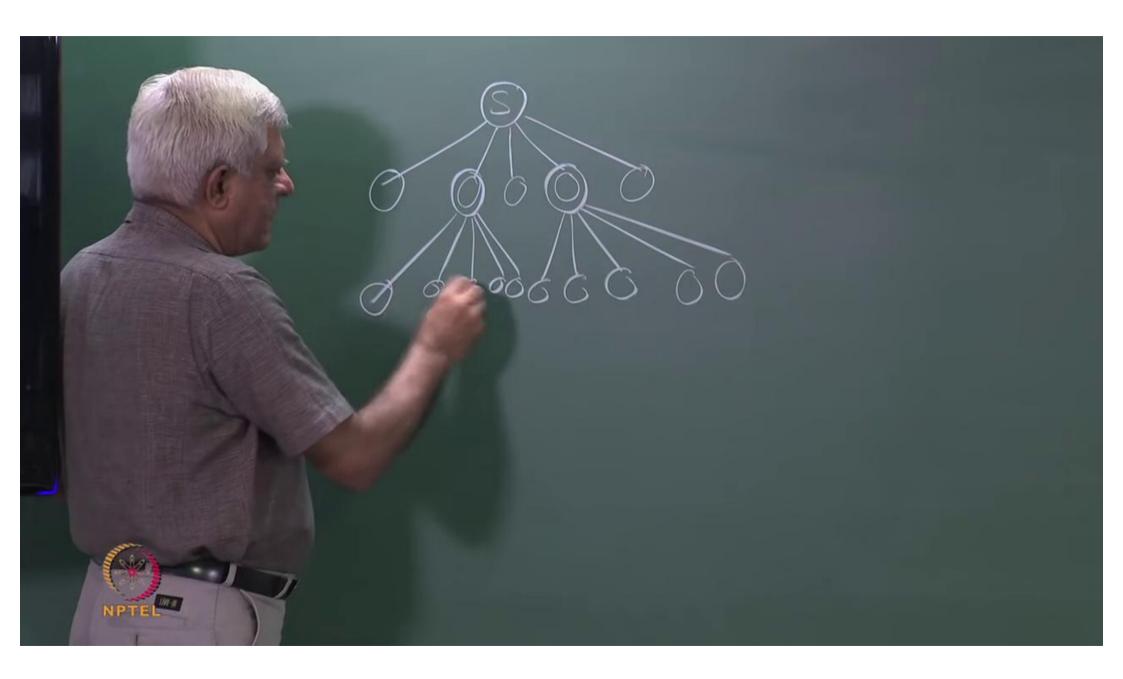
) held NPTEL

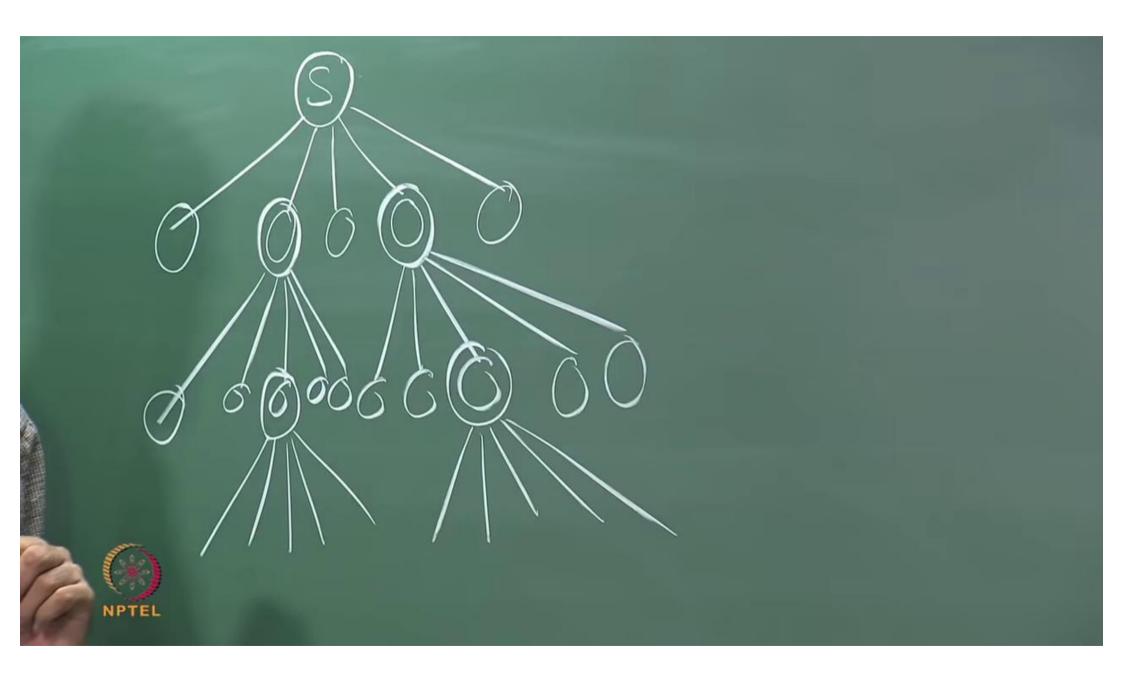




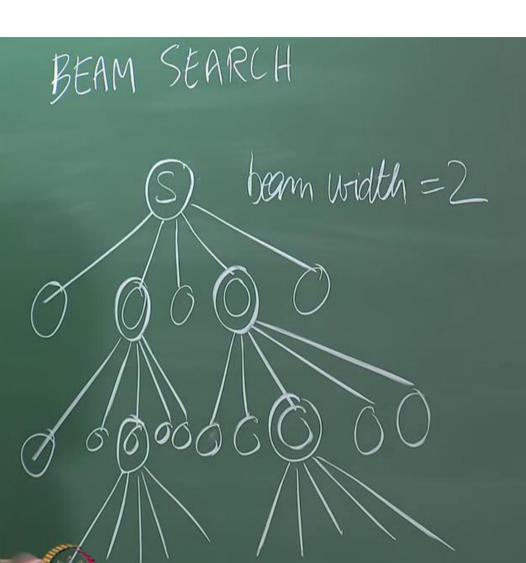




