



Representation & Description-I

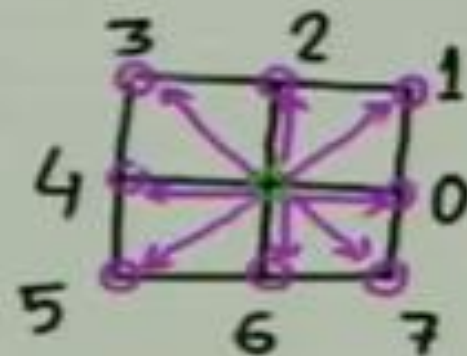
➤ On completion the students will learn and be able to implement

Image understanding techniques

- Representation
 - Boundary based
 - Region based
- Description
 - Boundary based
 - Region based
- Interpretation or recognition

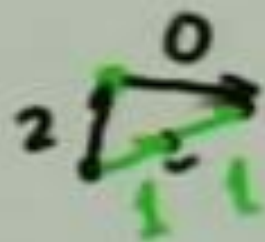
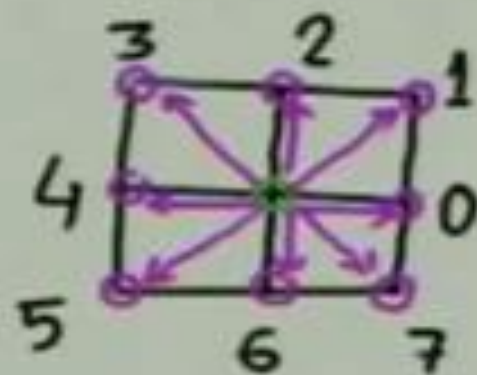
Chain Code.

