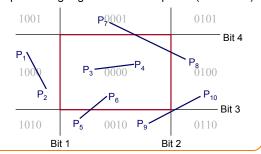


## **Cohen Sutherland Line Clipping**



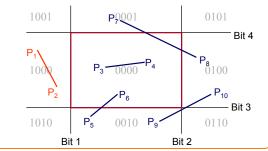
 Classify some lines quickly by AND of bit codes representing regions of two endpoints (must be 0)



## **Cohen Sutherland Line Clipping**



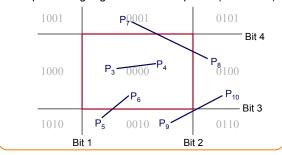
 Classify some lines quickly by AND of bit codes representing regions of two endpoints (must be 0)



# **Cohen Sutherland Line Clipping**



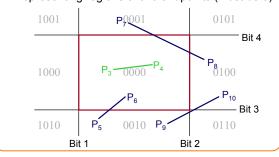
 Classify some lines quickly by AND of bit codes representing regions of two endpoints (must be 0)



## **Cohen Sutherland Line Clipping**



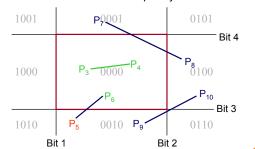
 Classify some lines quickly by AND of bit codes representing regions of two endpoints (must be 0)



# **Cohen-Sutherland Line Clipping**



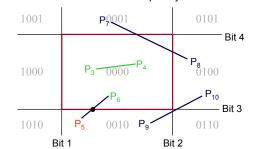
 Compute interesections with window boundary for lines that can't be classified quickly



## **Cohen-Sutherland Line Clipping**

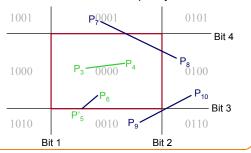


 Compute interesections with window boundary for lines that can't be classified quickly



## **Cohen-Sutherland Line Clipping**

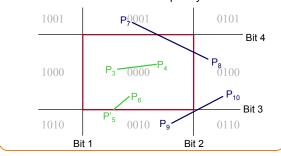
 Compute interesections with window boundary for lines that can't be classified quickly



#### **Cohen-Sutherland Line Clipping**



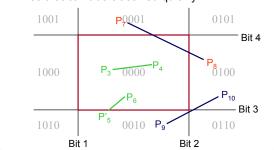
 Compute interesections with window boundary for lines that can't be classified quickly



#### **Cohen-Sutherland Line Clipping**



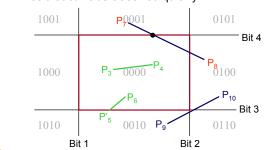
 Compute interesections with window boundary for lines that can't be classified quickly



## **Cohen-Sutherland Line Clipping**



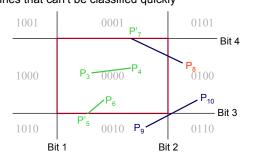
 Compute interesections with window boundary for lines that can't be classified quickly



# **Cohen-Sutherland Line Clipping**



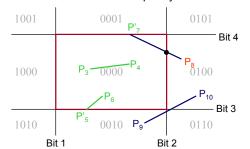
 Compute interesections with window boundary for lines that can't be classified quickly



## **Cohen-Sutherland Line Clipping**

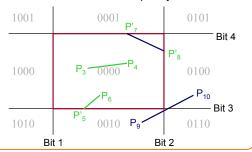


 Compute interesections with window boundary for lines that can't be classified quickly



#### **Cohen-Sutherland Line Clipping**

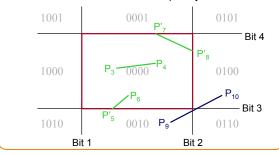
 Compute interesections with window boundary for lines that can't be classified quickly



#### **Cohen-Sutherland Line Clipping**



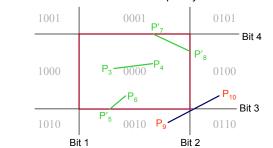
 Compute interesections with window boundary for lines that can't be classified quickly



#### **Cohen-Sutherland Line Clipping**



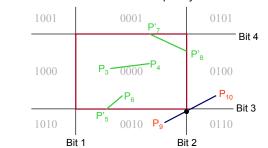
 Compute interesections with window boundary for lines that can't be classified quickly



## **Cohen-Sutherland Line Clipping**



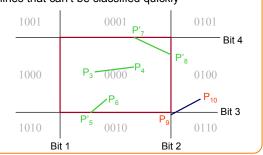
 Compute interesections with window boundary for lines that can't be classified quickly



# **Cohen-Sutherland Line Clipping**



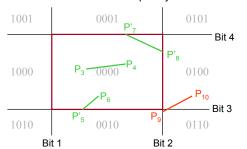
 Compute interesections with window boundary for lines that can't be classified quickly