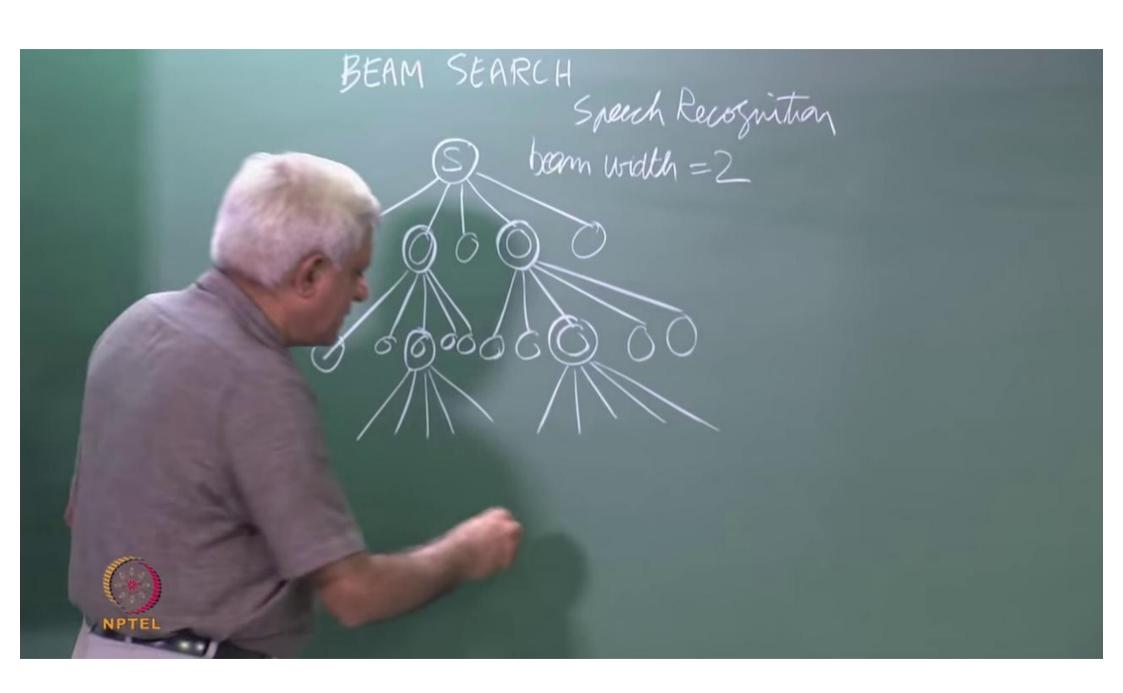






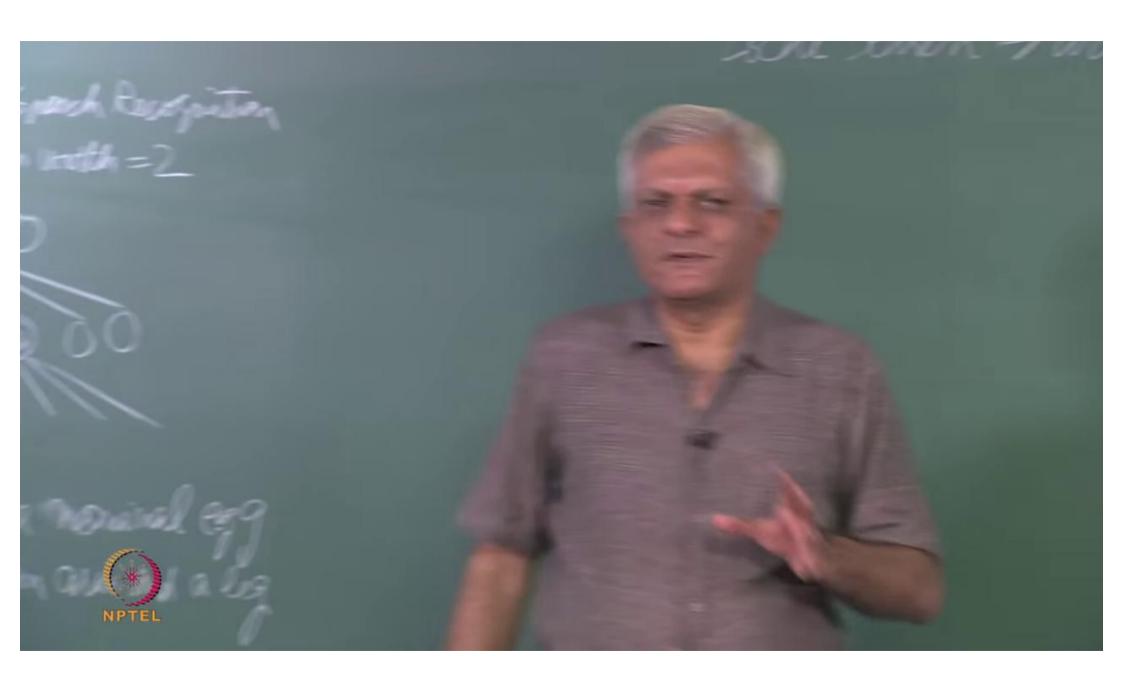


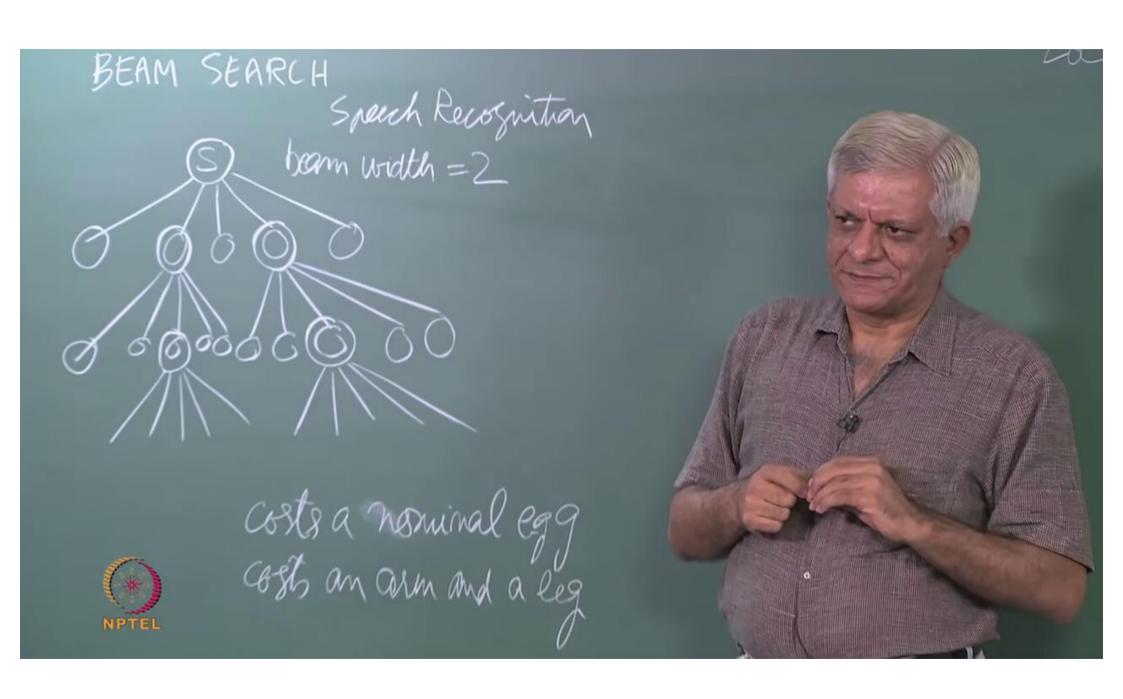