$i^{\text{th}} \rightarrow i+1$

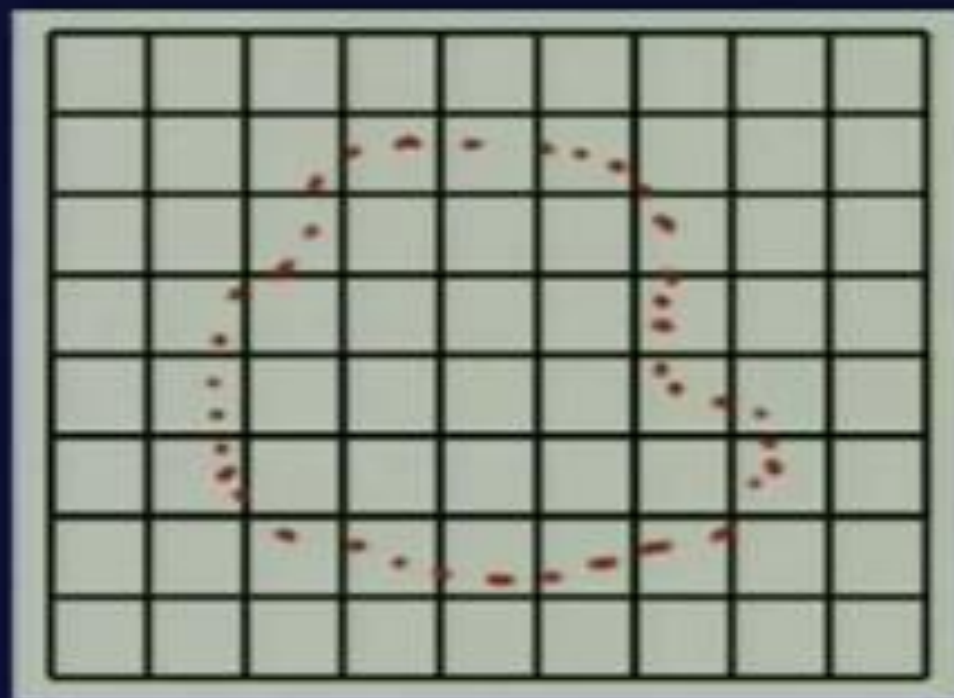


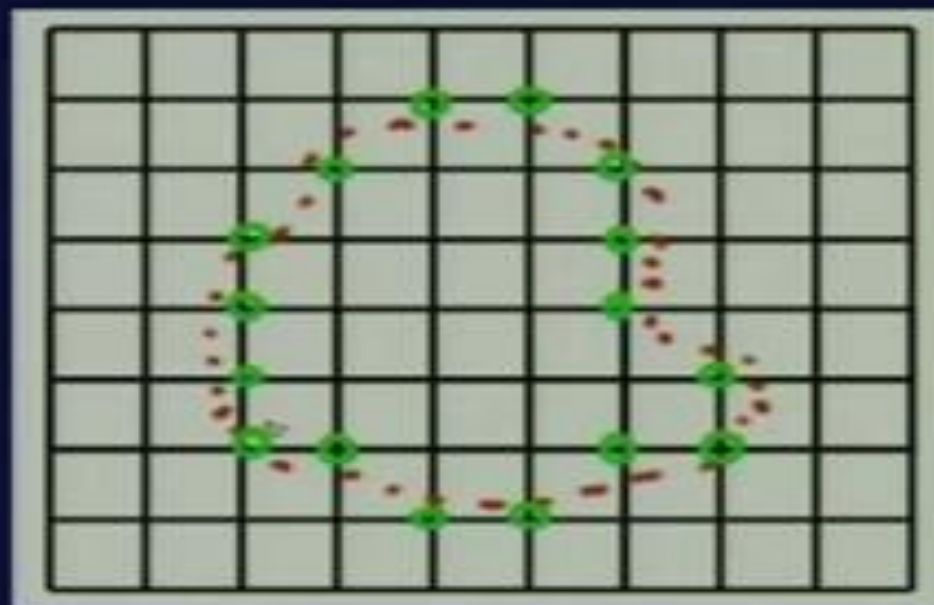
Chain Code

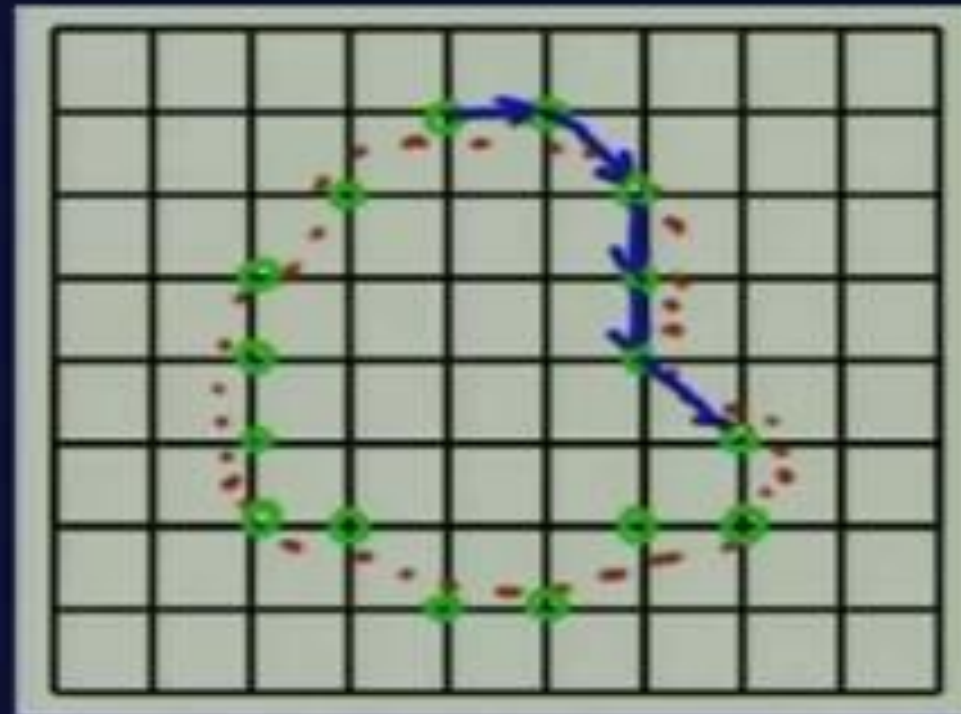
$i^{\text{th}} \rightarrow i+1$

