Video Lectures On Artificial Intelligence

Lecture 17
Population Based Methods II

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Department of Computer Science
IIT Madras

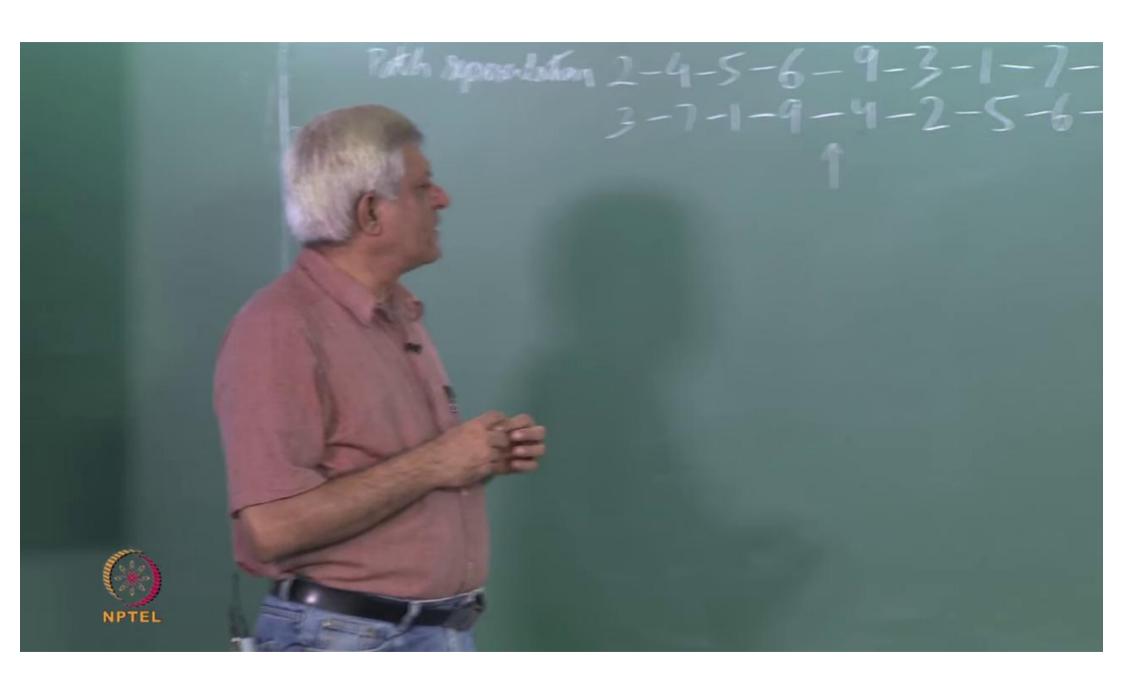


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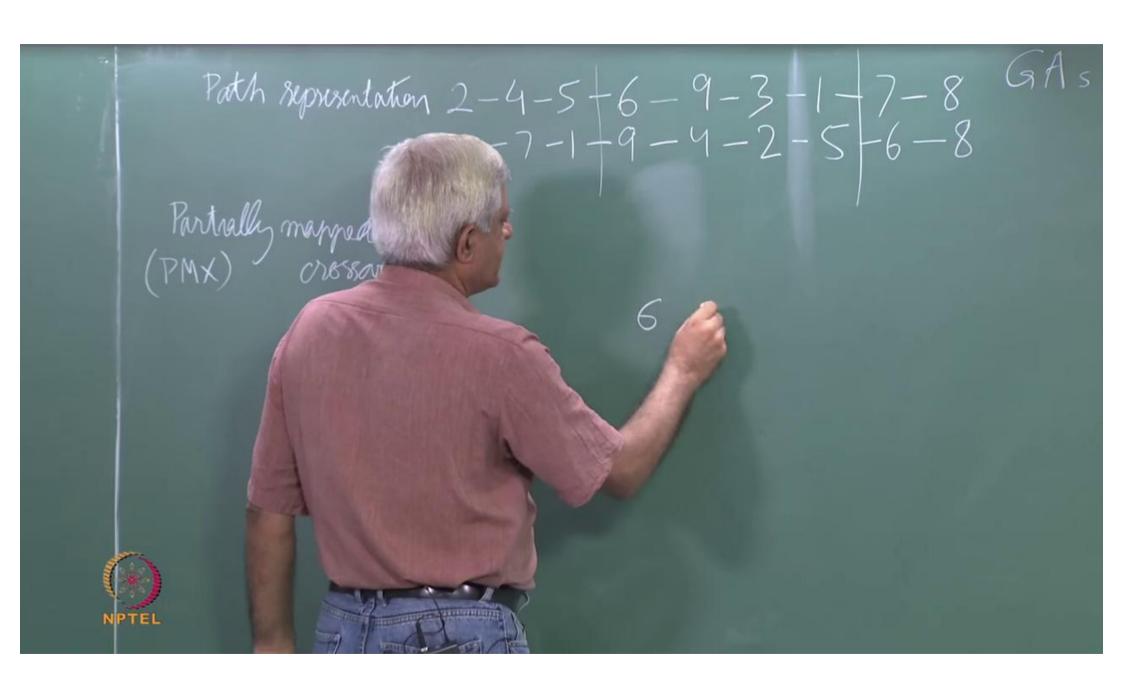


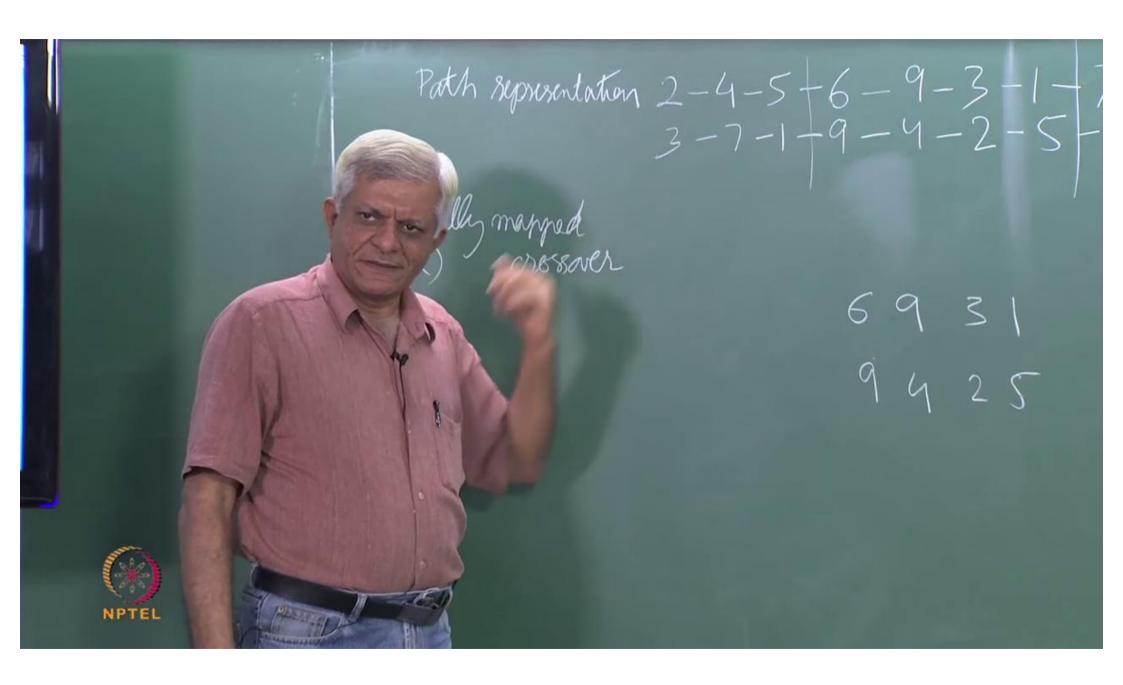
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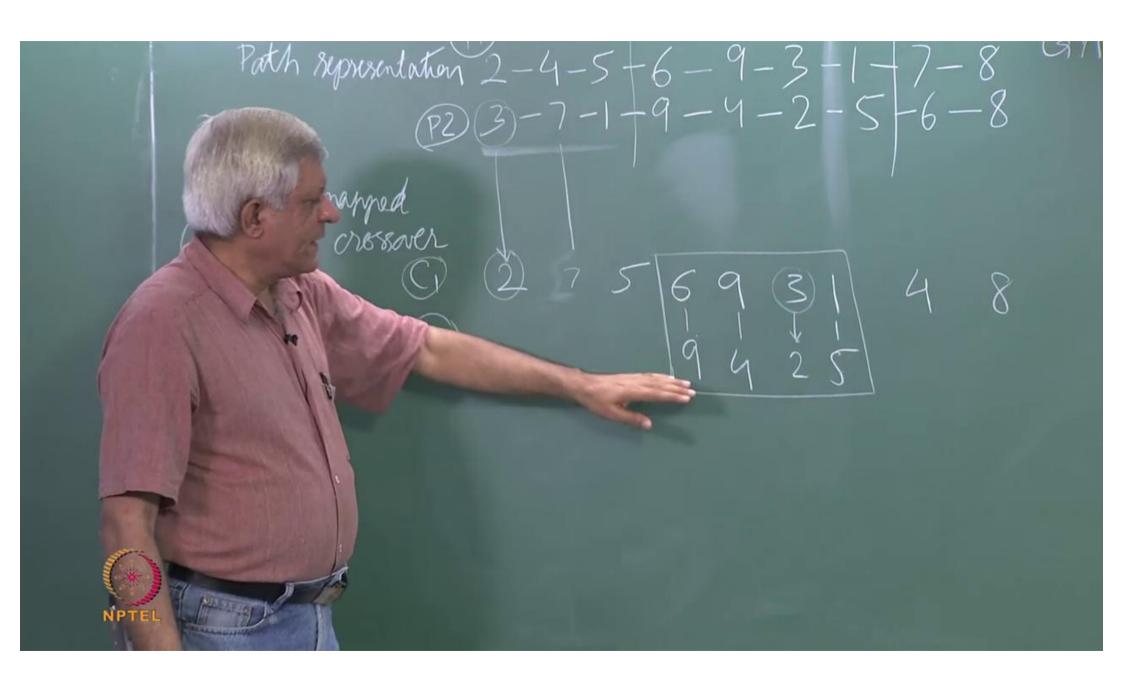


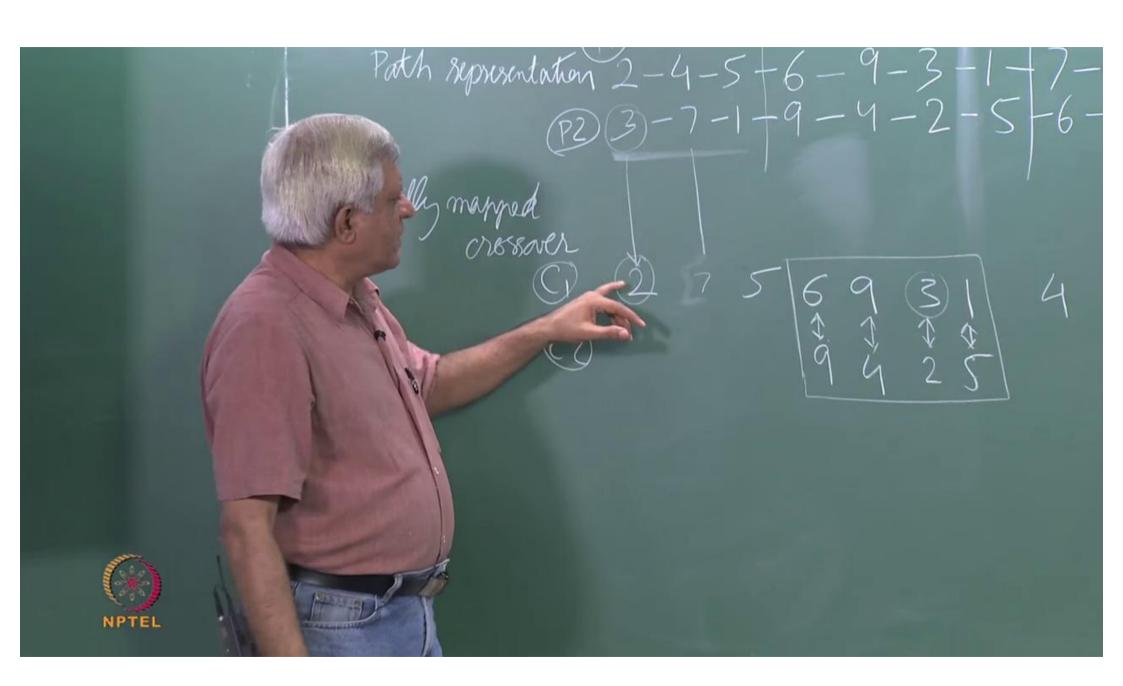




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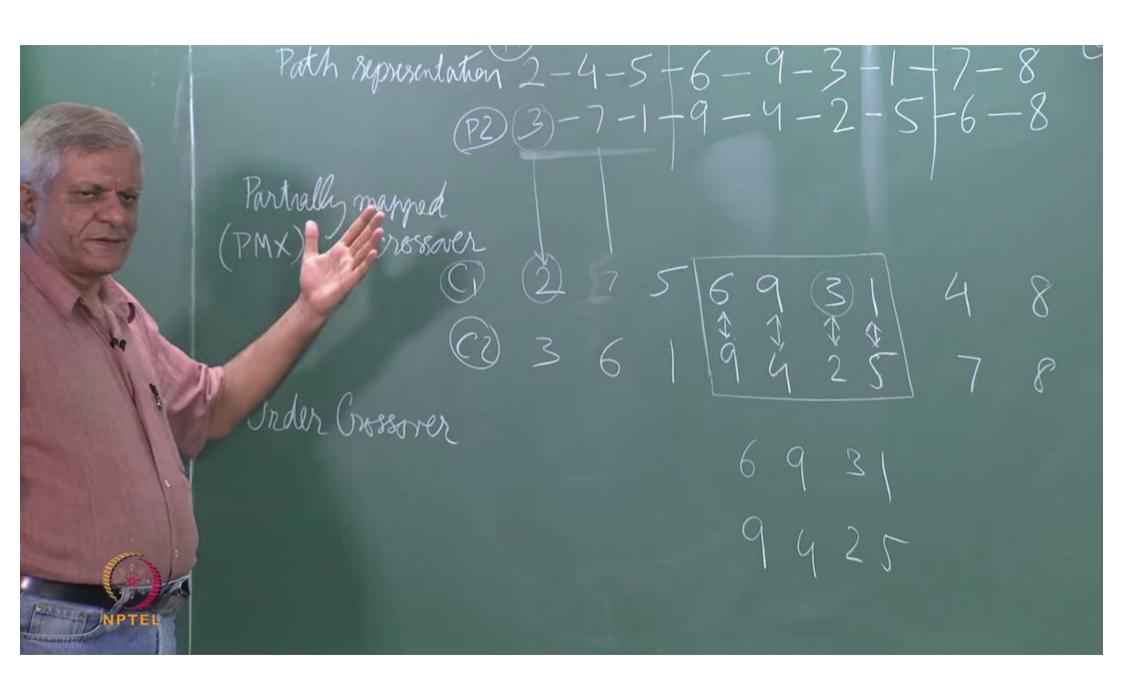


