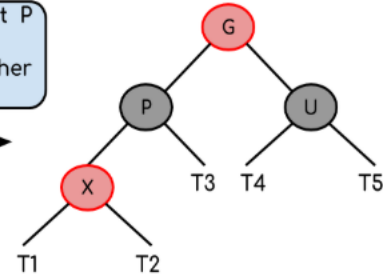
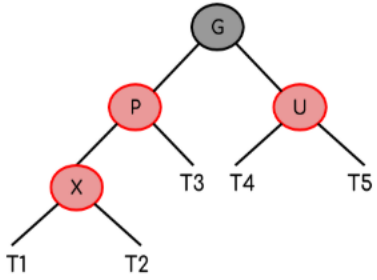


## Uncle is Red

1. Change the colour of X's parent P and uncle U to black.
2. Change the colour of its Grandfather G to red.

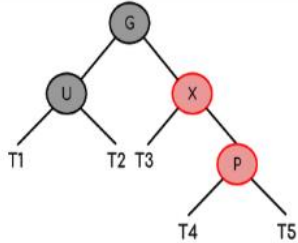
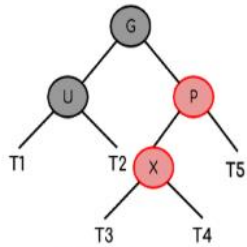


Current Tree Structure

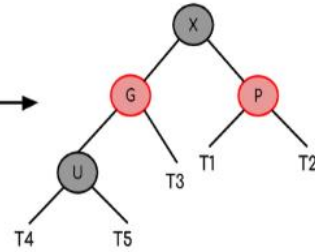
Resulting Structure

1. Repeat the all recolouring steps for Grandfather considering it as X.

1. Right rotate Parent P.
2. Now apply RR rotation case.



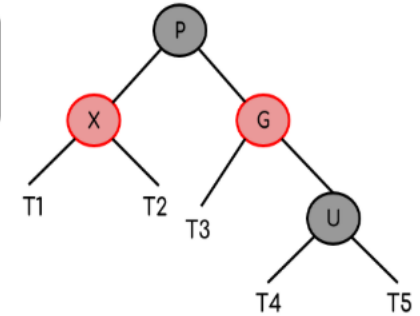
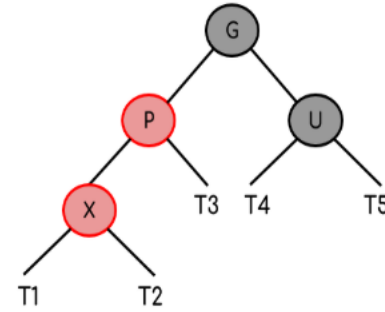
Intermediate Structure



Resulting Structure

## Uncle is Black

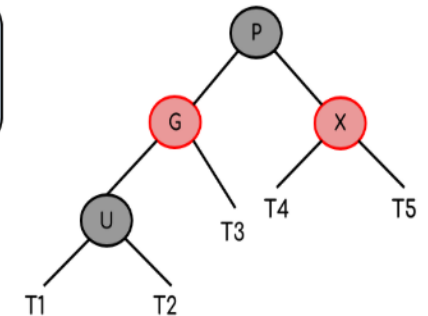
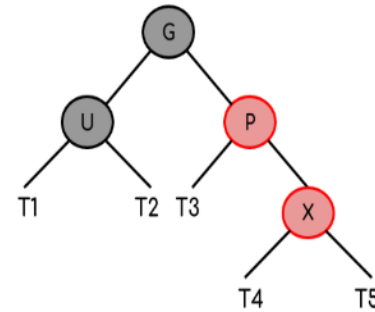
1. Right rotation of grandfather G.
2. Then swap the colours of Grandfather G and Parent P.



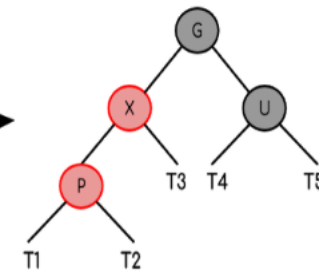
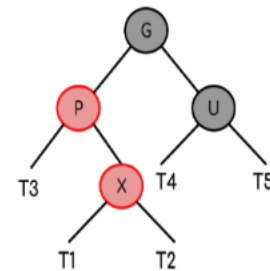
Current Tree Structure

Resulting Structure

1. Left rotation of grandfather G.
2. Then swap the colours of Grandfather G and Parent P.

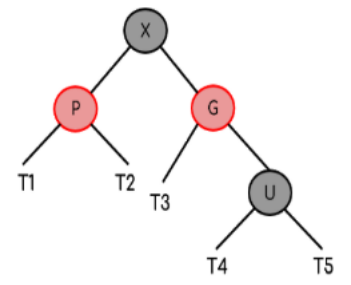


1. Left rotation of Parent P.
2. Then apply LL rotation case.



Current Tree Structure

Intermediate Tree Structure



Resulting Structure