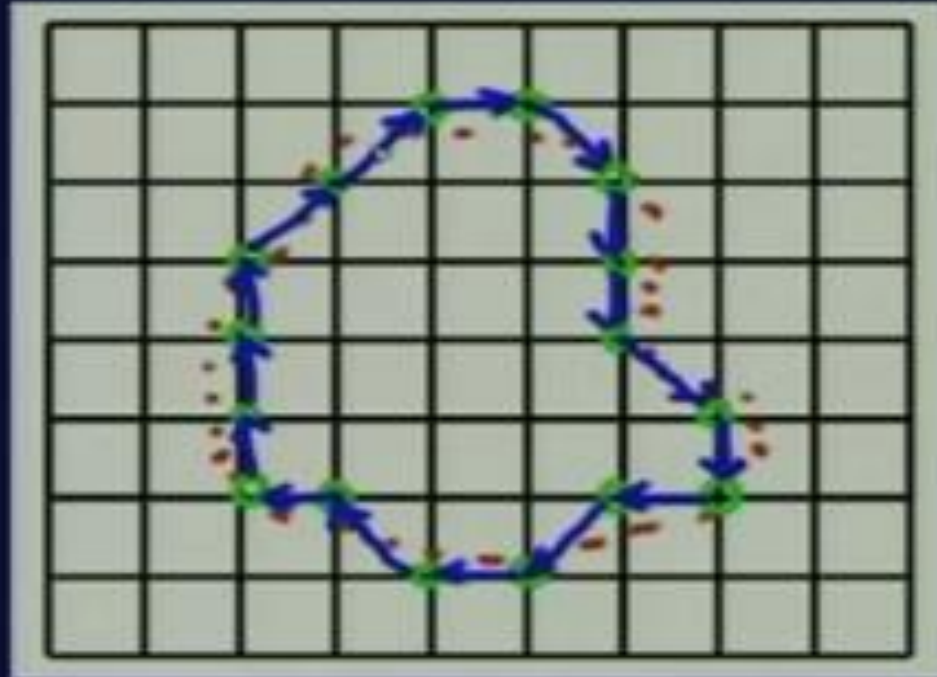


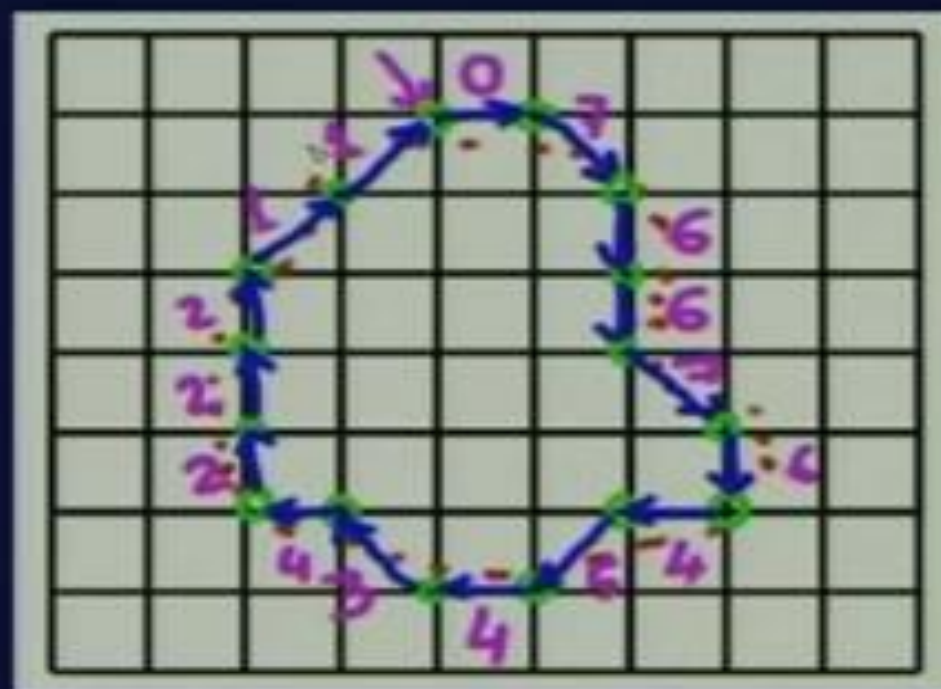
11 \Rightarrow 20

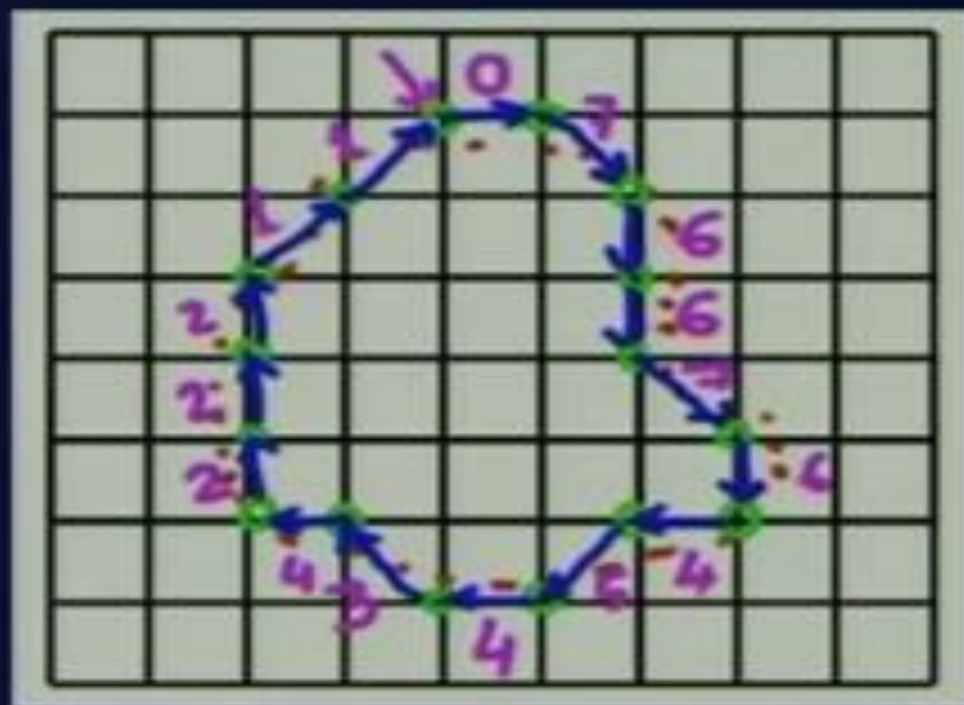




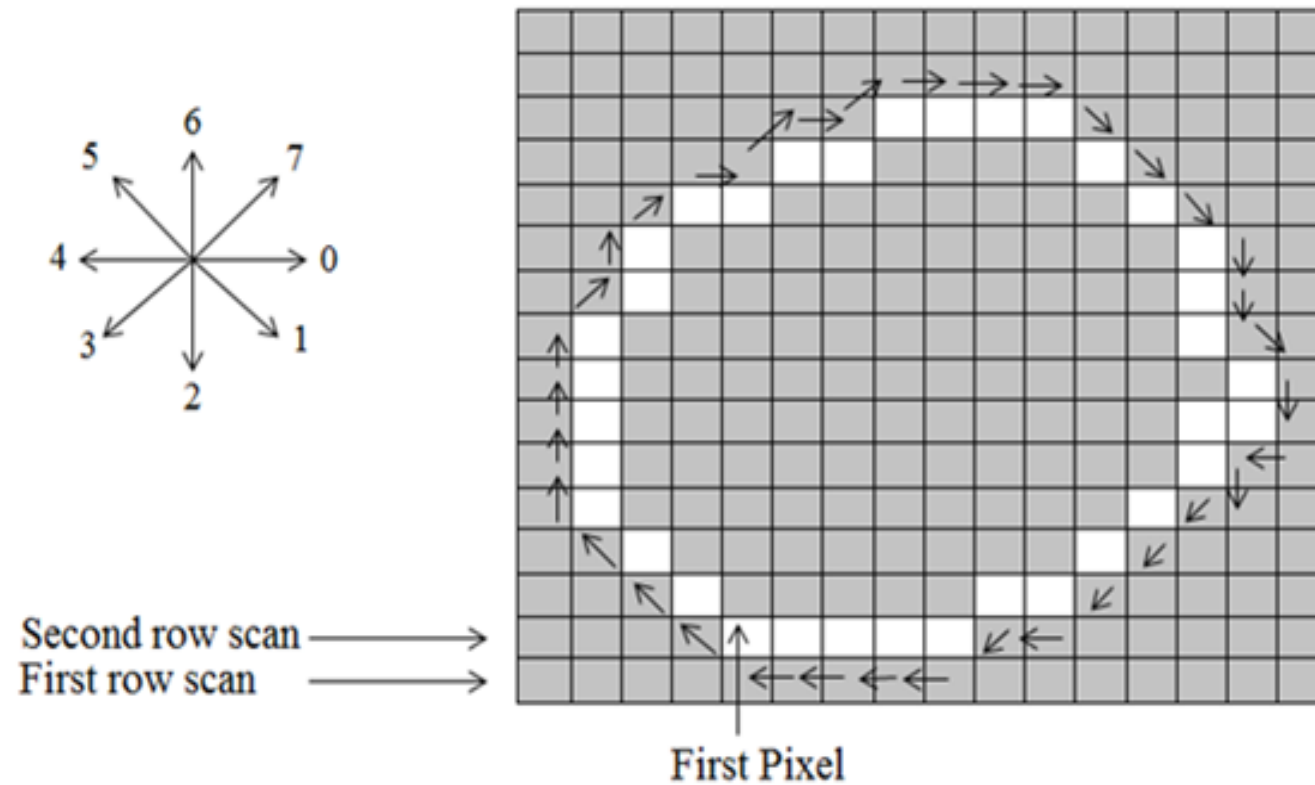