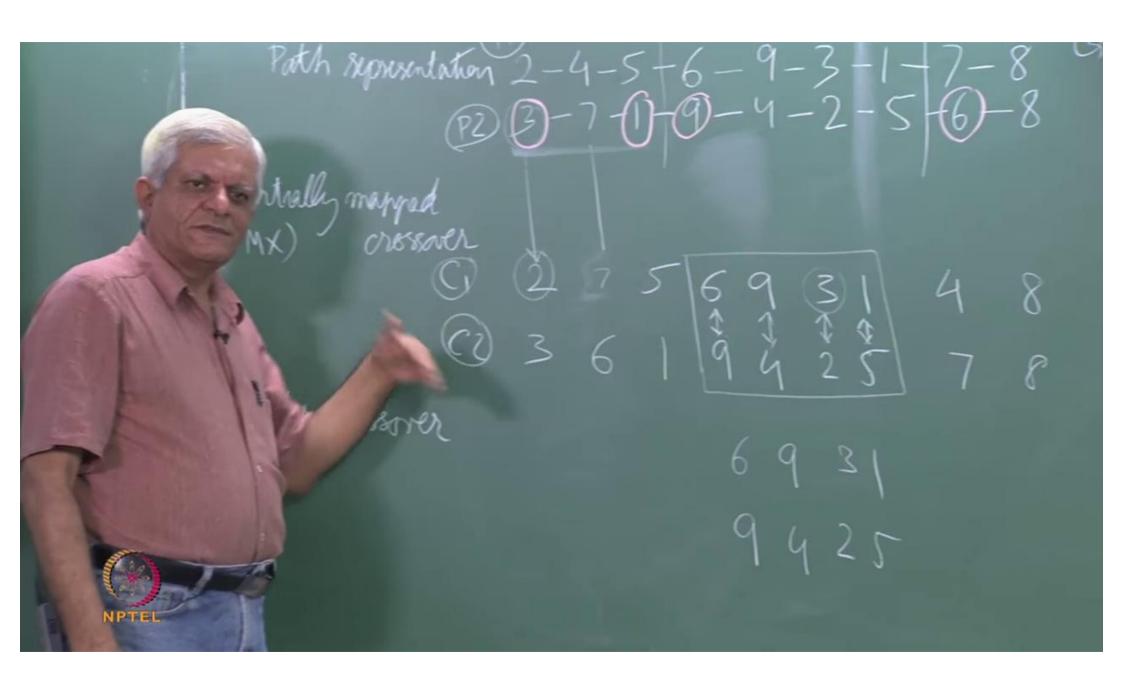




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ORDINAL REPRESENTATION



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REPRESENTATION



ADJACENCY

REPRESENTATION



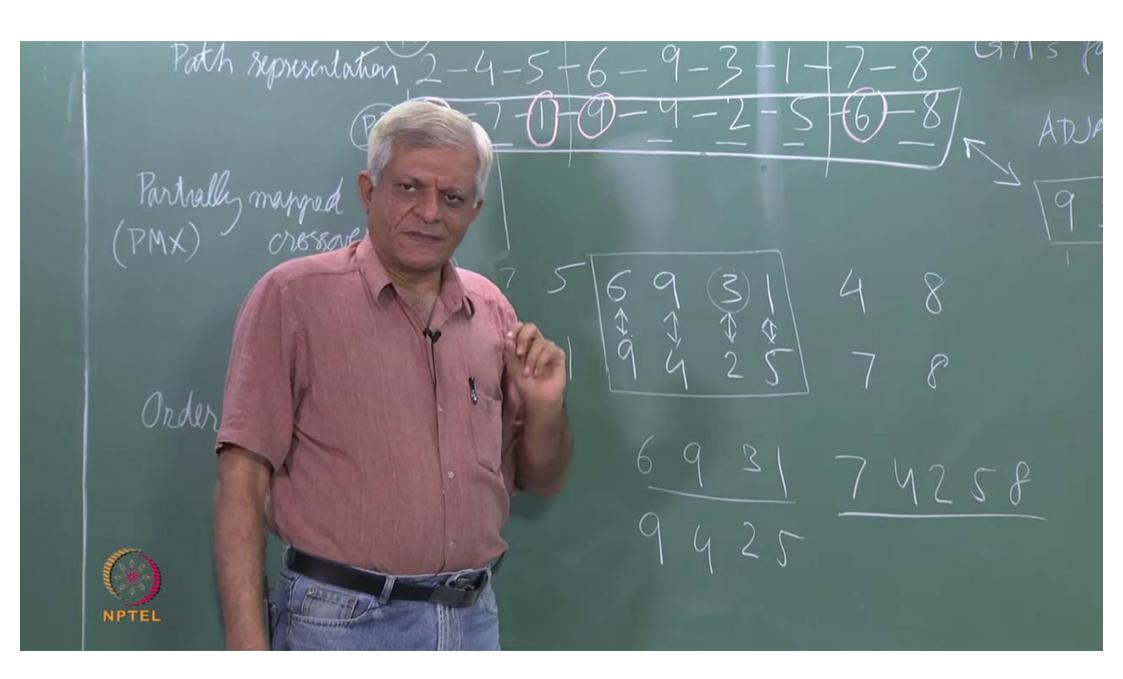
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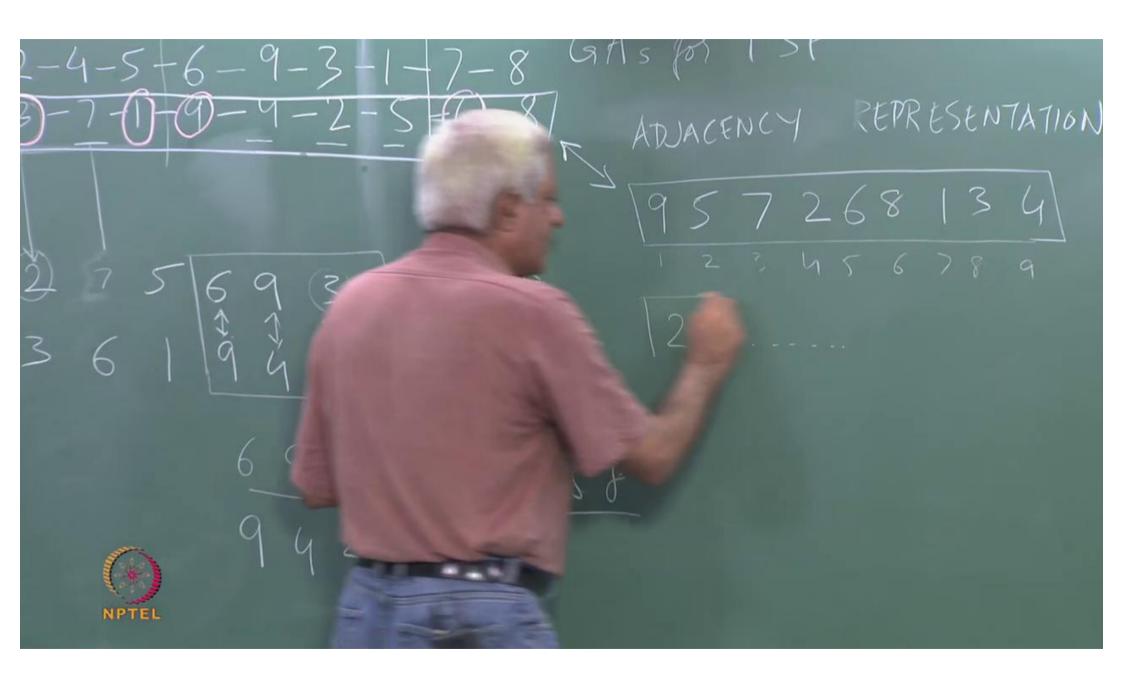
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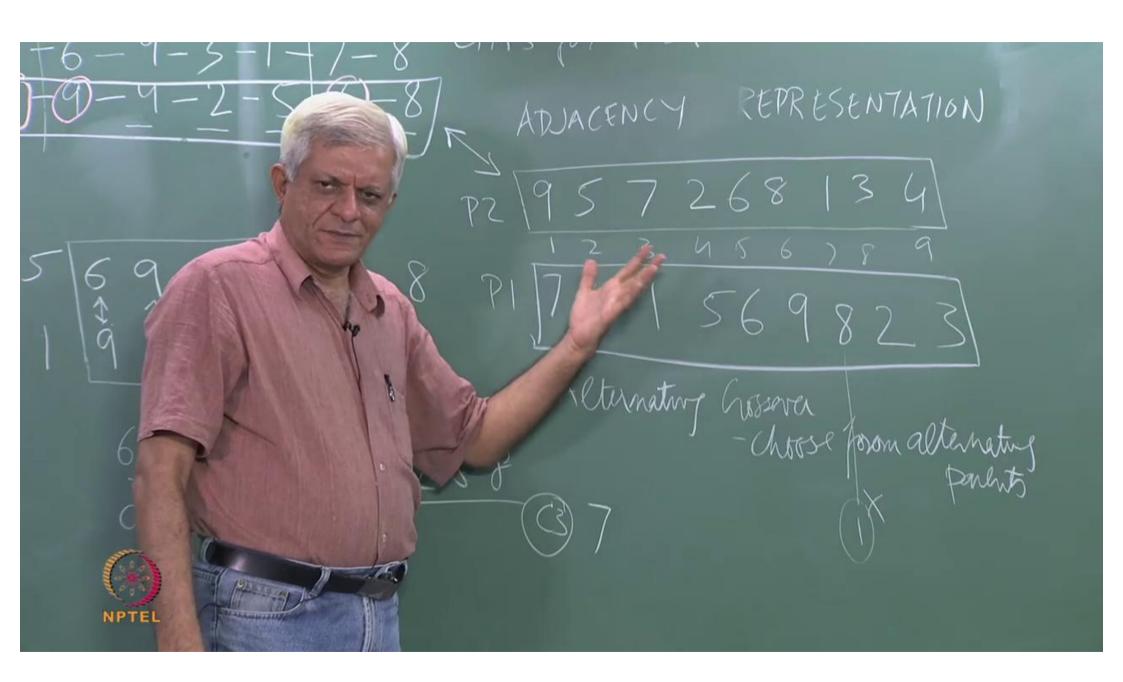


