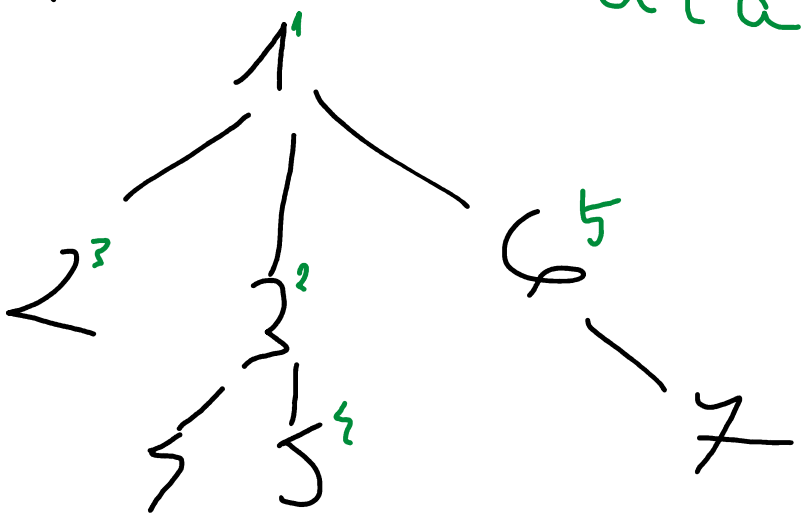
K07 - Omówienia

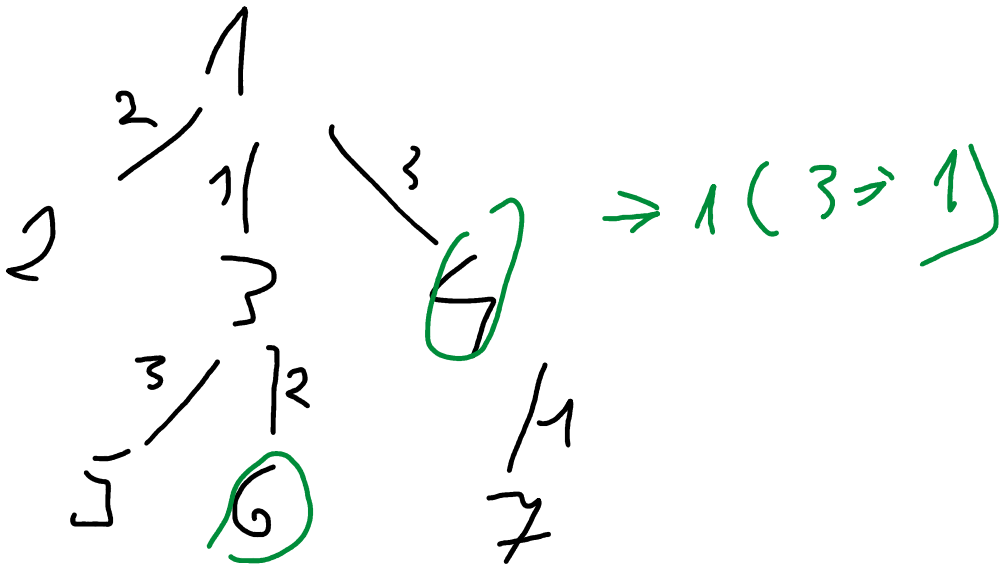
01 December 2023 16:32

kom:

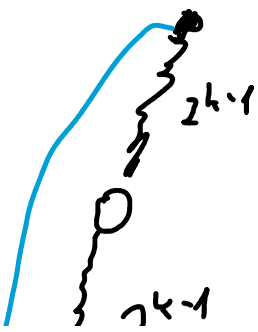


$d(a,b) = depth[a] + depth[b] - 2 \cdot depth[lca(a,b)]$

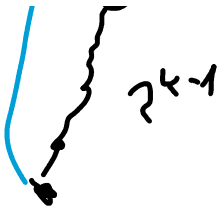
$\sum_{i=0}^{k} d((a_i, b_i))$



$\rightarrow 1 (3 \Rightarrow 1)$



$minE[v][k] = min(minE[v][4], minE[anc[v][k-1]][k-1])$



A = auc[A][k]
res = min(res, minF[A][k])

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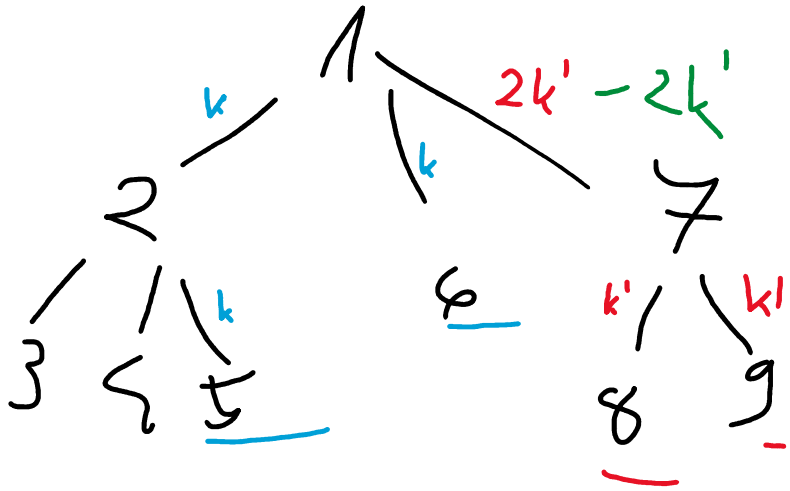
obc




```
dp[a] += k
dp[b] += k
dp[LCA(a, b)] -= 2k

dfs(s, p)
    for(v: g[s])
        if(v != p)
            dfs(v, s)
            dp[s] += dp[v]
```

gra

```
for (i=6  i<n  i++)
    for (j=1  j<=6  j++)
        dp[i] = max(dp[i], dp[i-j])
    dp[i] += in[i]
```

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tra

	1	2	3	4	5	6	7	8	9	10
1	0	4	4	4	4	4	4	4	4	4
2	6	5	5	9	9	9	9	9	9	9
3	0	5	5	9	9	9	9	9	15	

n × W

W	V
2	4
2	5
18	13

```
dp[W]
res = dp[W]
```

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sum

```
dp[i][0] = max(dp[i-1][0], dp[i-1][1])
           + in[i]
dp[i][1] = dp[i-1][0] + 7
res = max(dp[n][0], dp[n][1])
```