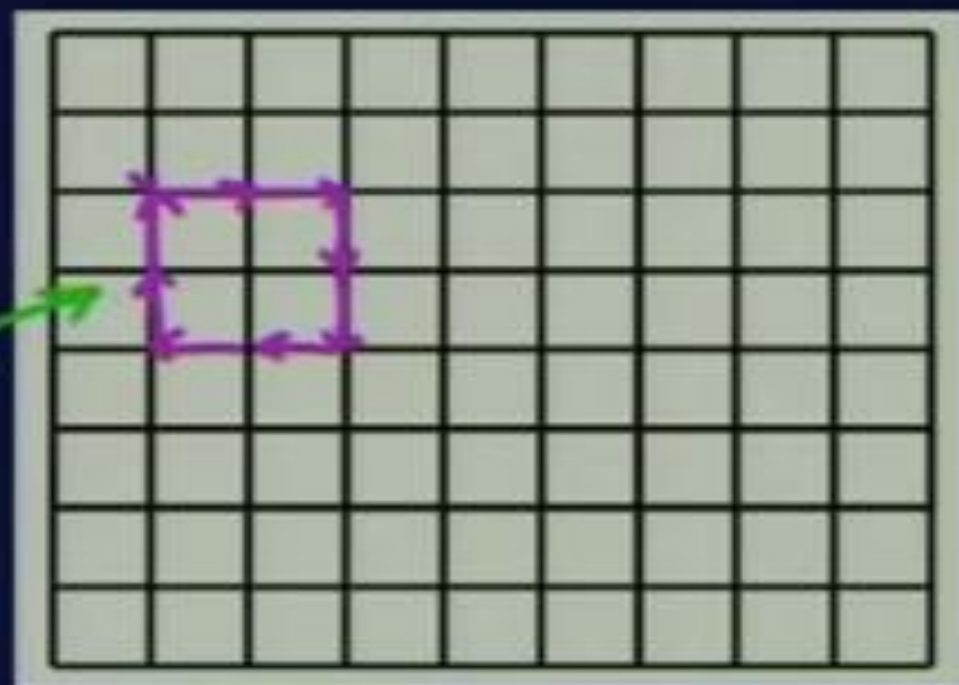


0 7 6 6 7 6 4 5 4 3 4 2 2 2 1 1

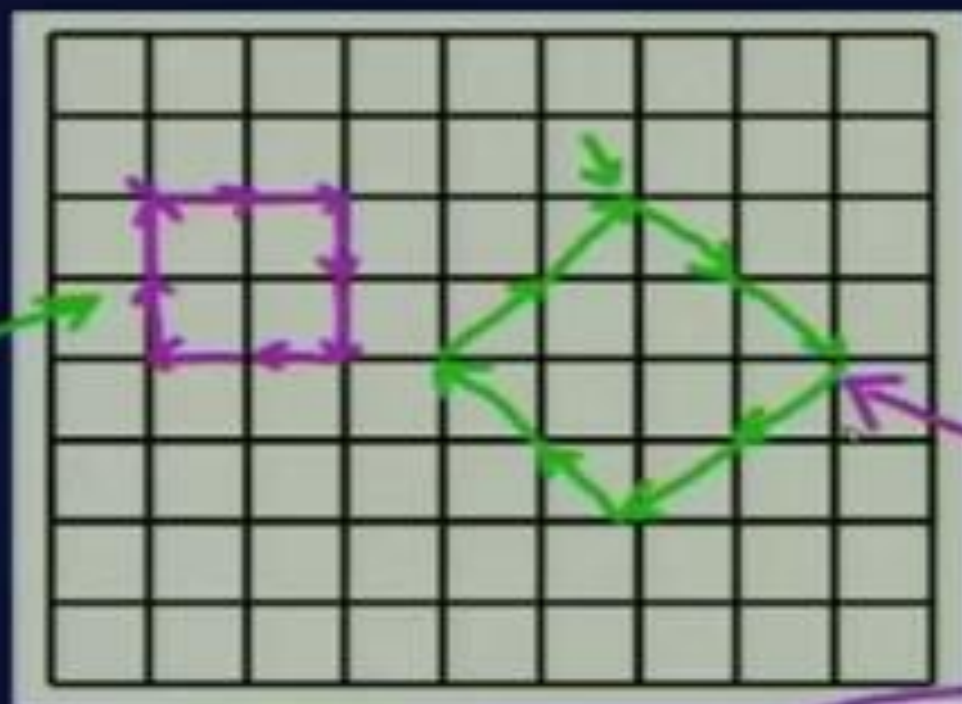


Chain code: [5 5 5 6 6 6 6 7 6 7 0 7 0 0 0 1 1 1 2 2 1 2 4 2 3 3 3 4 3 4 4 4 4]