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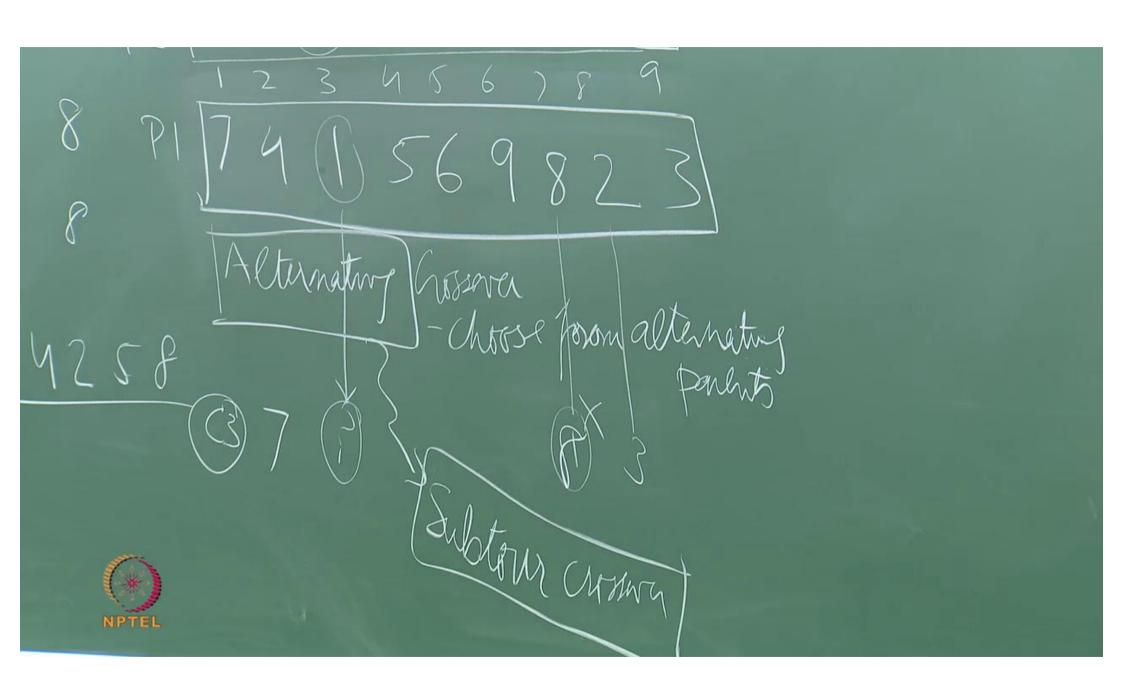
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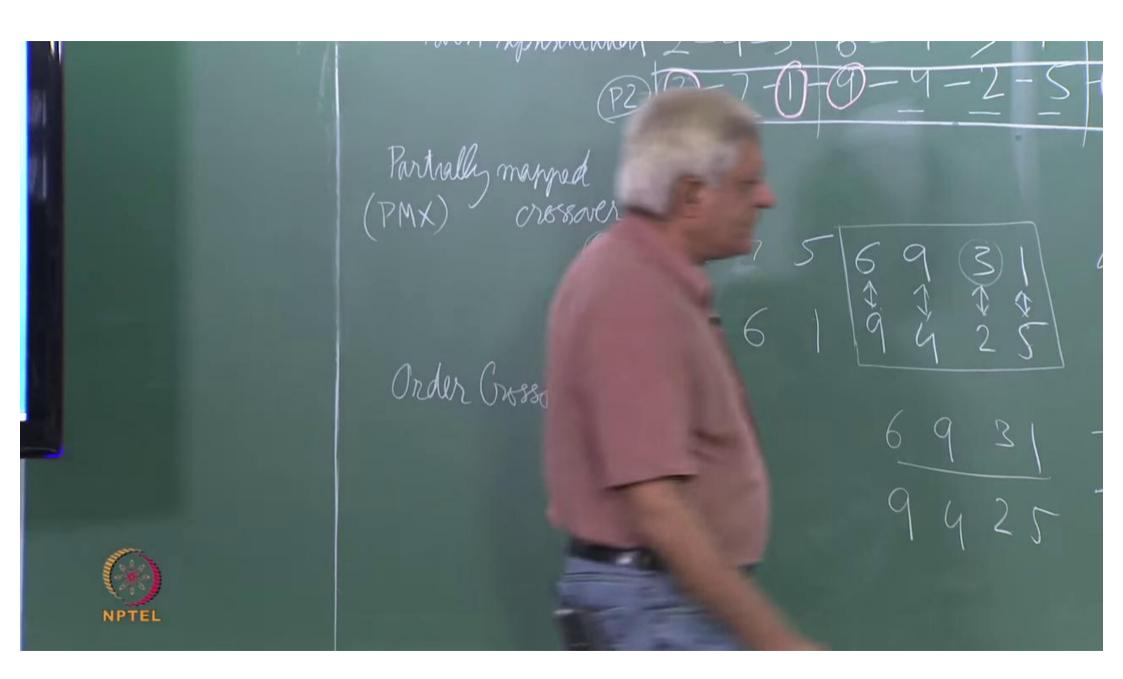


Alternatury Crossover Joseph alternatury Choose Joseph alternatury parhits

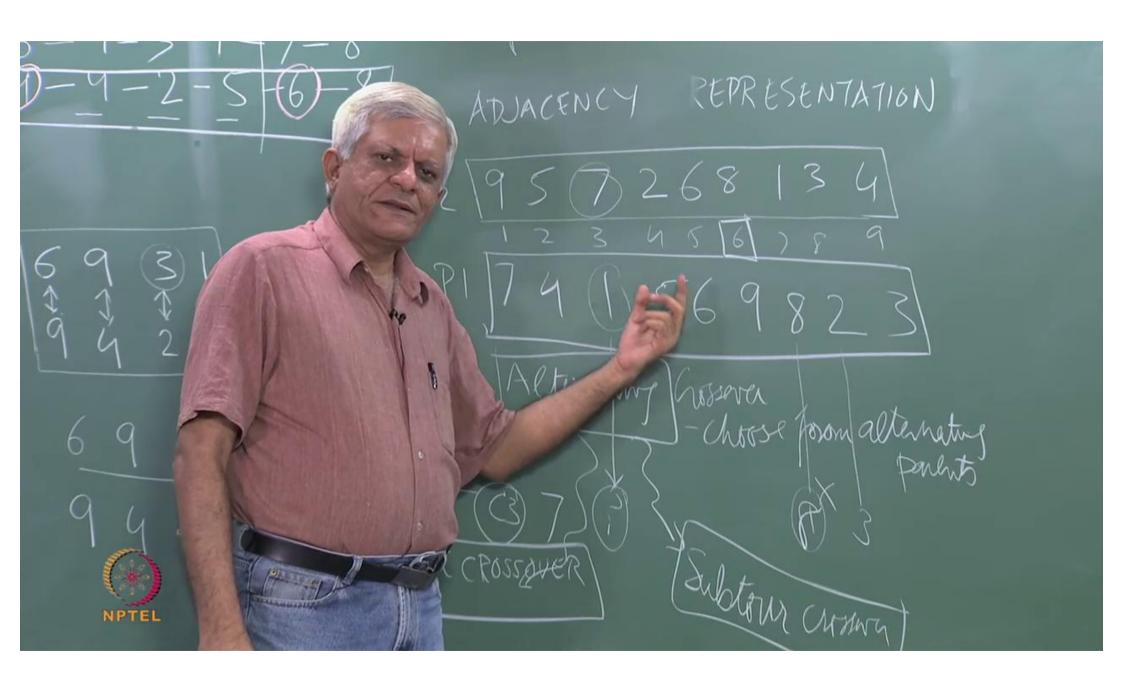
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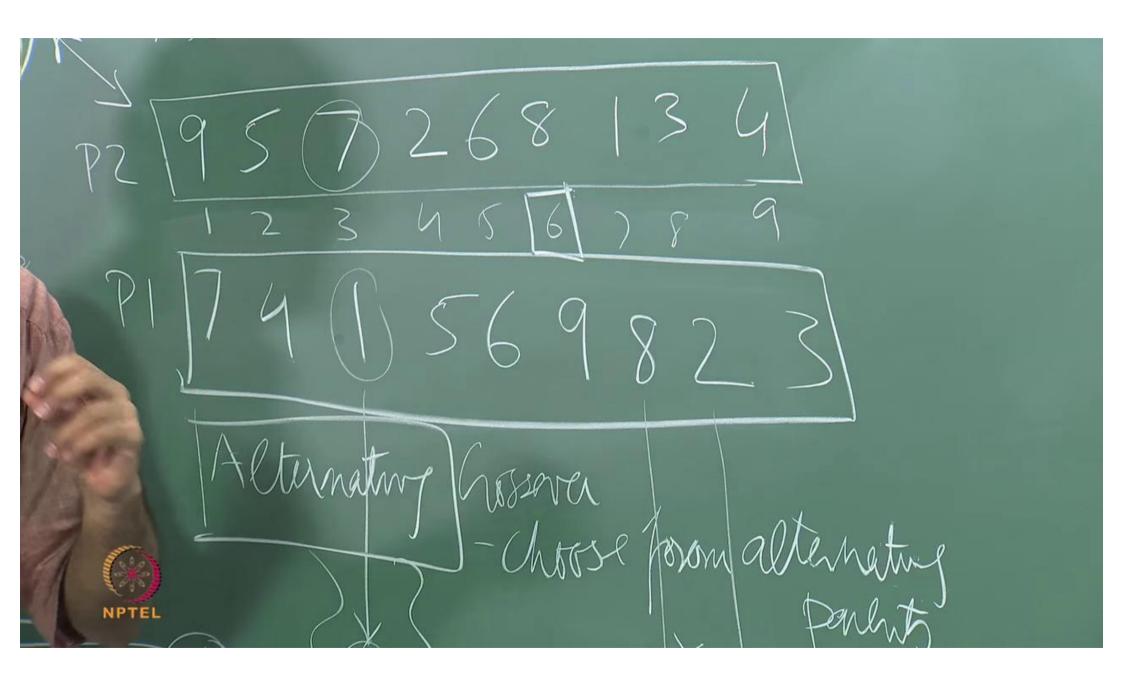
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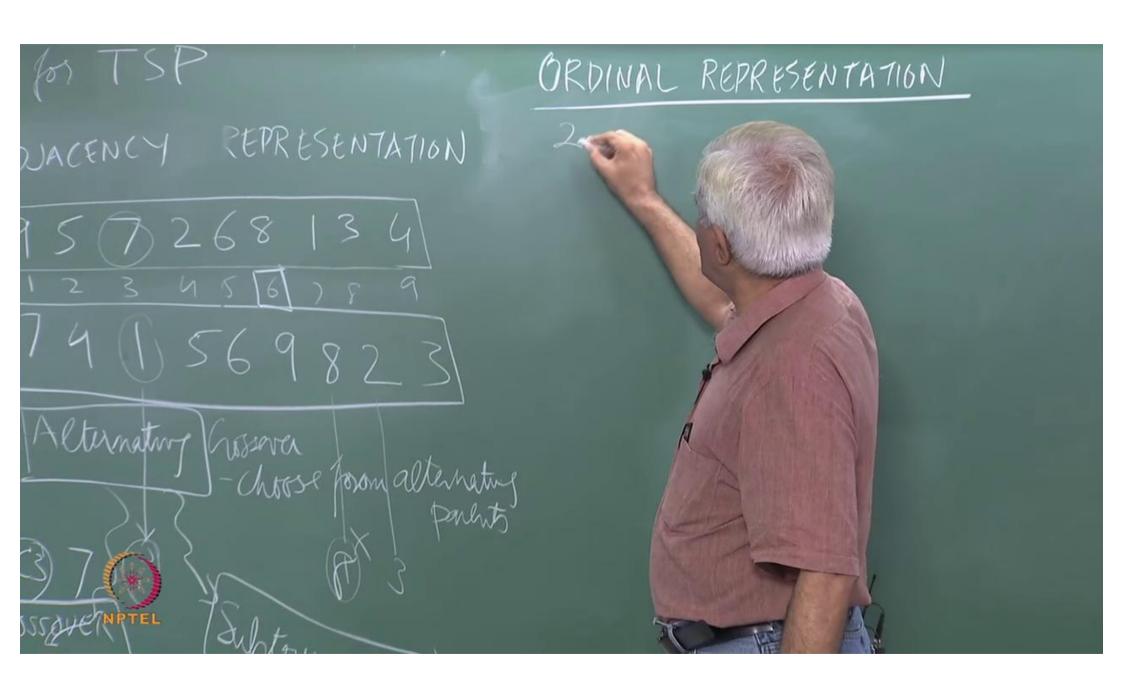




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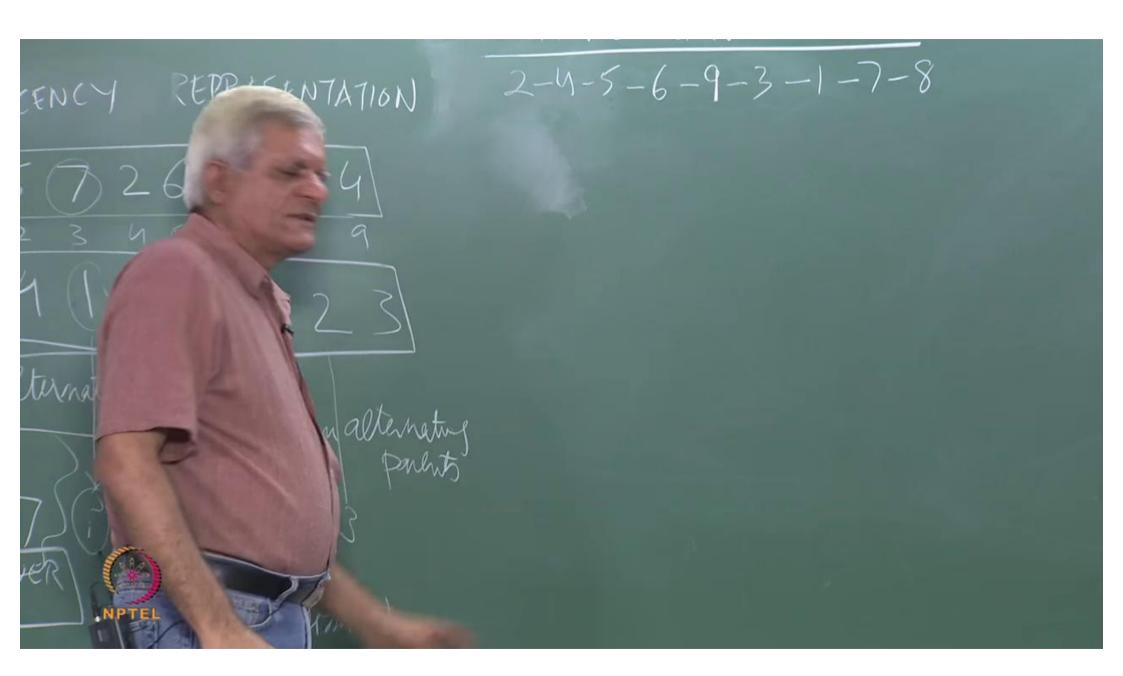