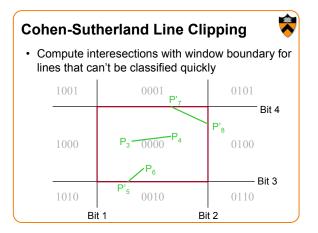


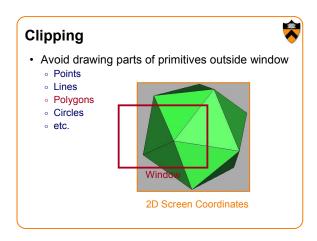
## **Cohen-Sutherland Line Clipping**

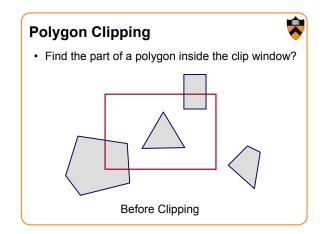


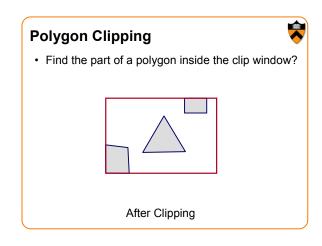
 Compute interesections with window boundary for lines that can't be classified quickly

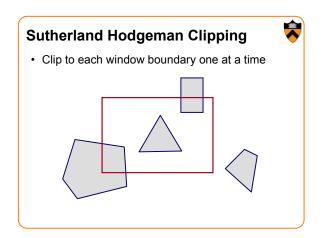


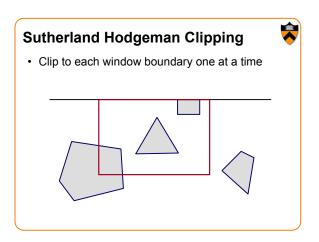


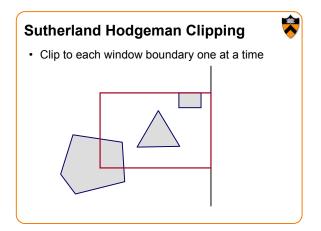


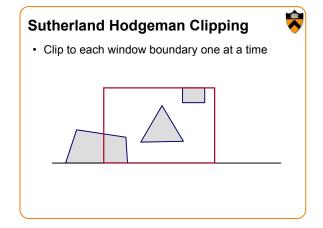


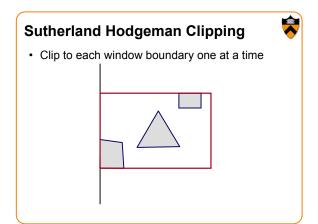


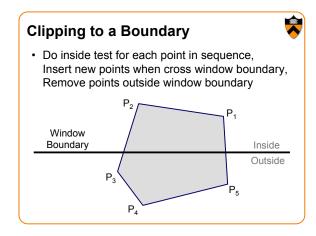


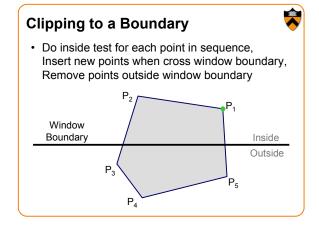


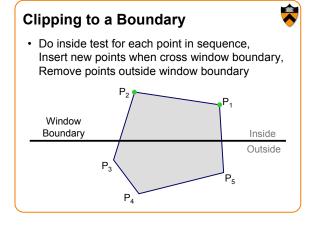






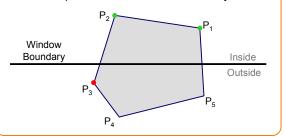






# Clipping to a Boundary

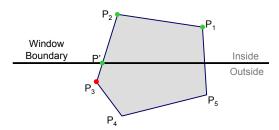
 Do inside test for each point in sequence, Insert new points when cross window boundary, Remove points outside window boundary



#### Clipping to a Boundary



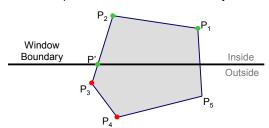
 Do inside test for each point in sequence, Insert new points when cross window boundary, Remove points outside window boundary



#### Clipping to a Boundary



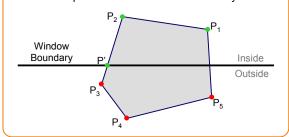
 Do inside test for each point in sequence, Insert new points when cross window boundary, Remove points outside window boundary



#### Clipping to a Boundary



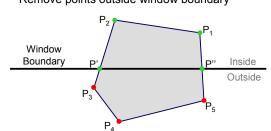
 Do inside test for each point in sequence, Insert new points when cross window boundary, Remove points outside window boundary



## **Clipping to a Boundary**



• Do inside test for each point in sequence, Insert new points when cross window boundary, Remove points outside window boundary



## Clipping to a Boundary



 Do inside test for each point in sequence, Insert new points when cross window boundary, Remove points outside window boundary