NPTEL

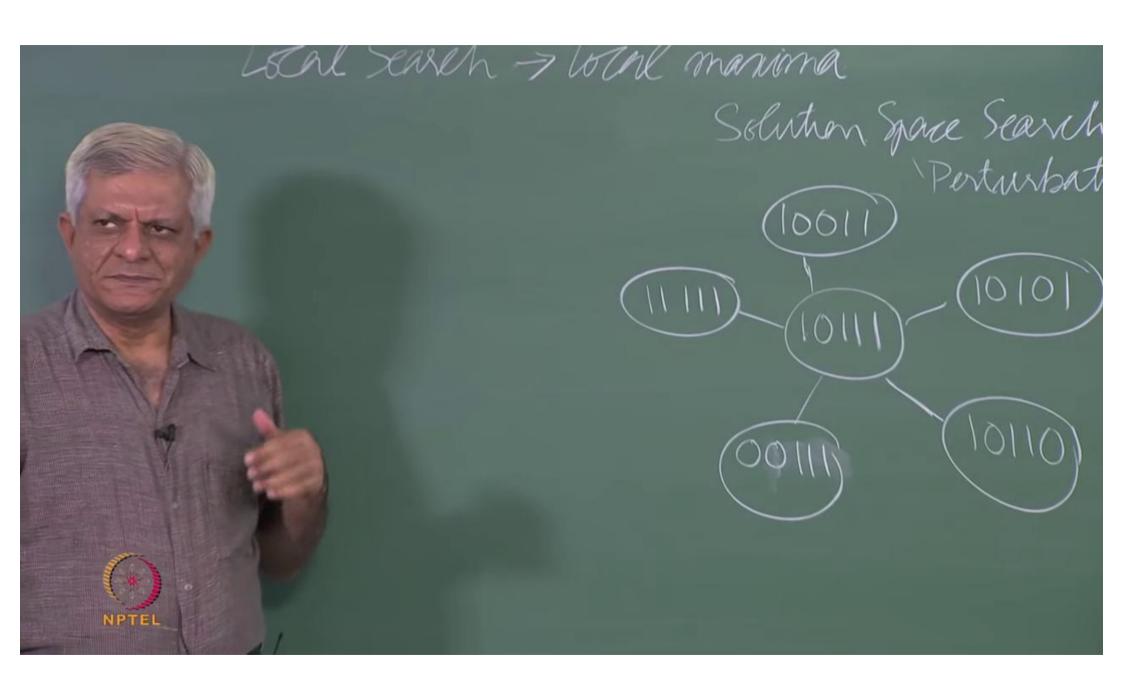


Cost a nominal egg





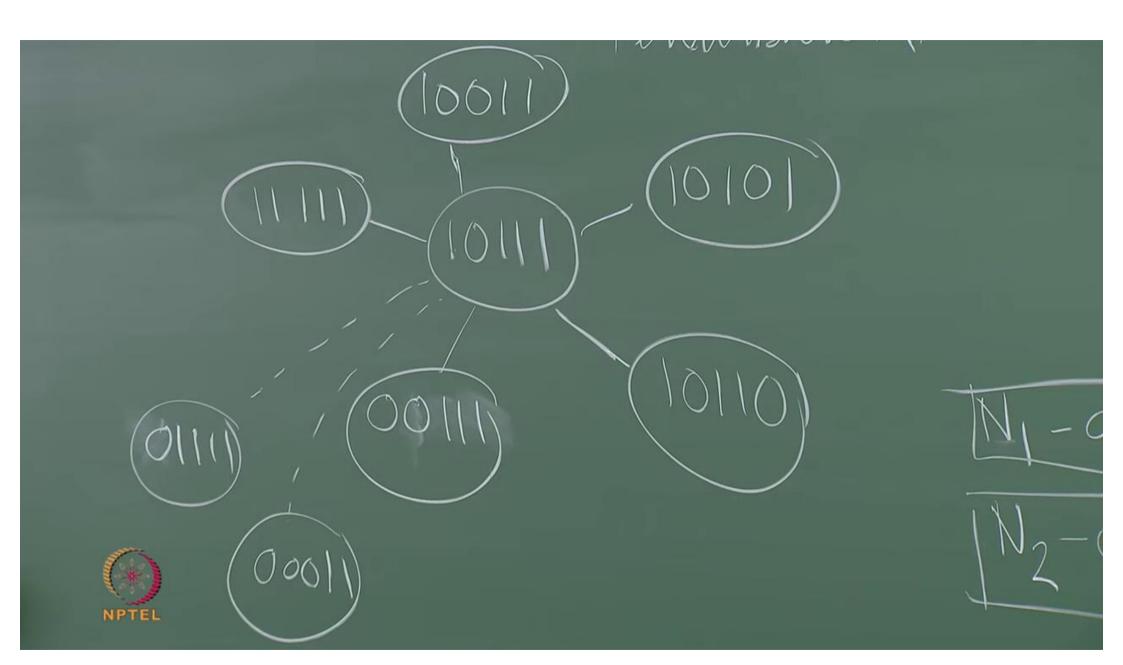