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ORDINAL REPRESENTATION 2-4-5-6-9-3-1-7-8

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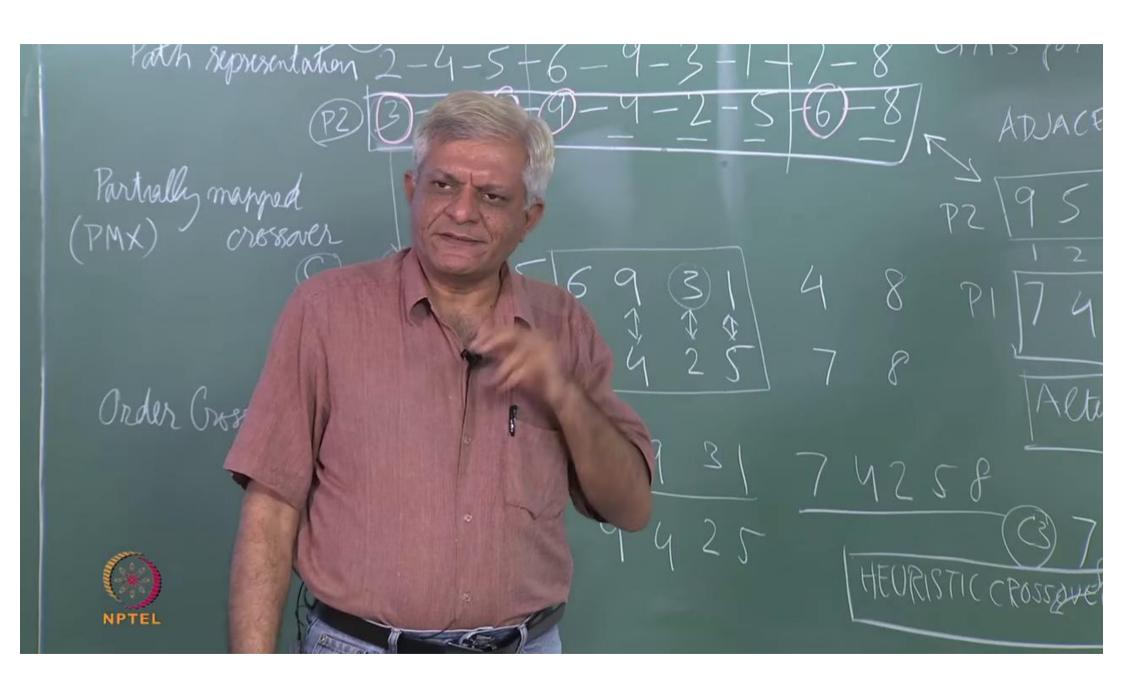


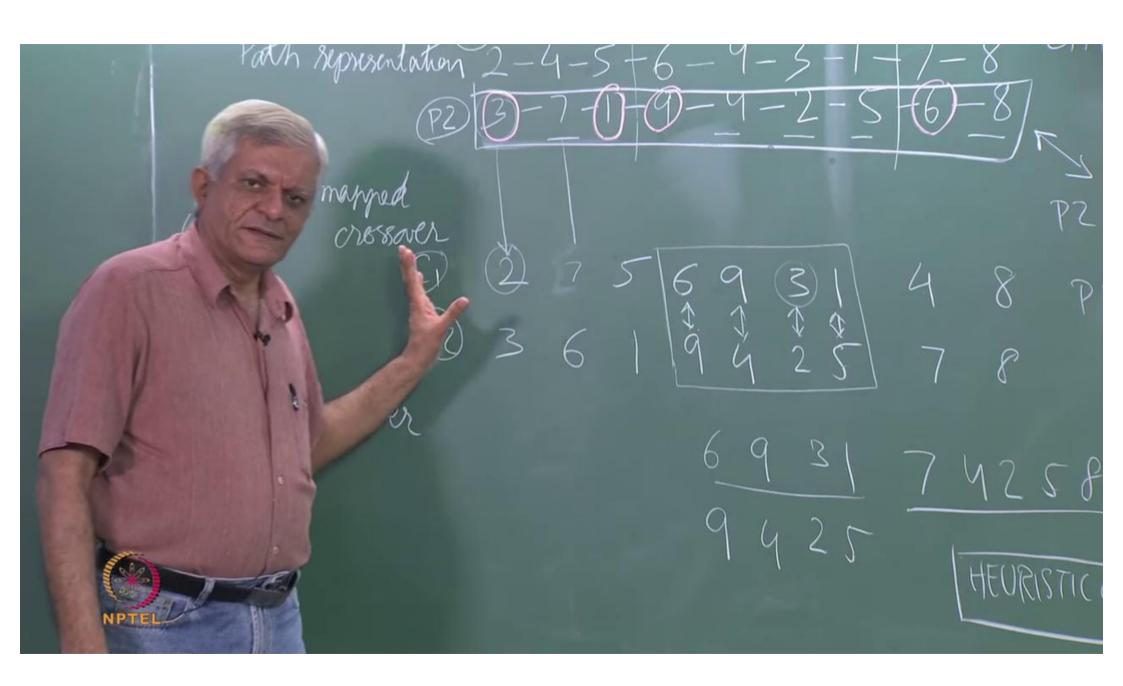
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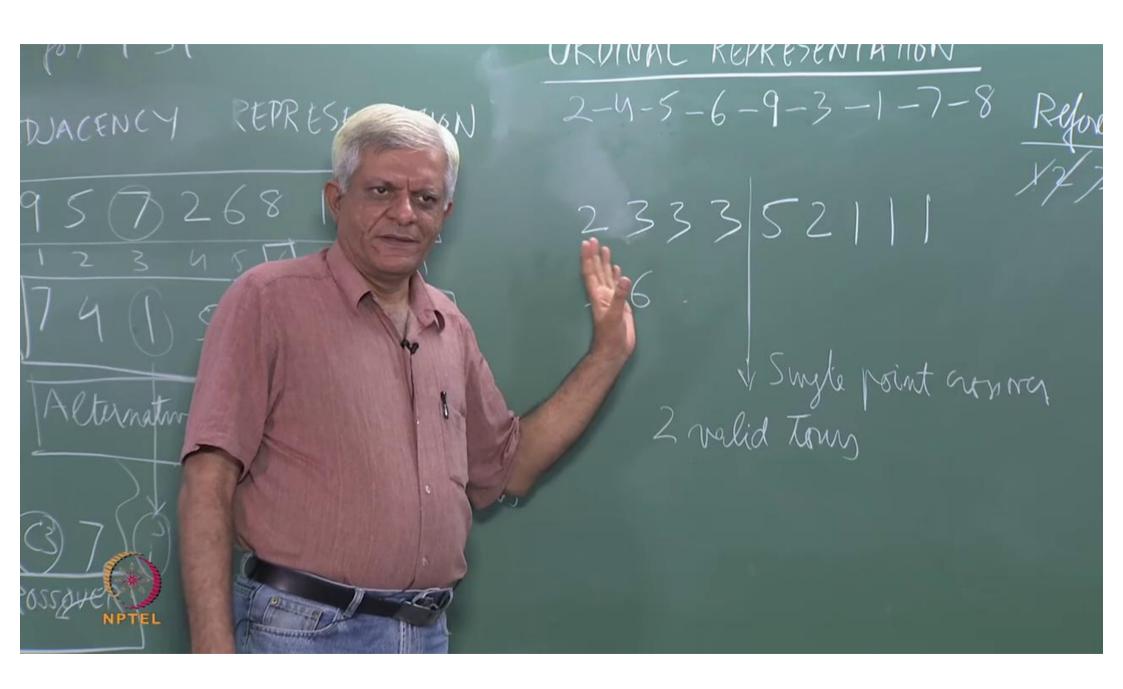
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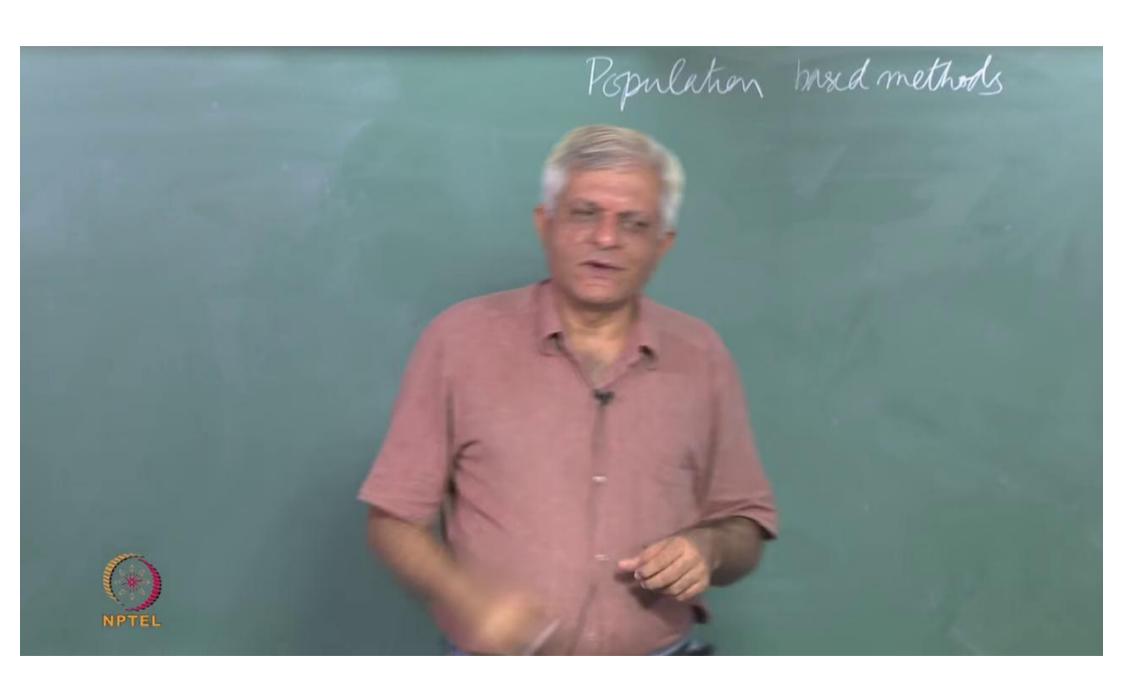
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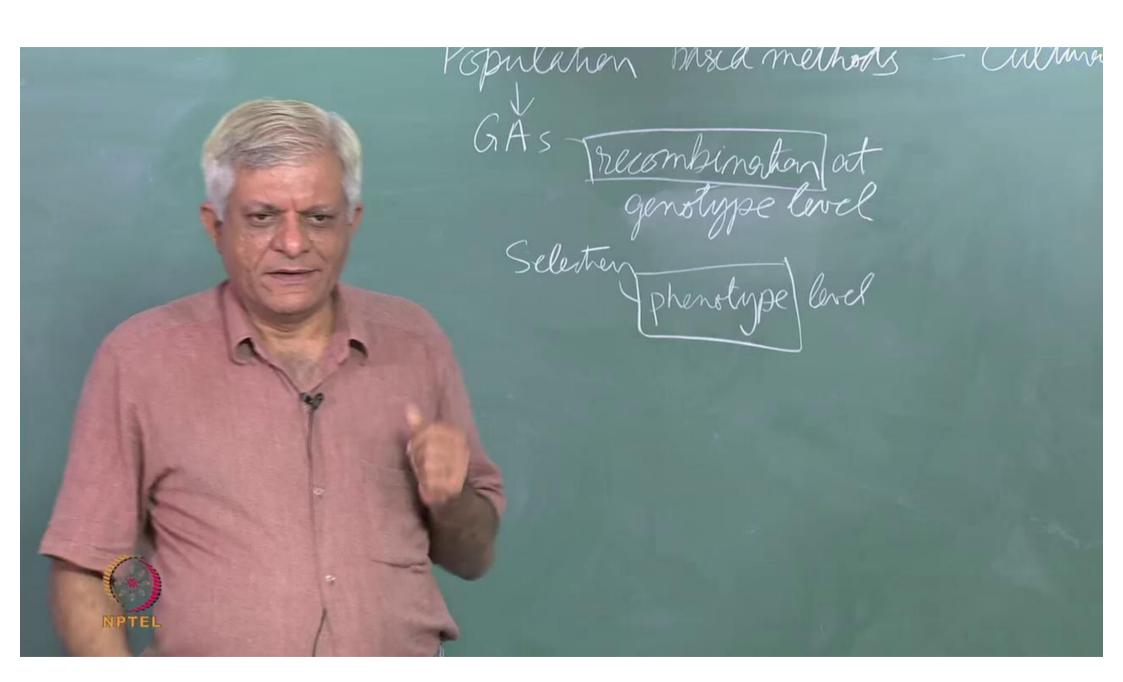


