

# Euler Tour on a Tree

aka. Flattening a Tree

# How to Traverse the Tree?

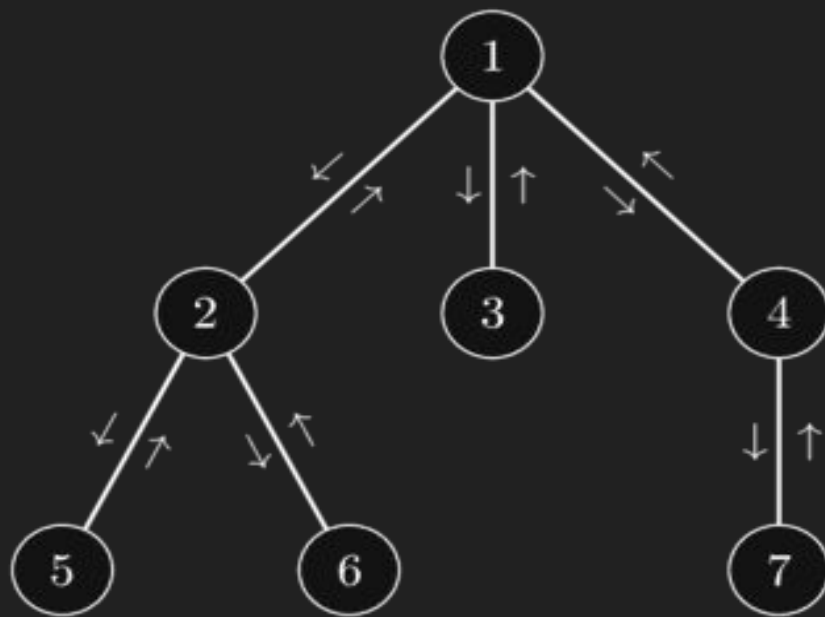
## What to store?

# 2 Types

- 1) Store the node every time you visit it
- 2) Store every node twice
  - When you visit it for the first time
  - When its whole subtree is explored

# TYPE 1

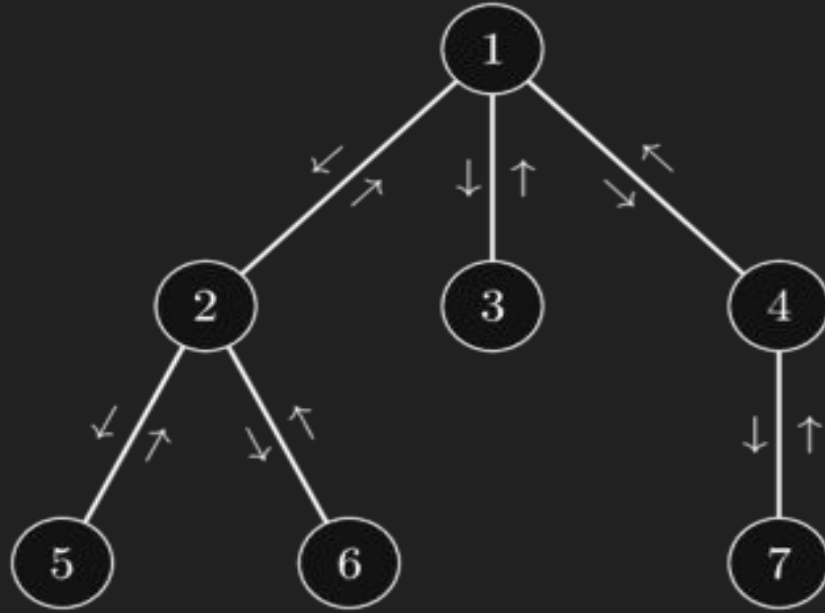
FooBar()  
{<insert code>}



1	2	5	2	6	2	1	3	1	4	7	4	1
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# TYPE 2

FooBar()  
{<insert code>}



1	2	5	5	6	6	2	3	3	4	7	7	4	1
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# Questions:



- Euler Tour + Segment Tree :  
<https://cses.fi/problemset/task/1137>
- Modified Euler Tour + Segment Tree :  
<https://cses.fi/problemset/task/1138>
- Same question modified to path from A to B
- LCA using Euler Tour -> RMQ Pre-requisite