Mi-change 1 but

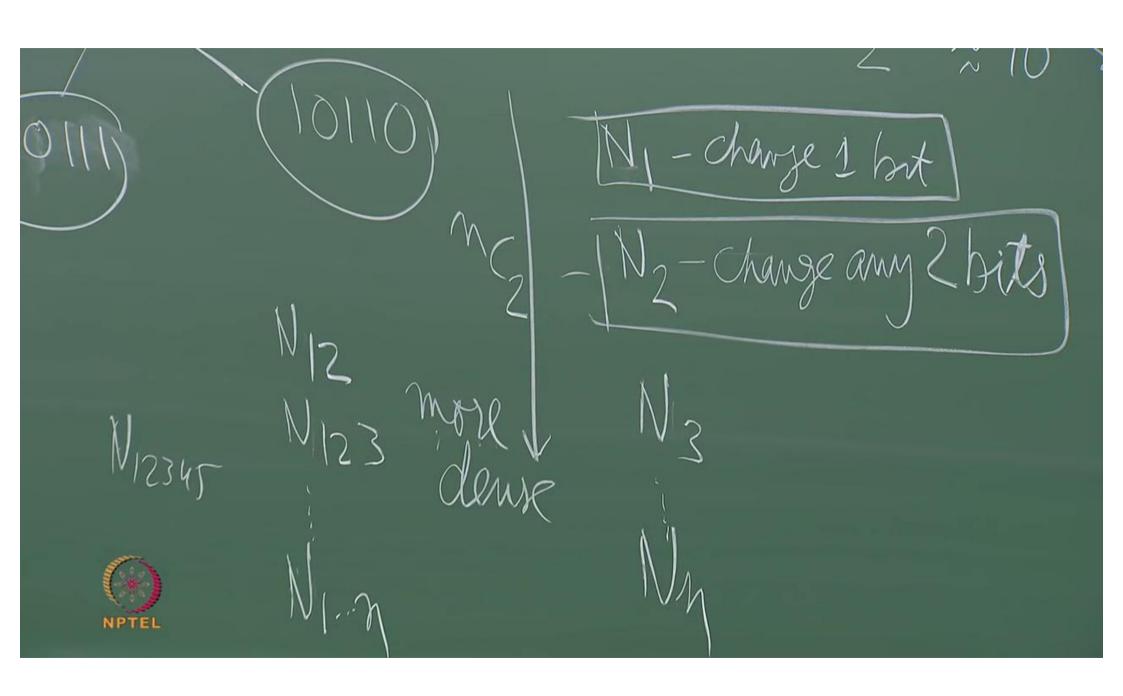
1 N2-Change any 2 bits

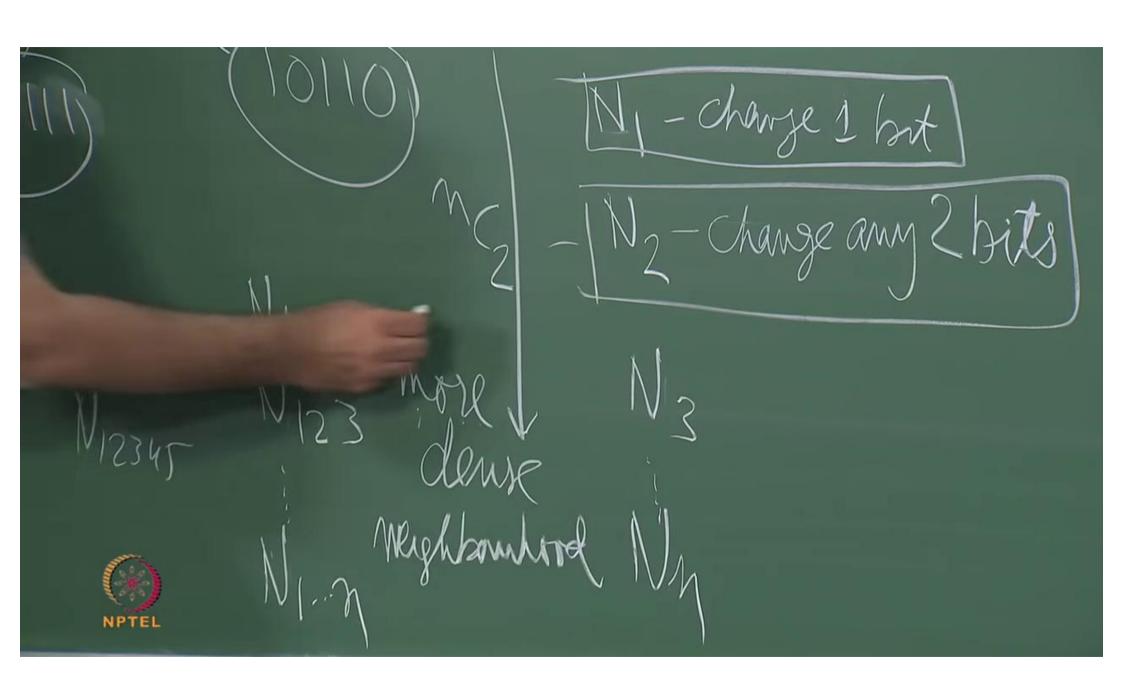