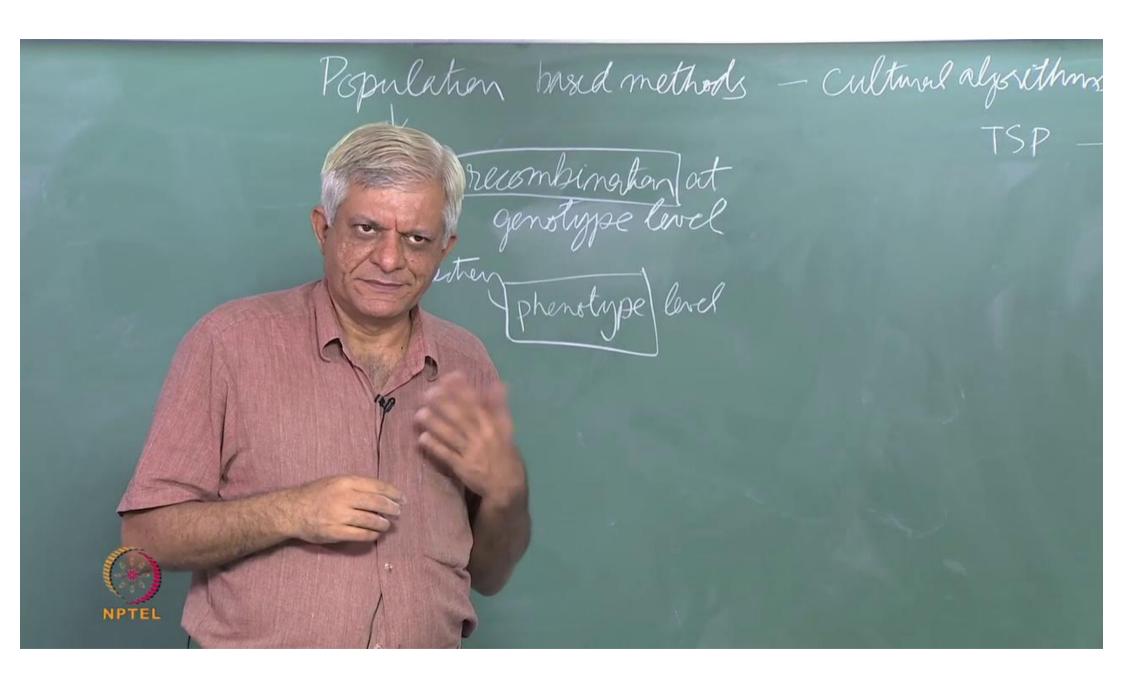






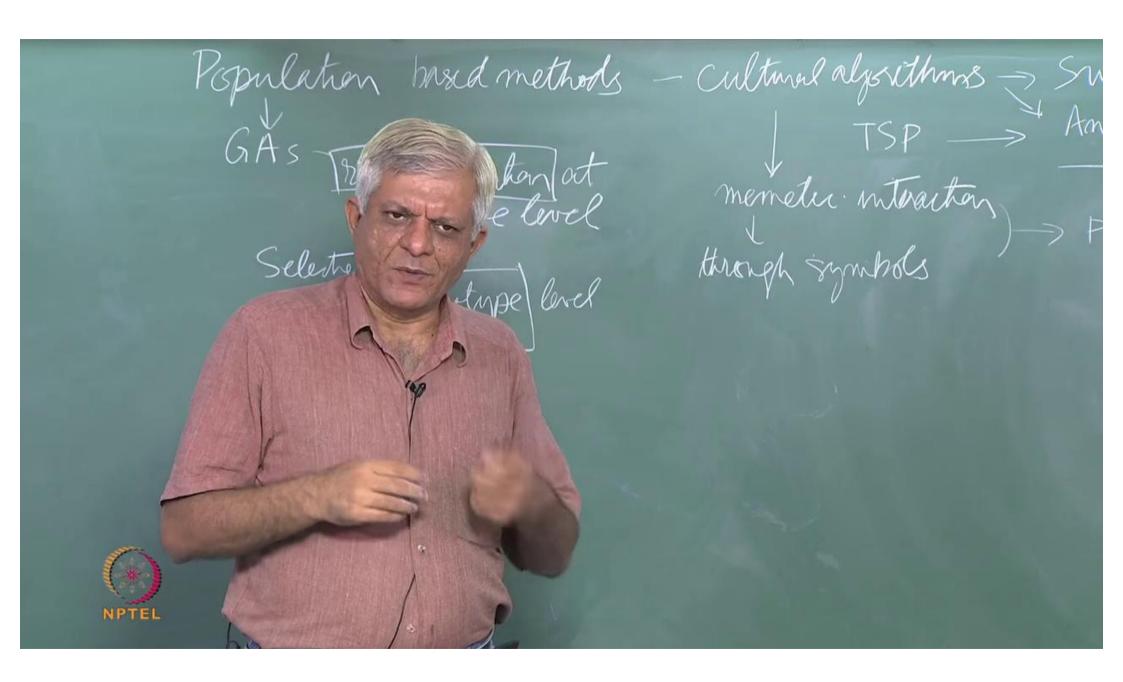


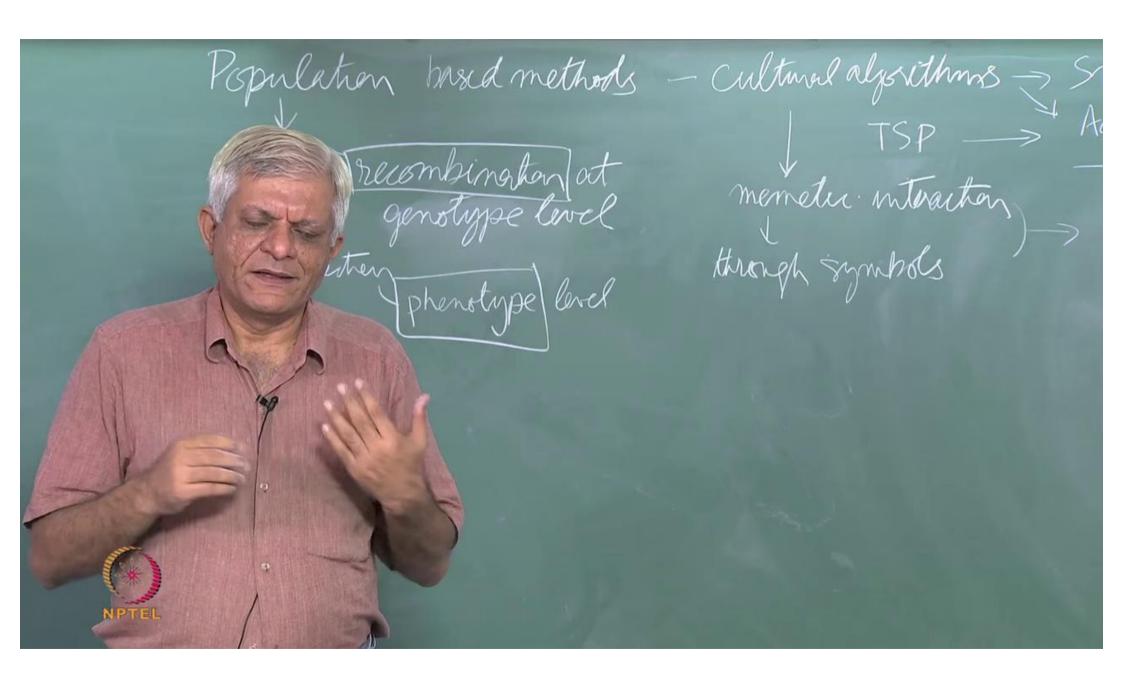


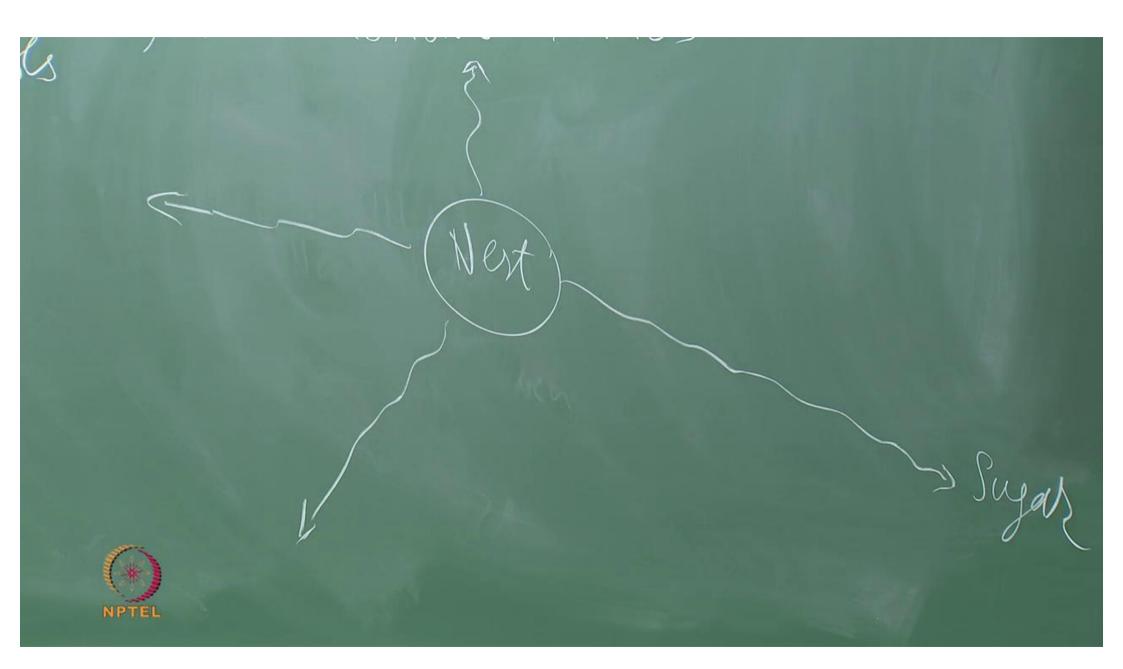


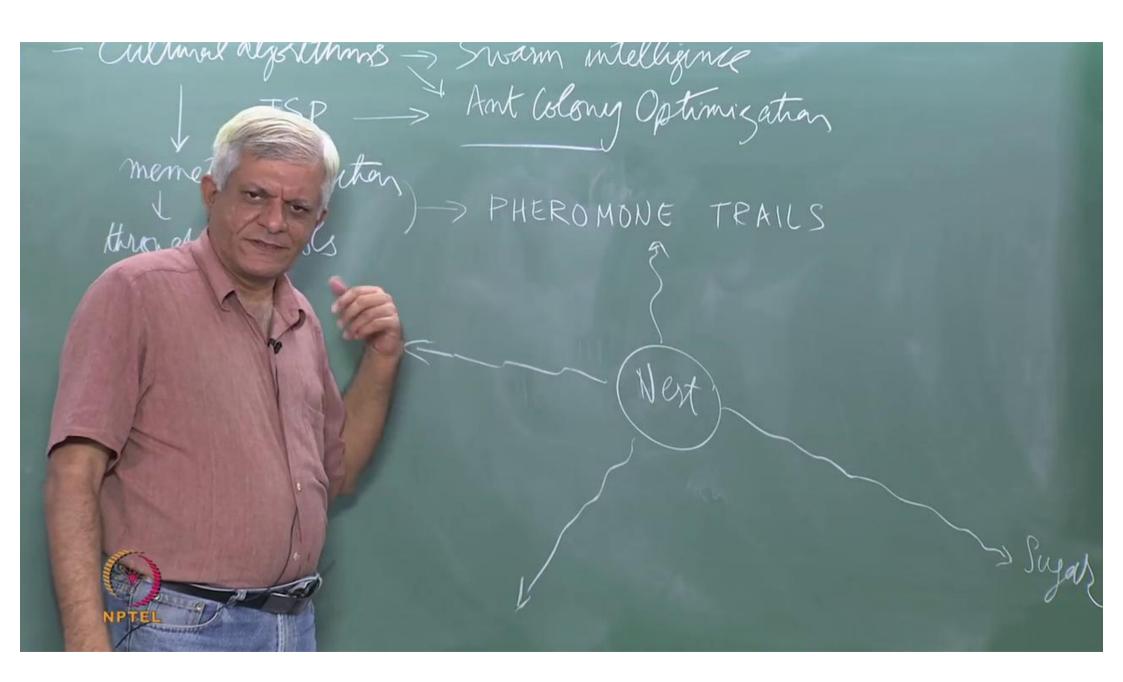
Swarm intelligence Ant Colony Optimization Cultural algorithms memeter interaction through symbols