Chain code representation



0 0 6 6 4 4 2 2

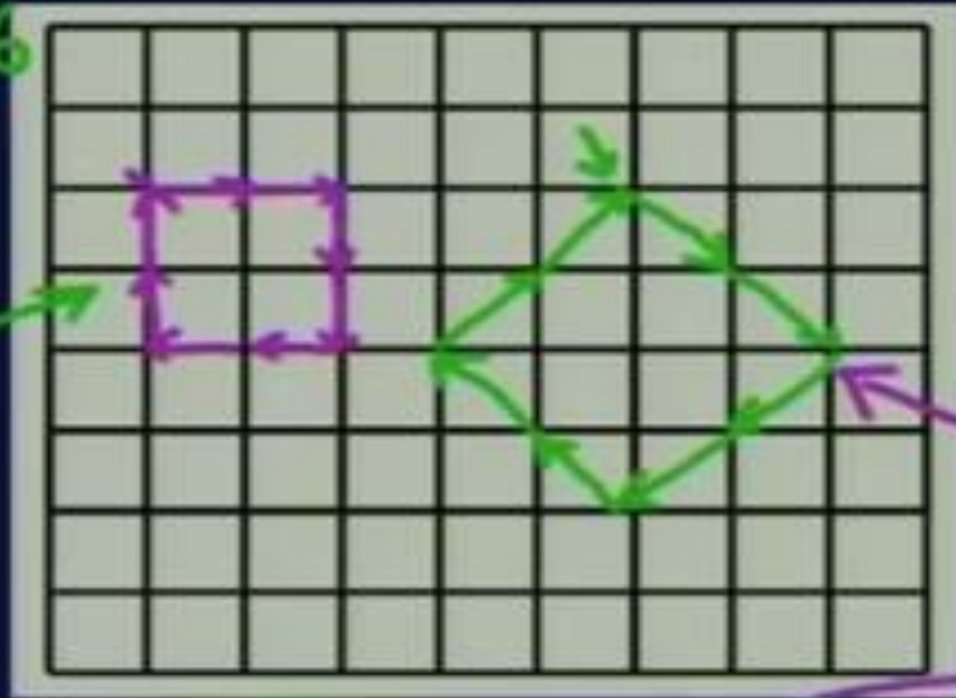


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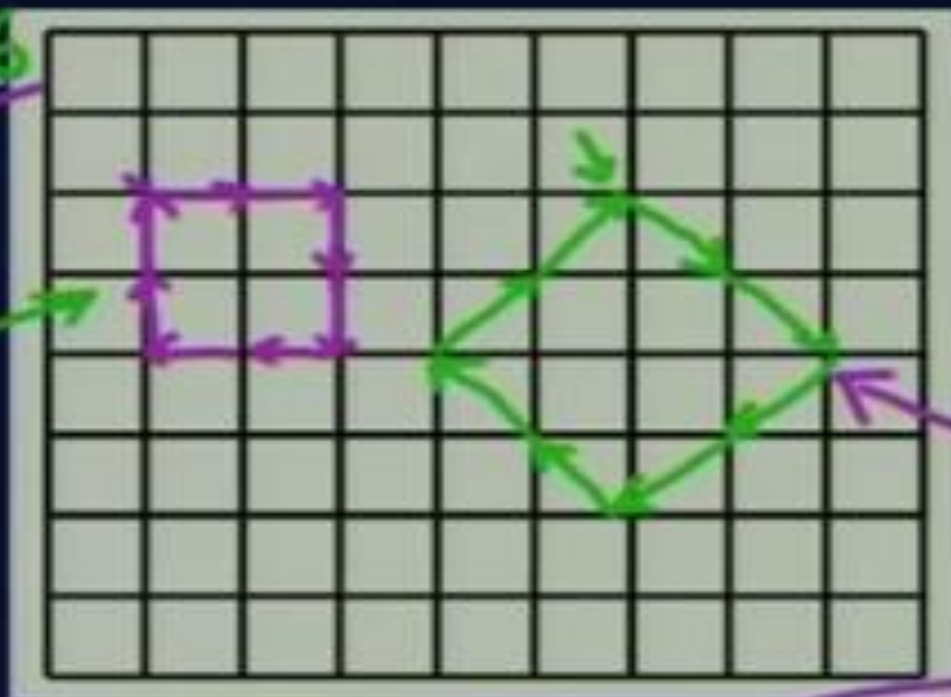


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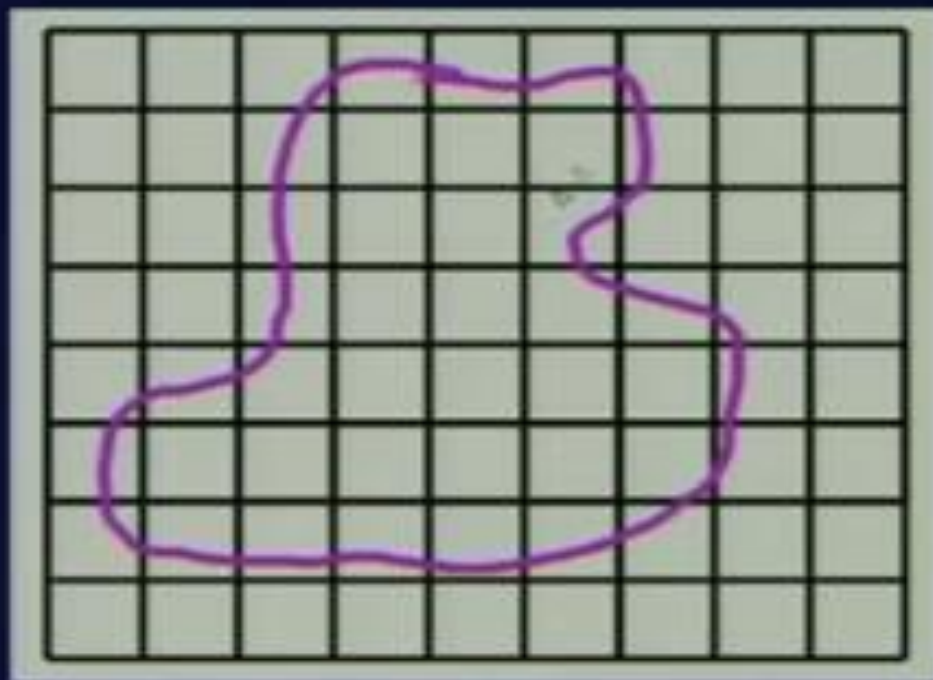


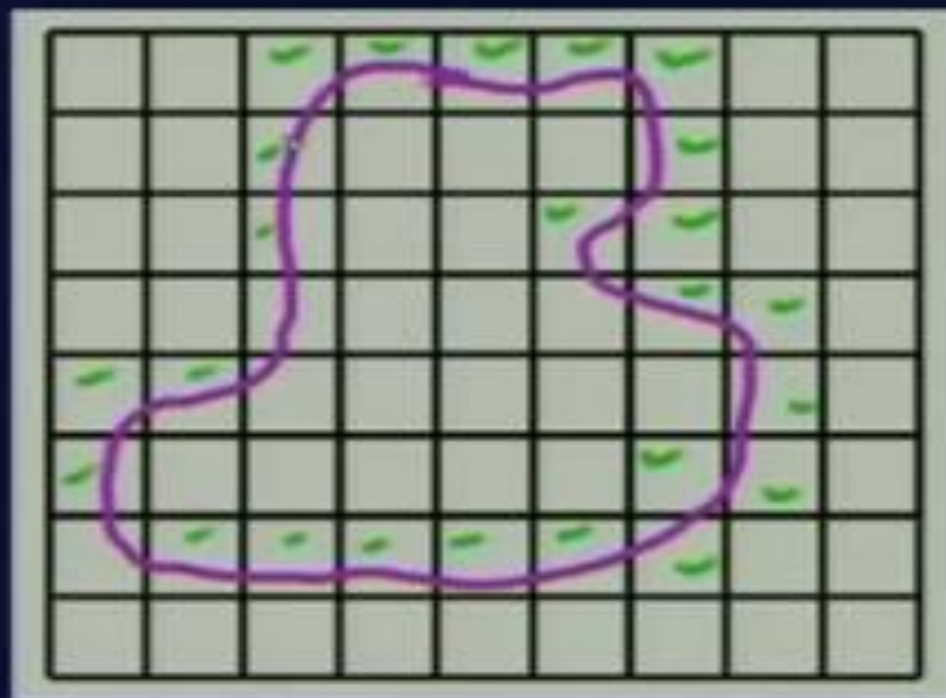
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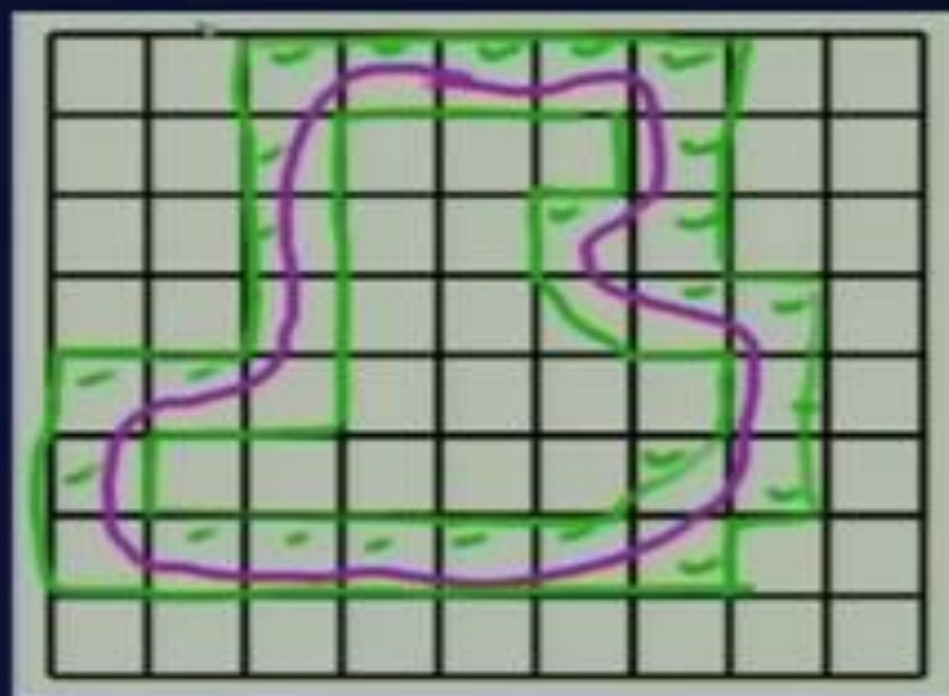