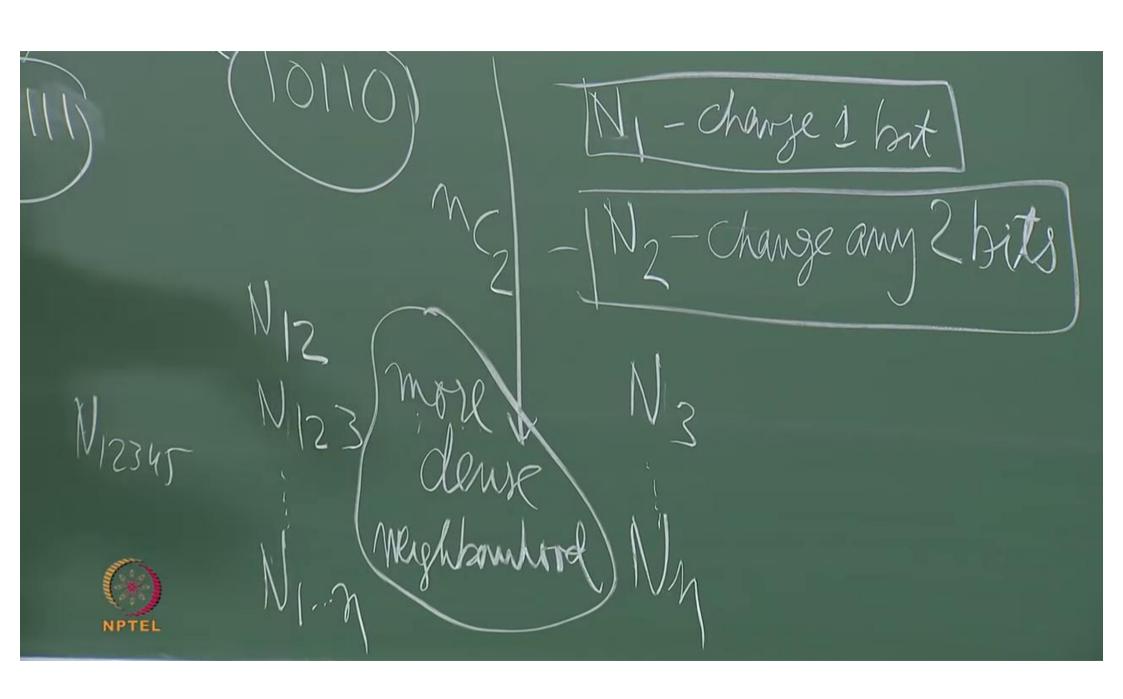


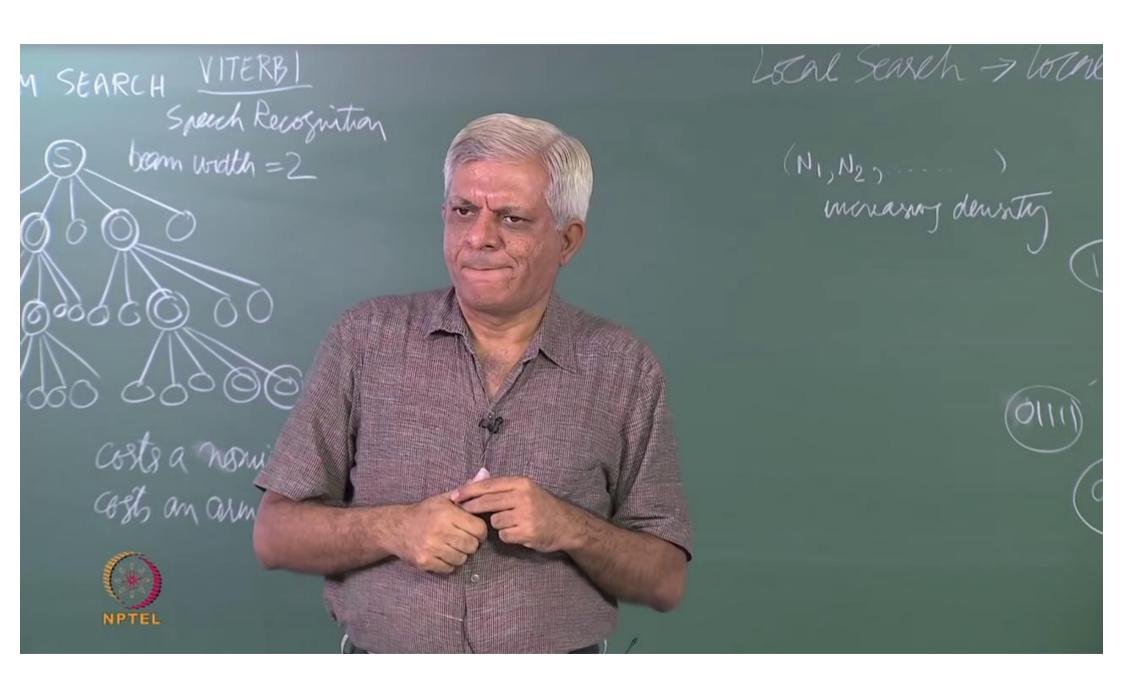
- Change 1 but Change ann 2 hits

NPTEL