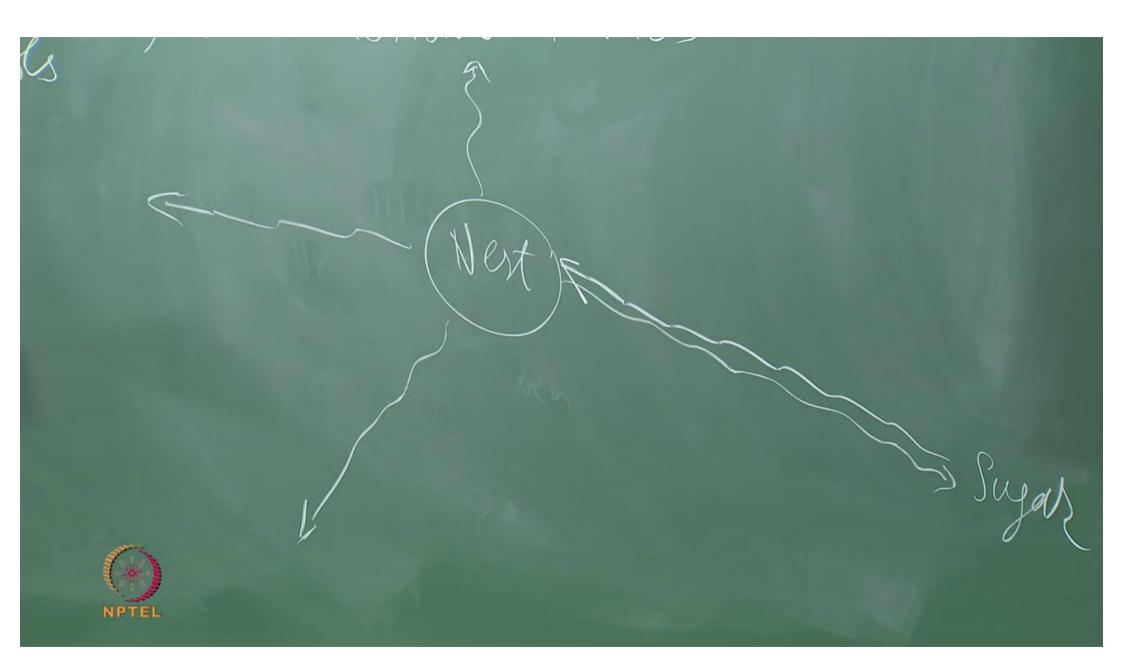


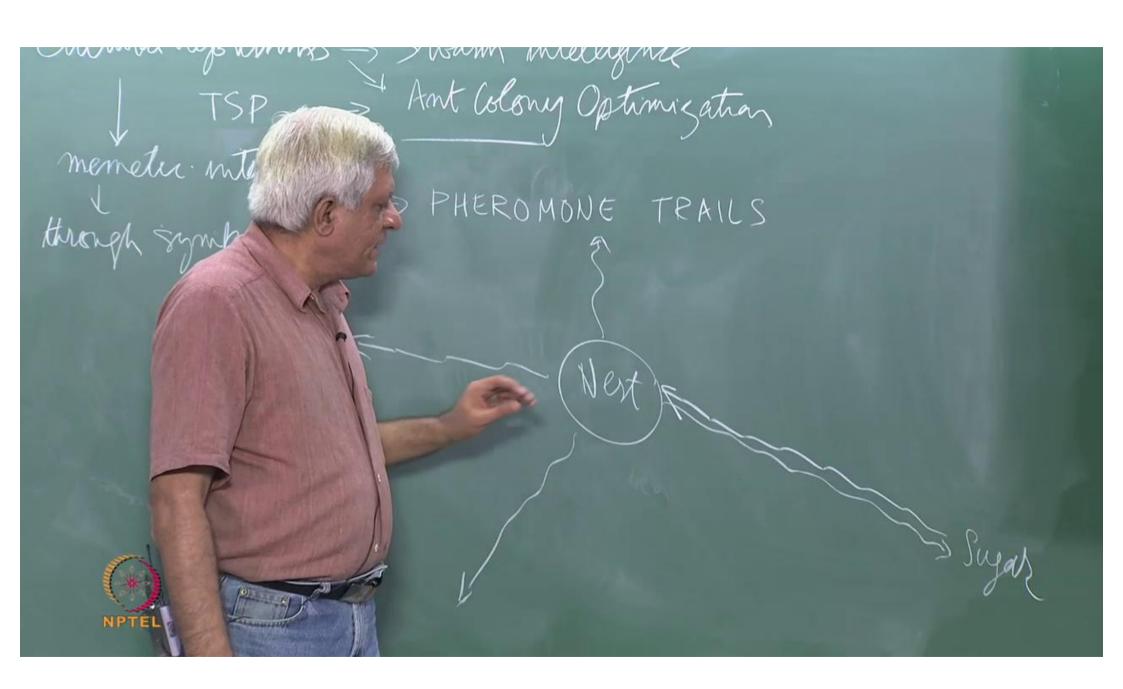


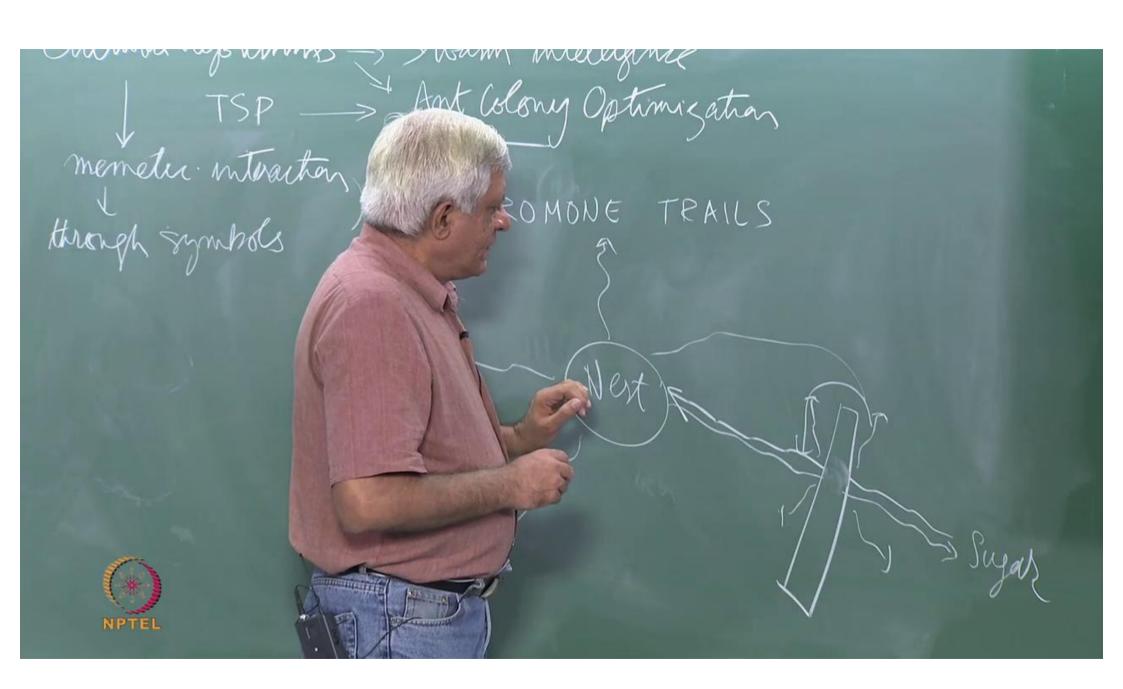


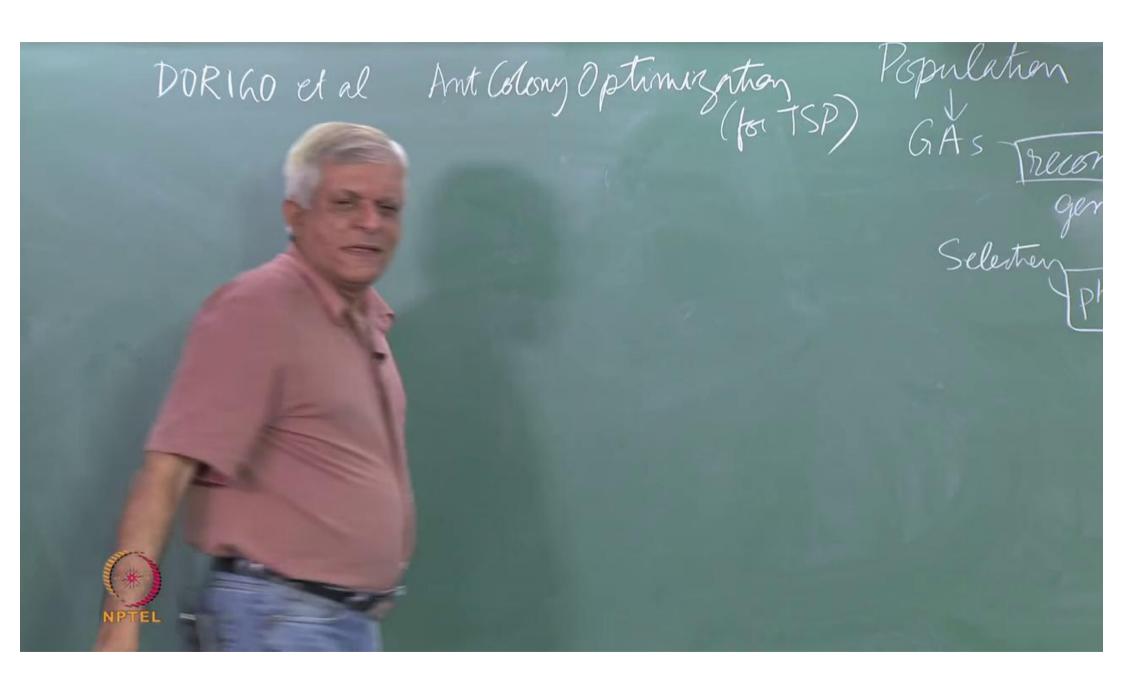


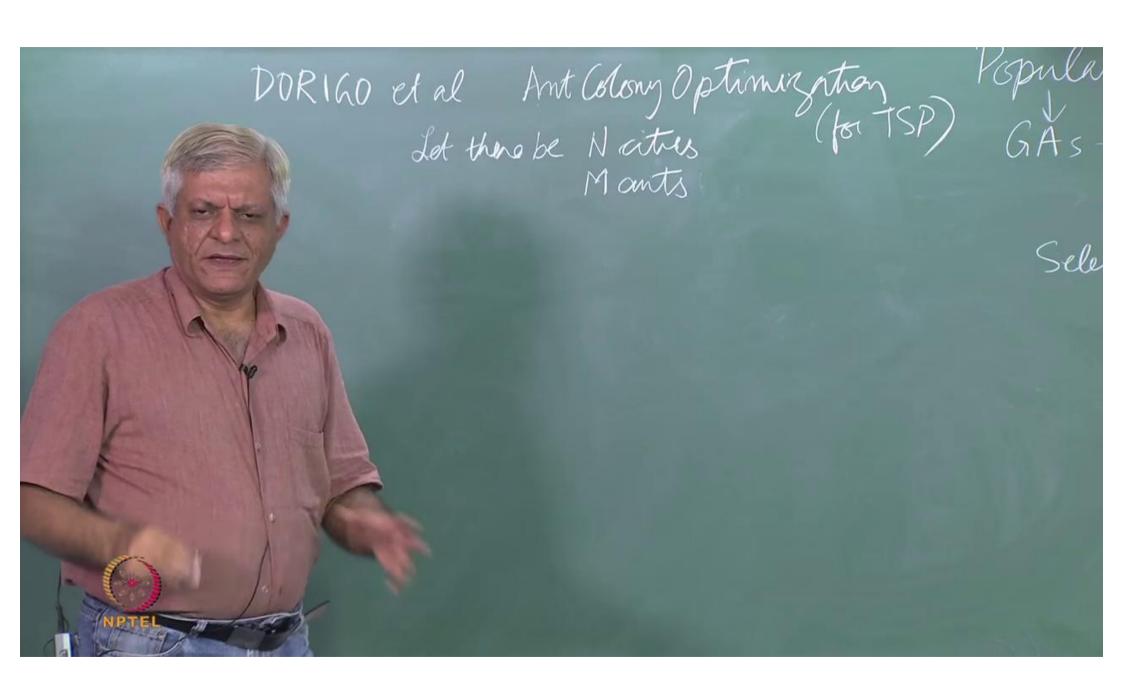


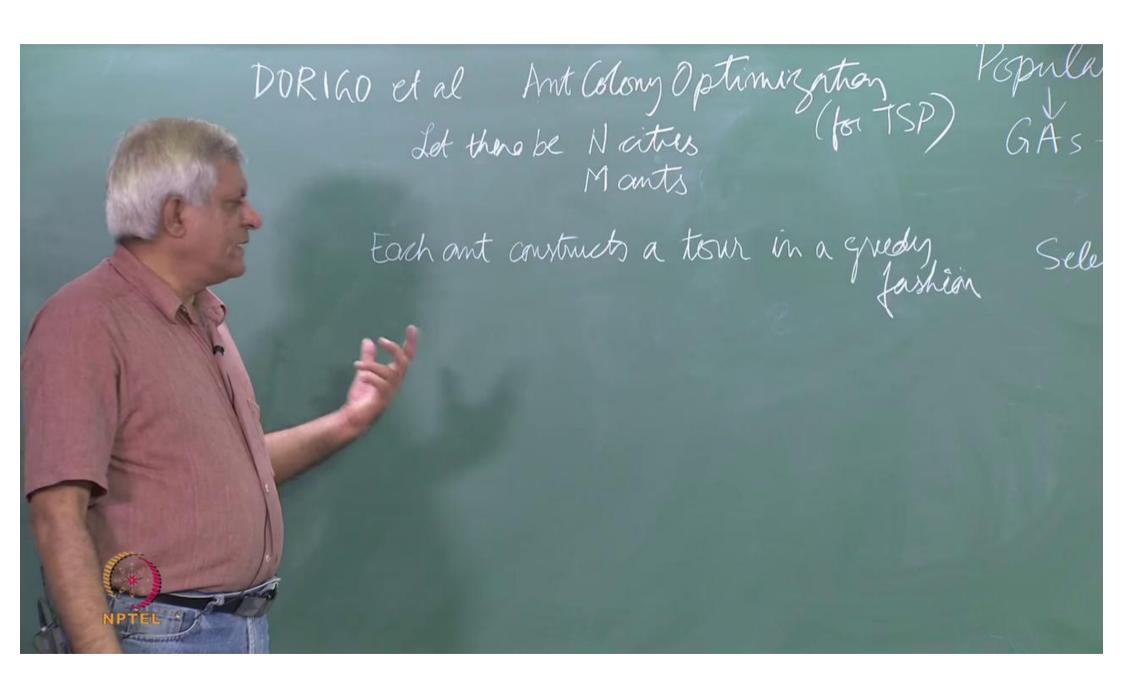


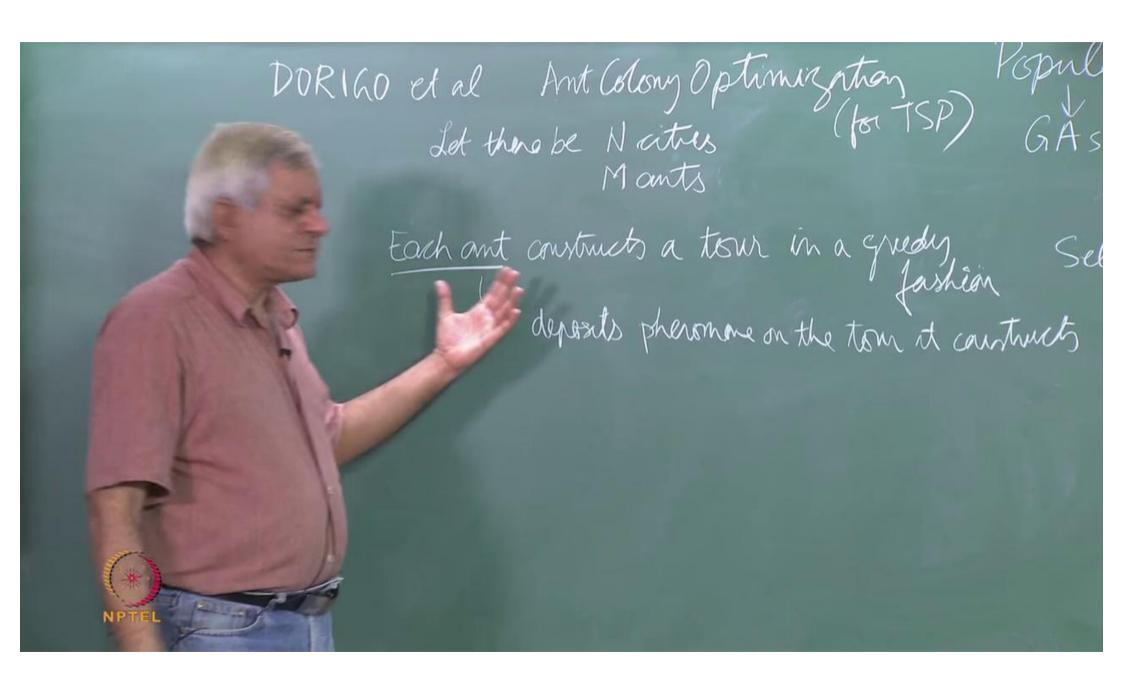


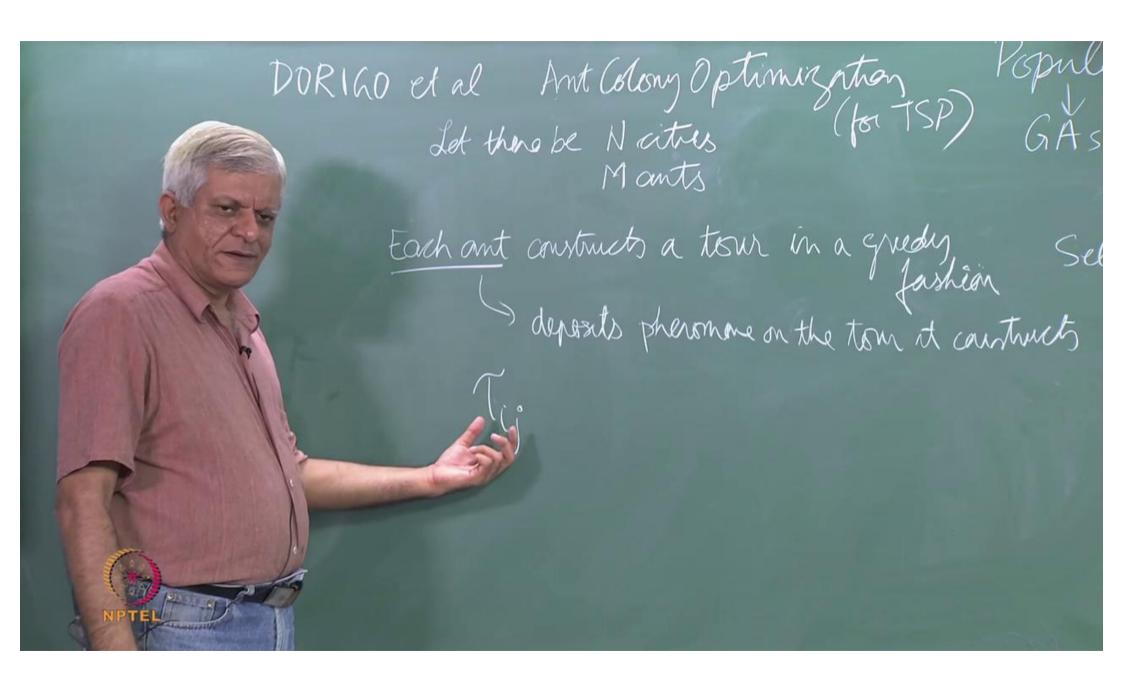