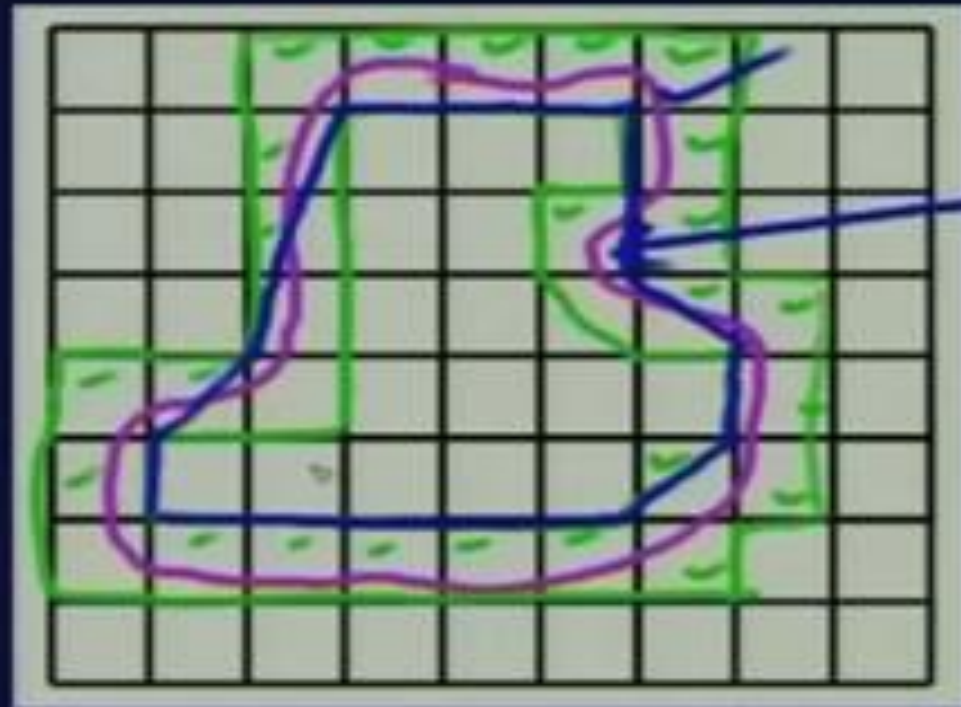
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0 6 0 6 0 6 0 6
7 7 5 5 3 3 1 1