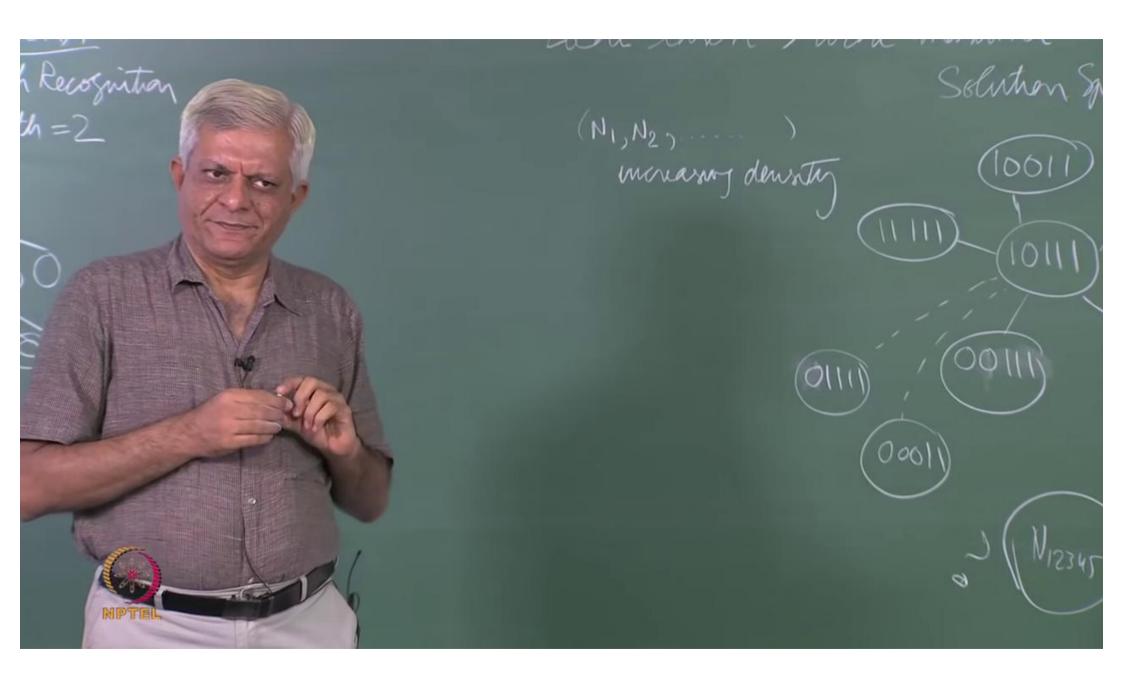


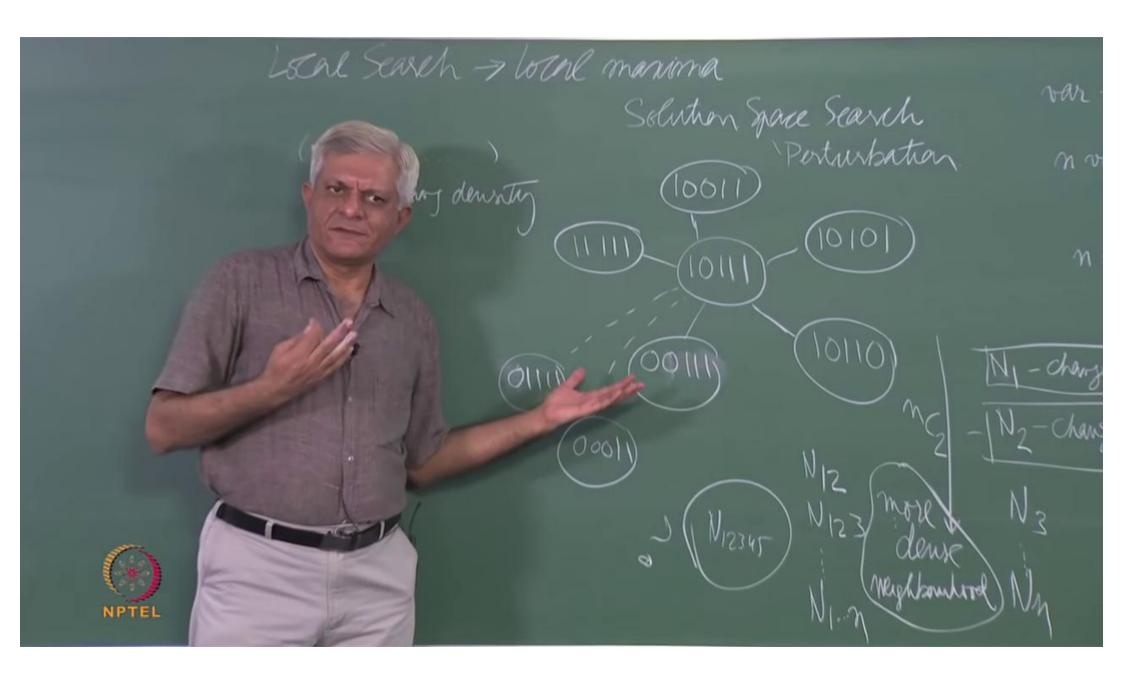


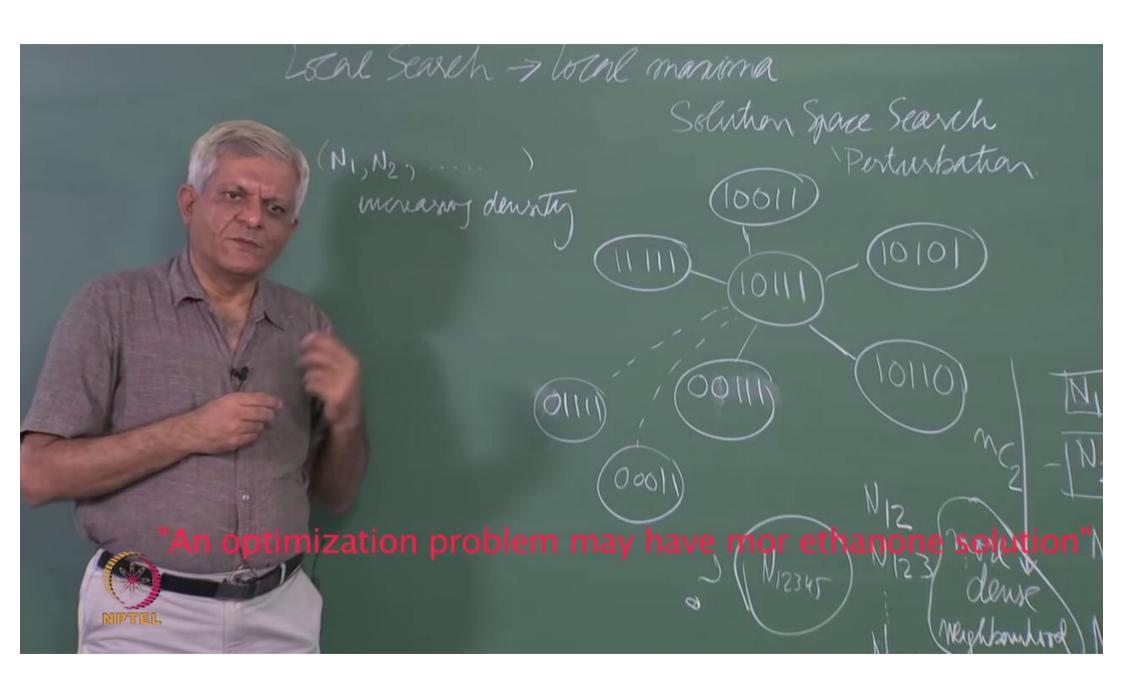