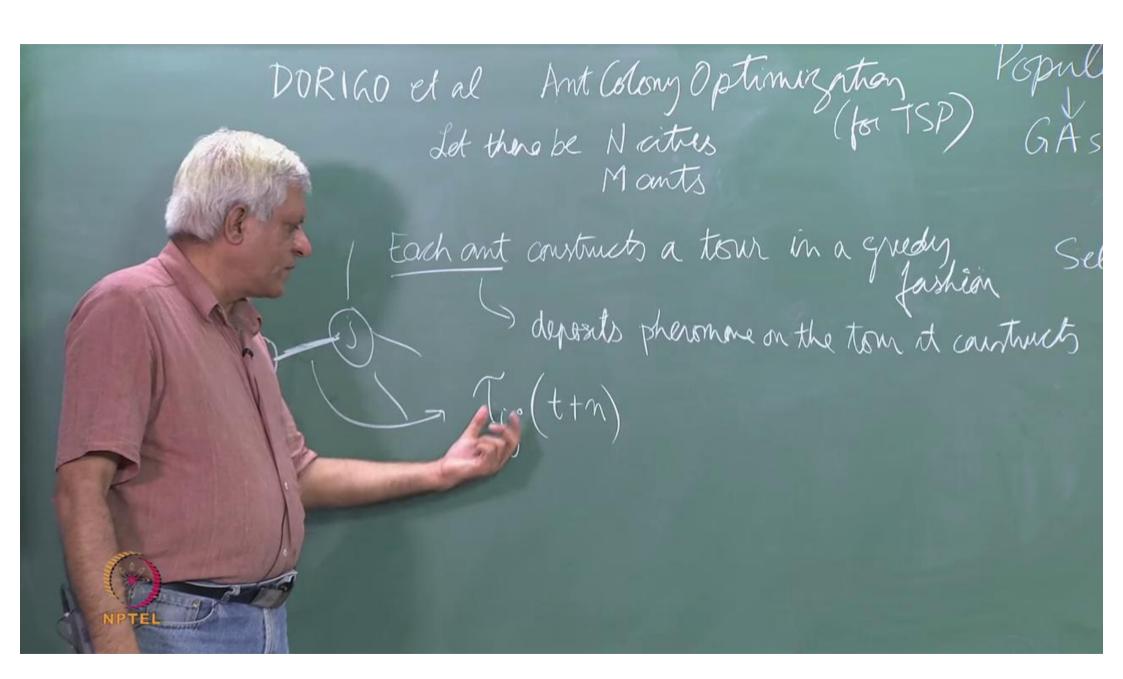


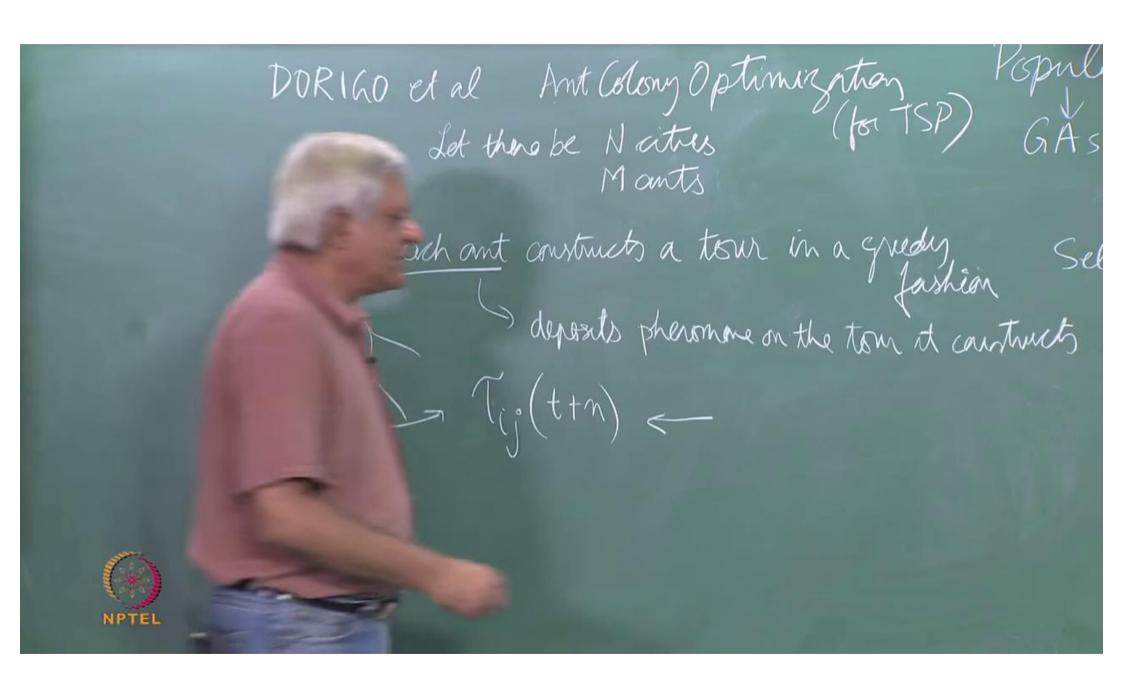


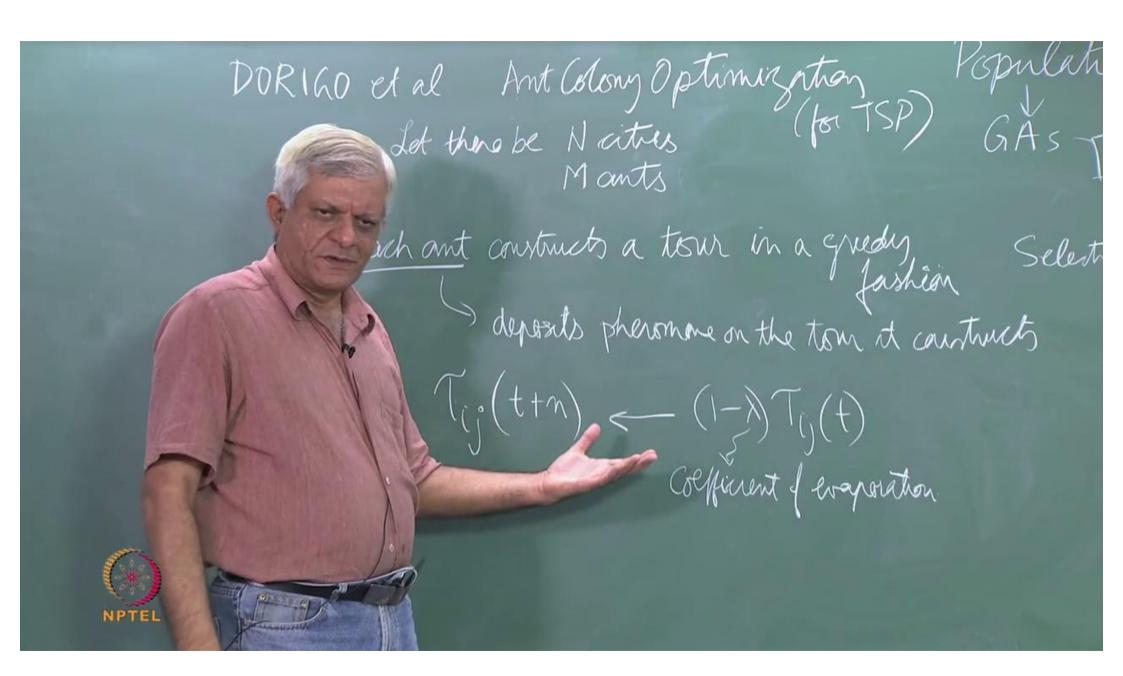






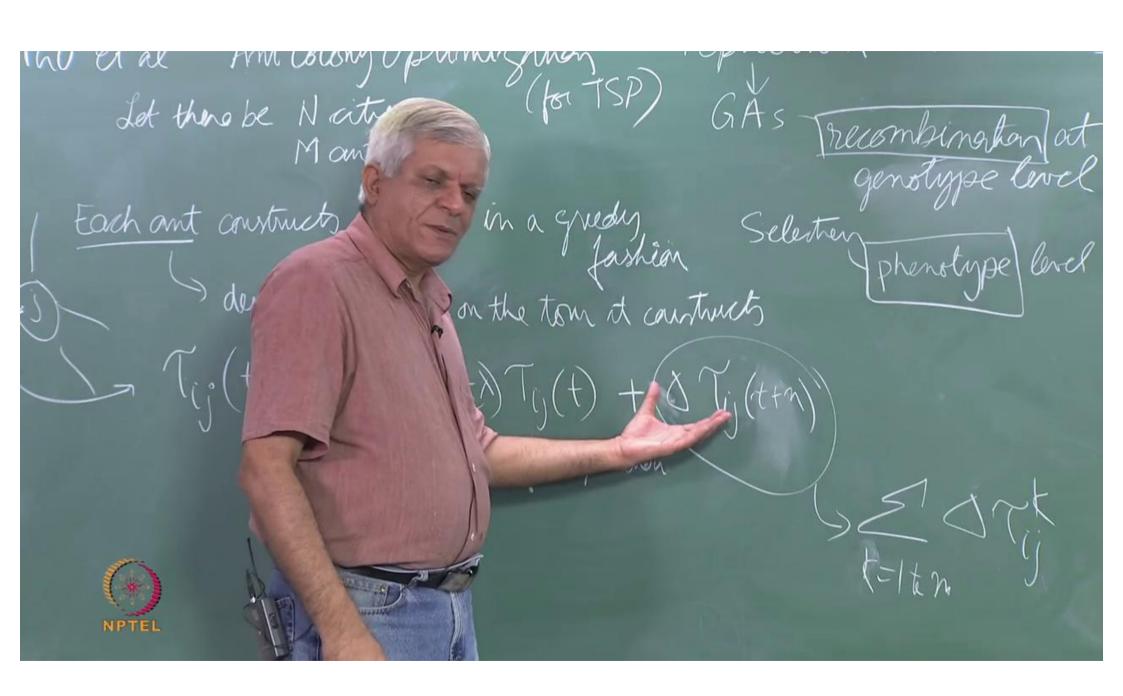


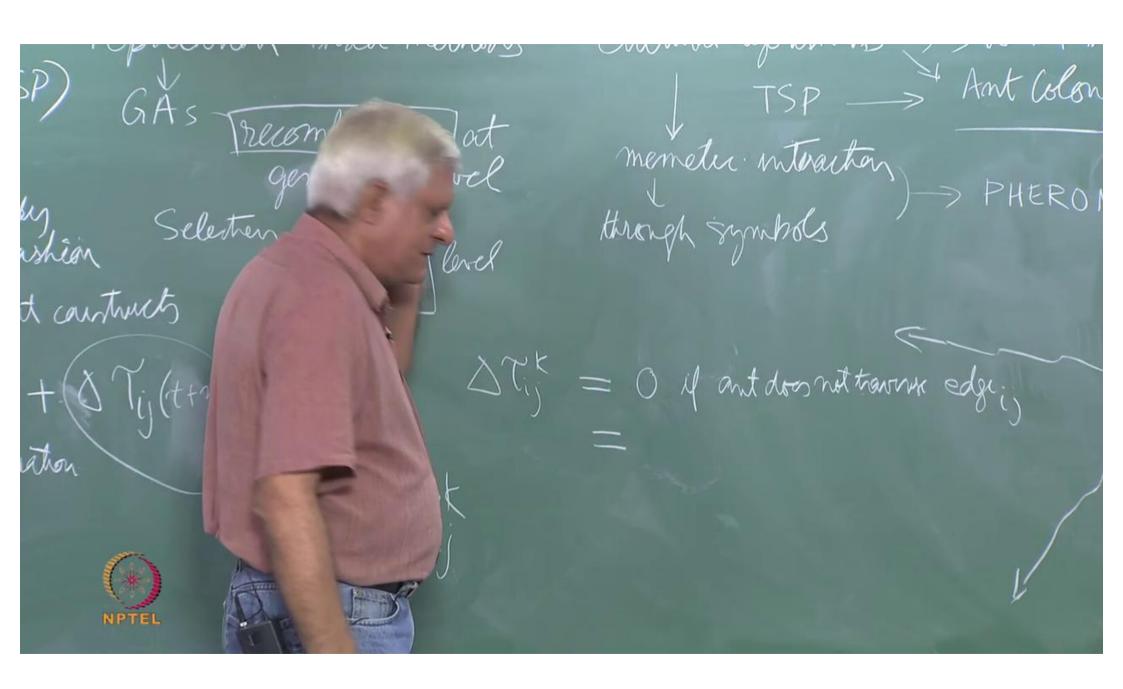


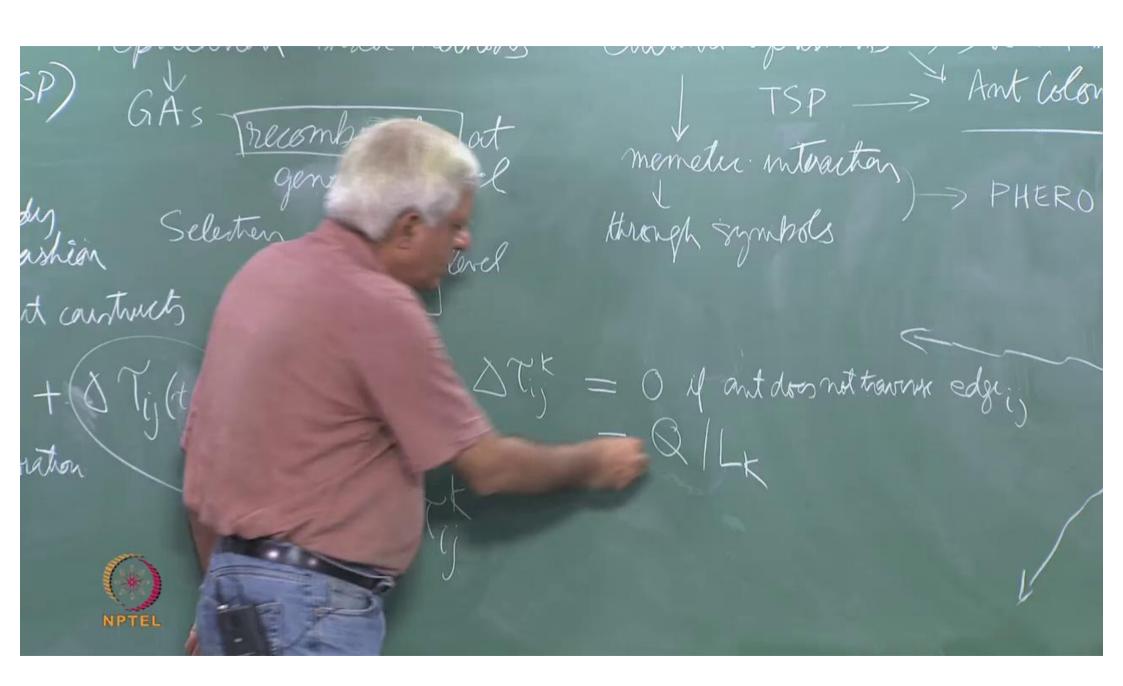


Each ant constructs a tour in a greedy Selection deposits phenomene on the tour it