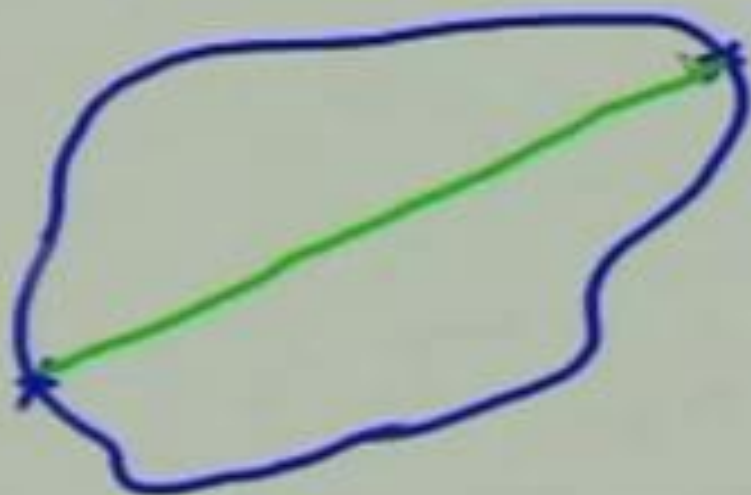


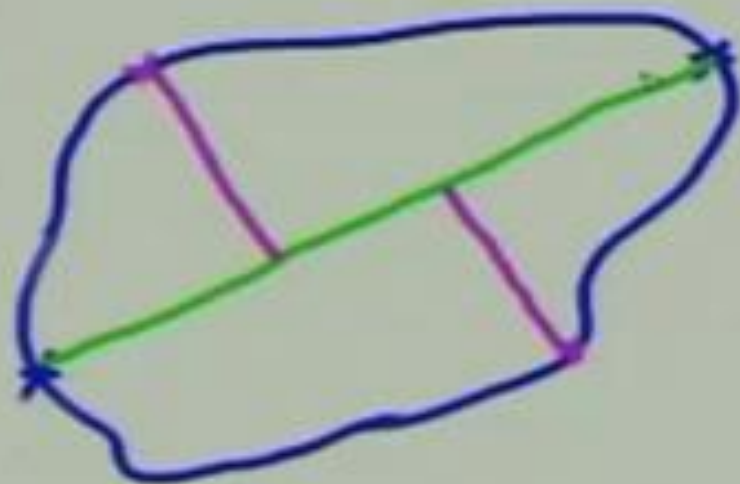


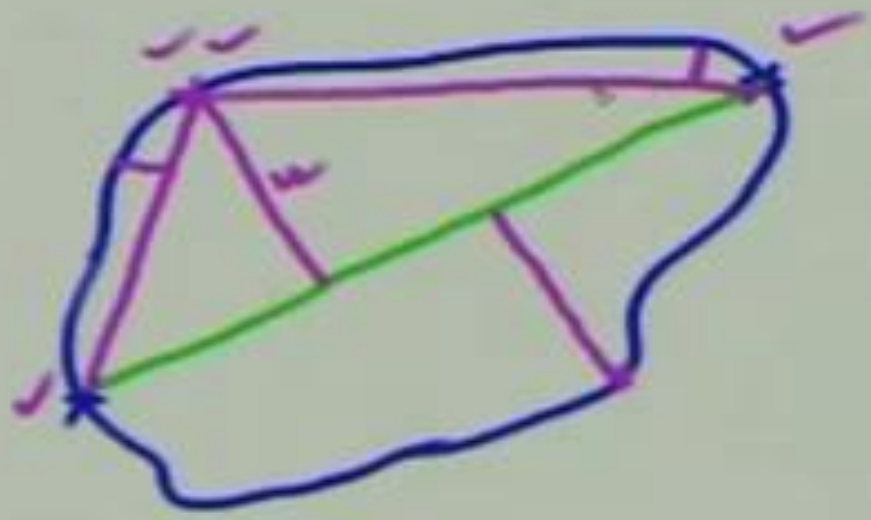


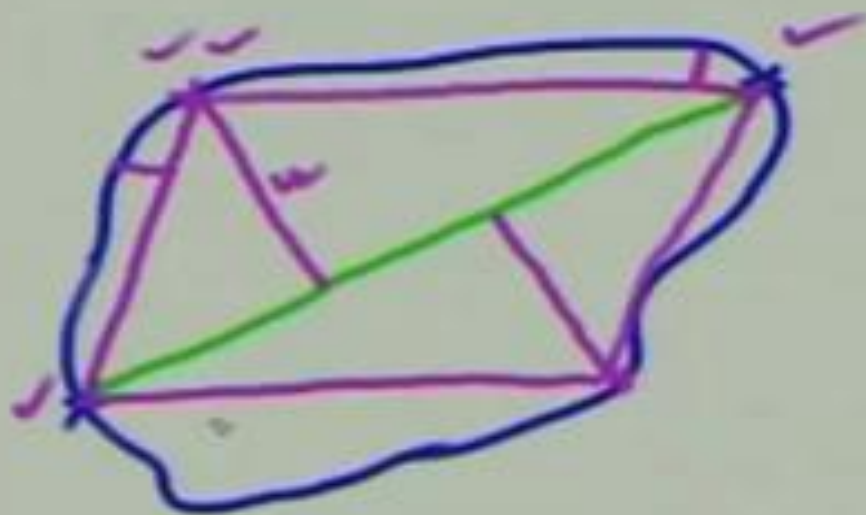
PLM

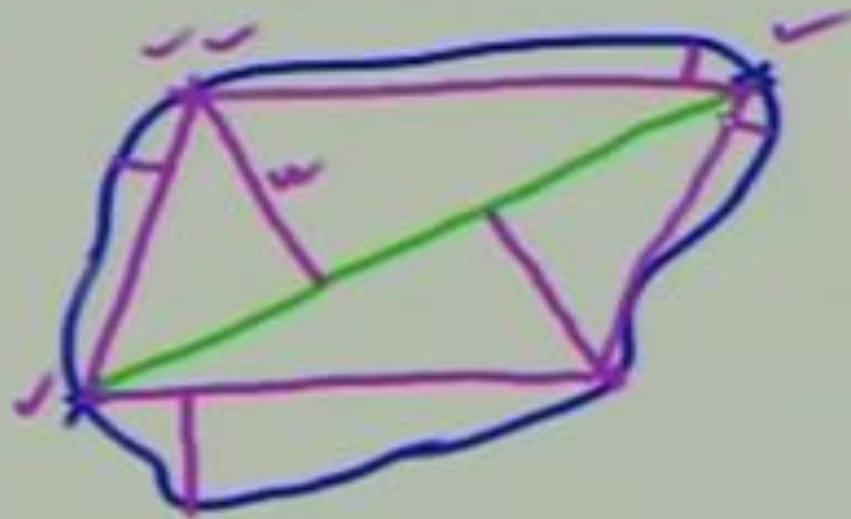