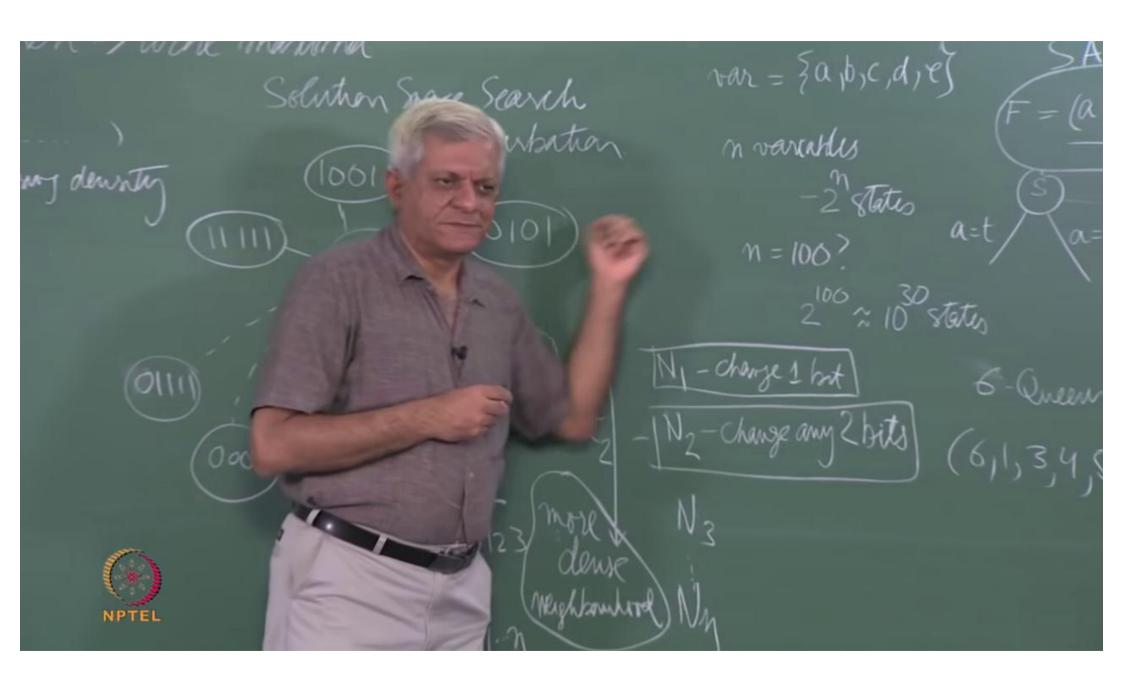


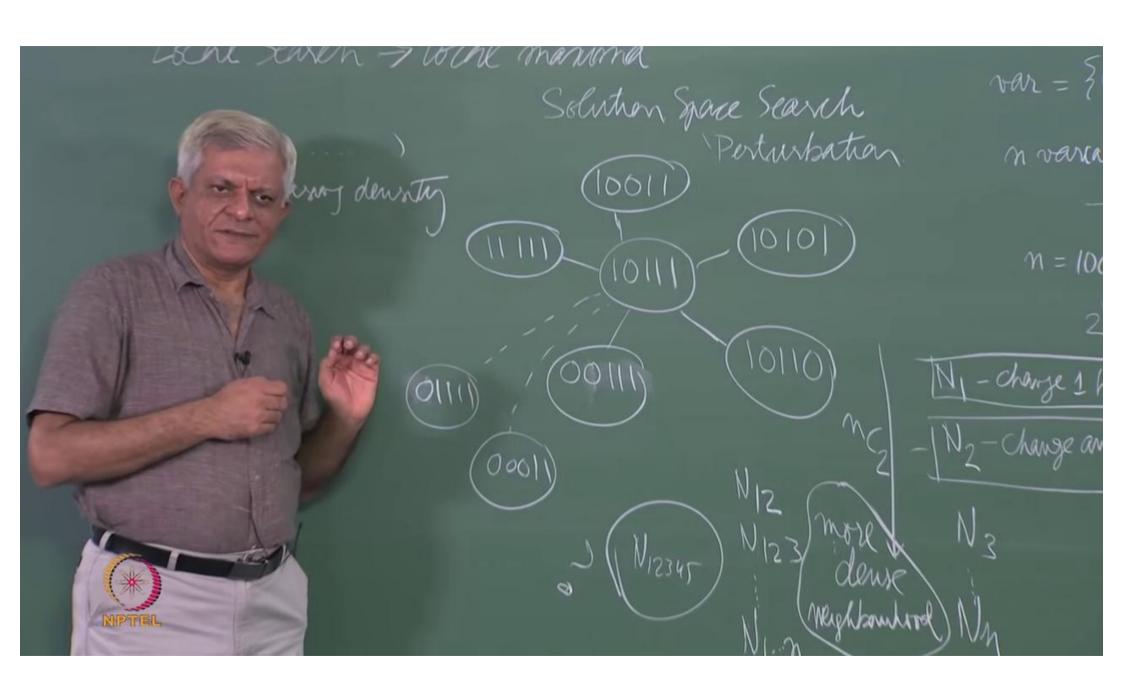
 $F = (avb) \Lambda (avacub)$ Clause act