countructs $\int_{0}^{\infty} \int_{0}^{\infty} (t+n) = (1-\lambda) T_{ij}(t) + T_{ij}(n)$ Coefficient of evaporation.

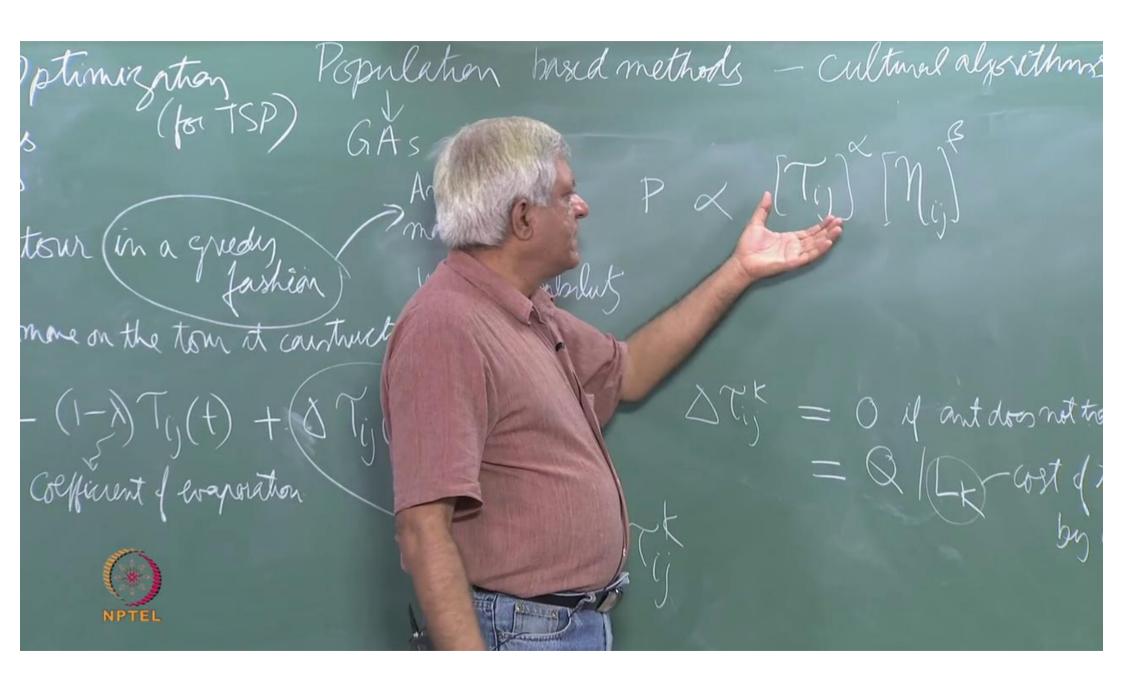




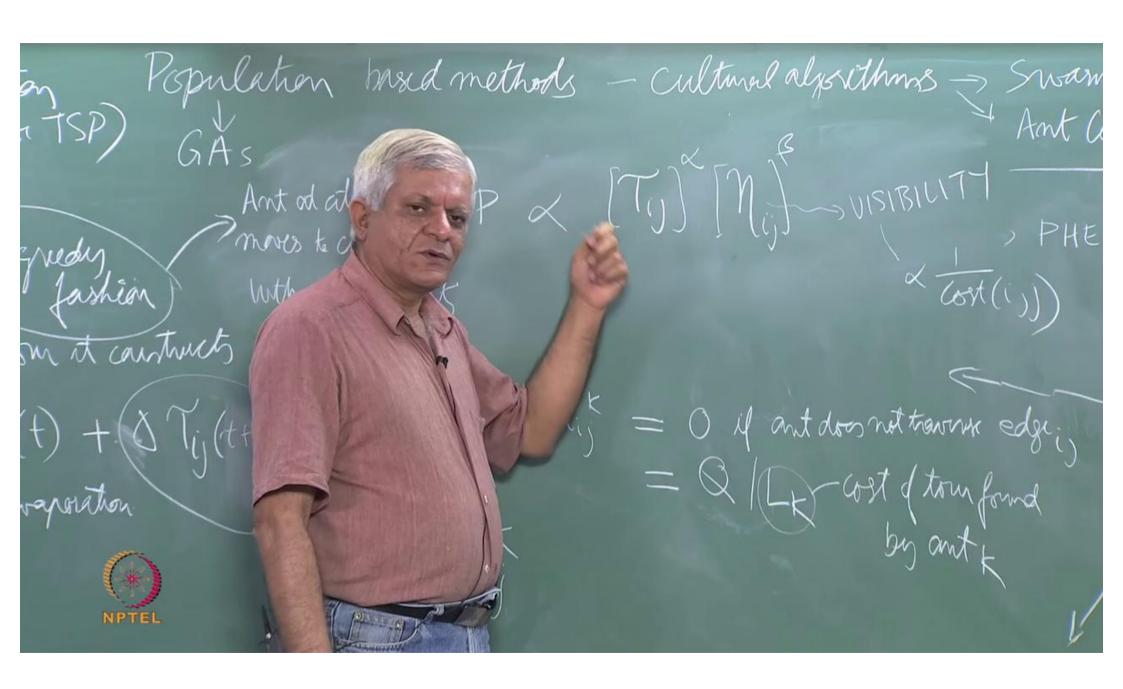




O if ant does not traverse edge;



methods PX (Ti) Mij SUSIBILITY DIL and donnat together o



method M_{ij} Mallaved atus

if a t drant to