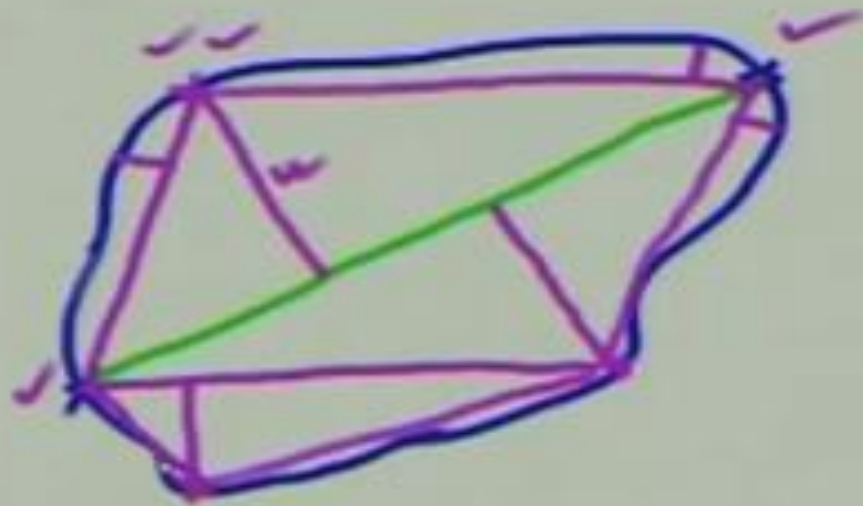


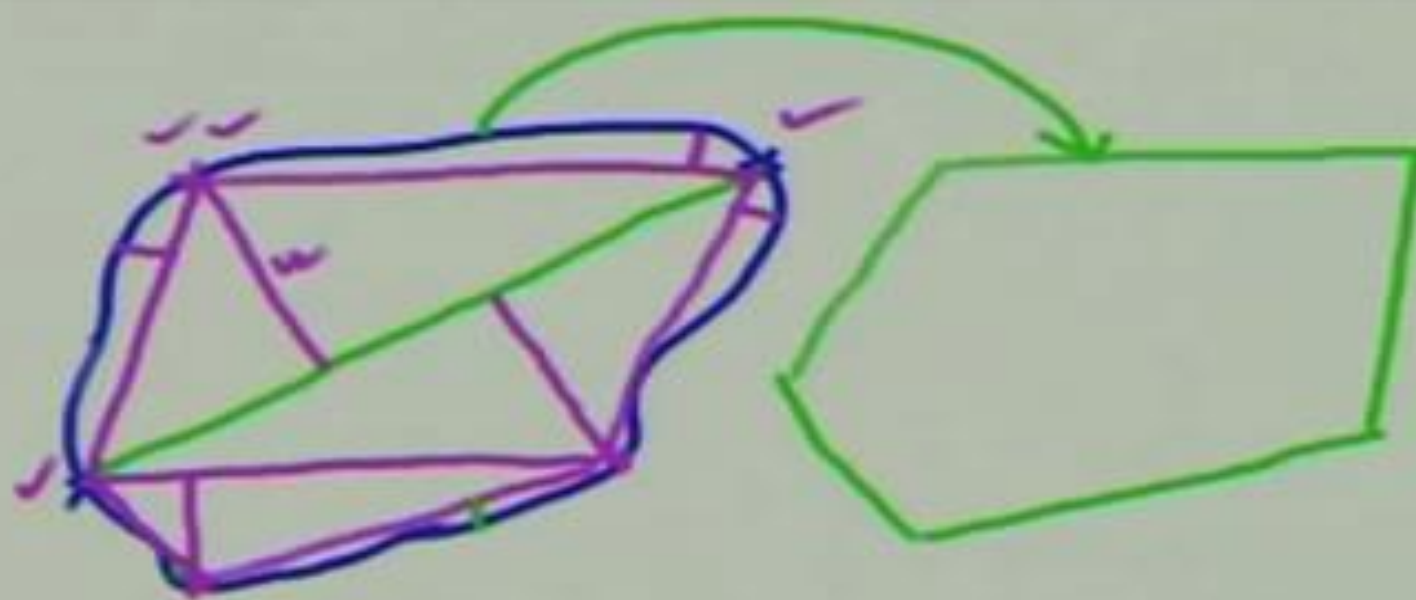








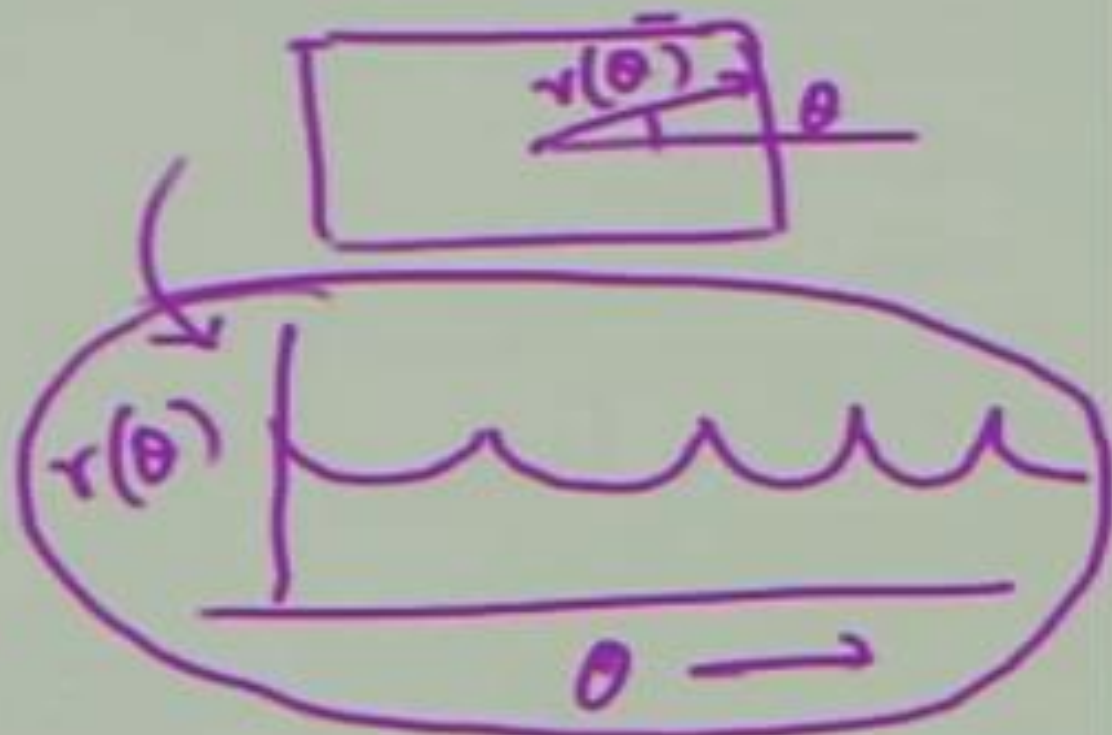
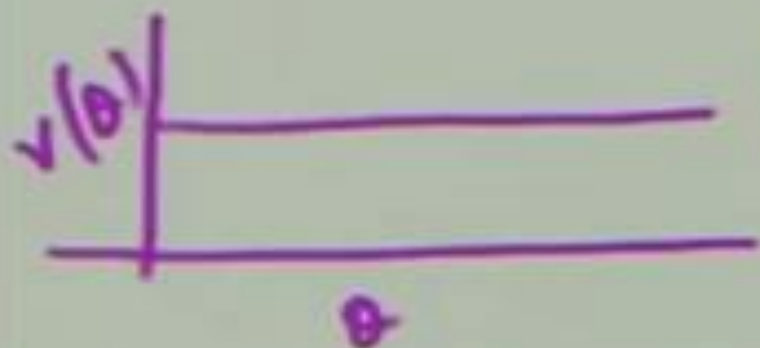




Boundary Splitting

Signature \leftarrow

1-D



Signature \leftarrow

1-D