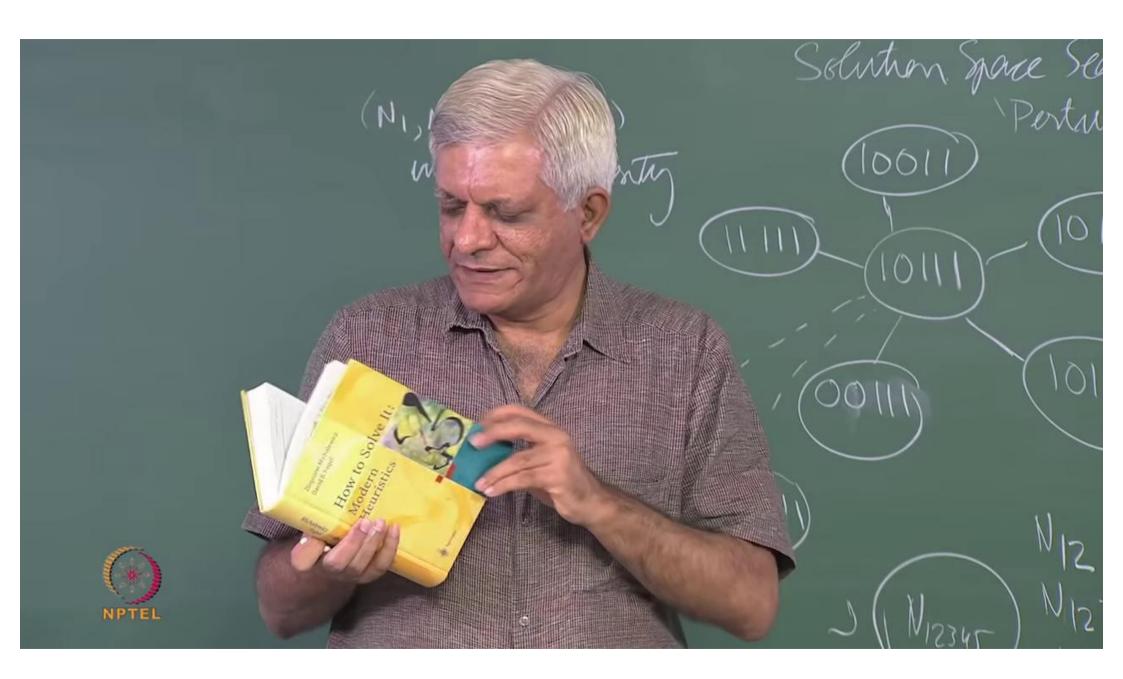


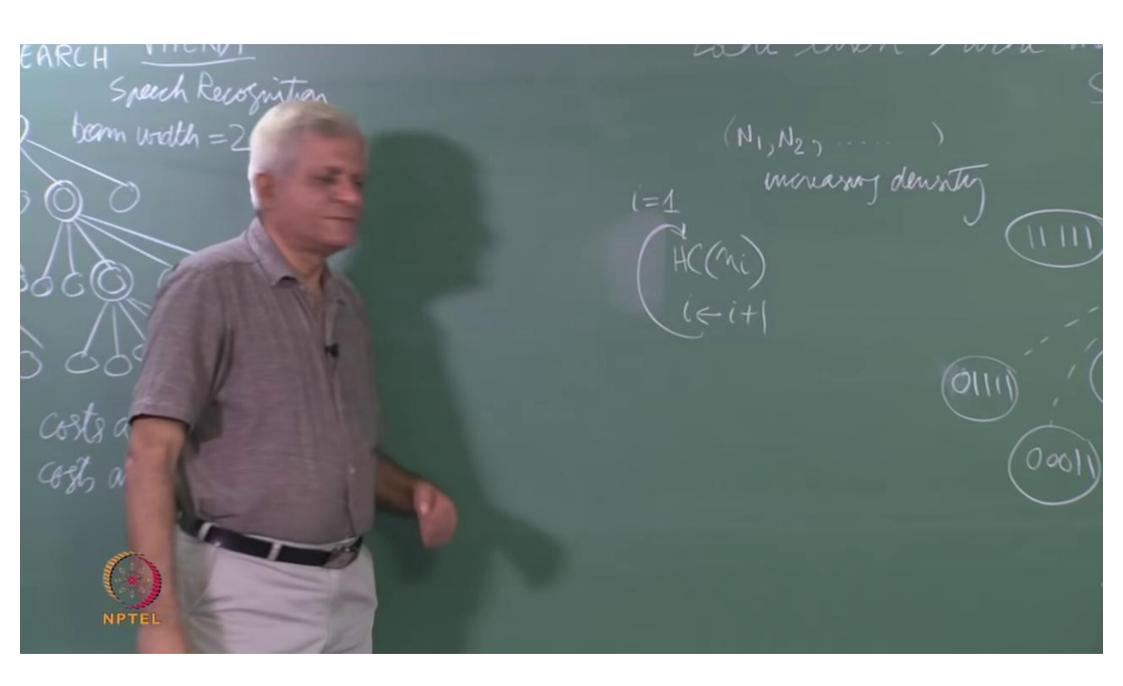




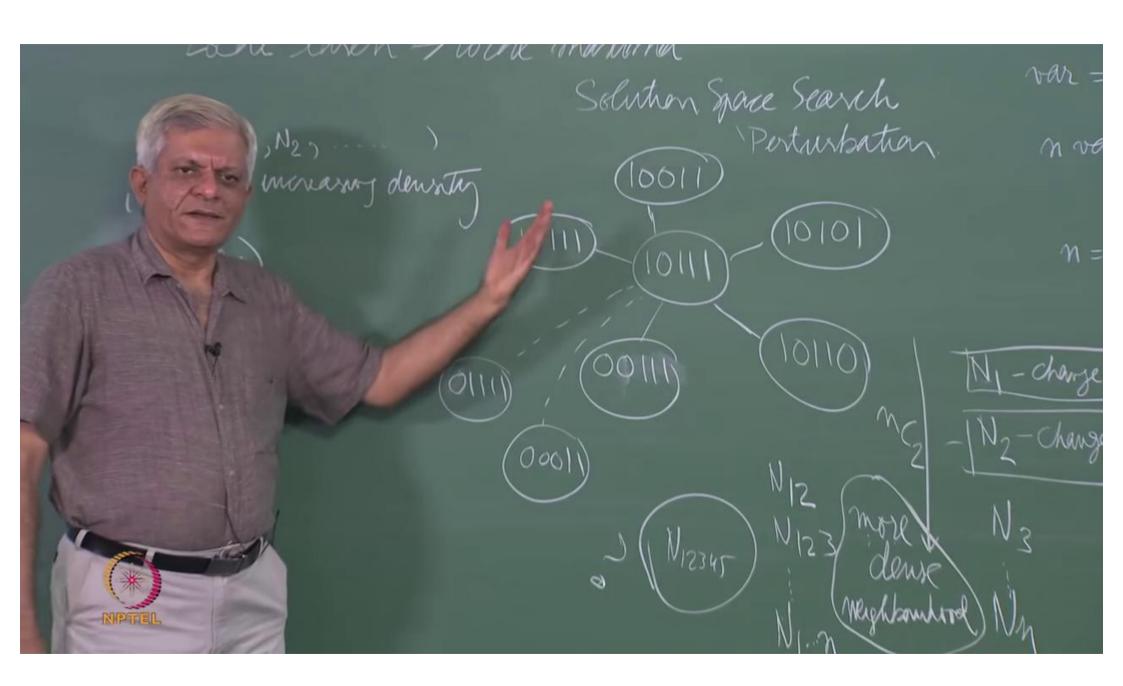








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