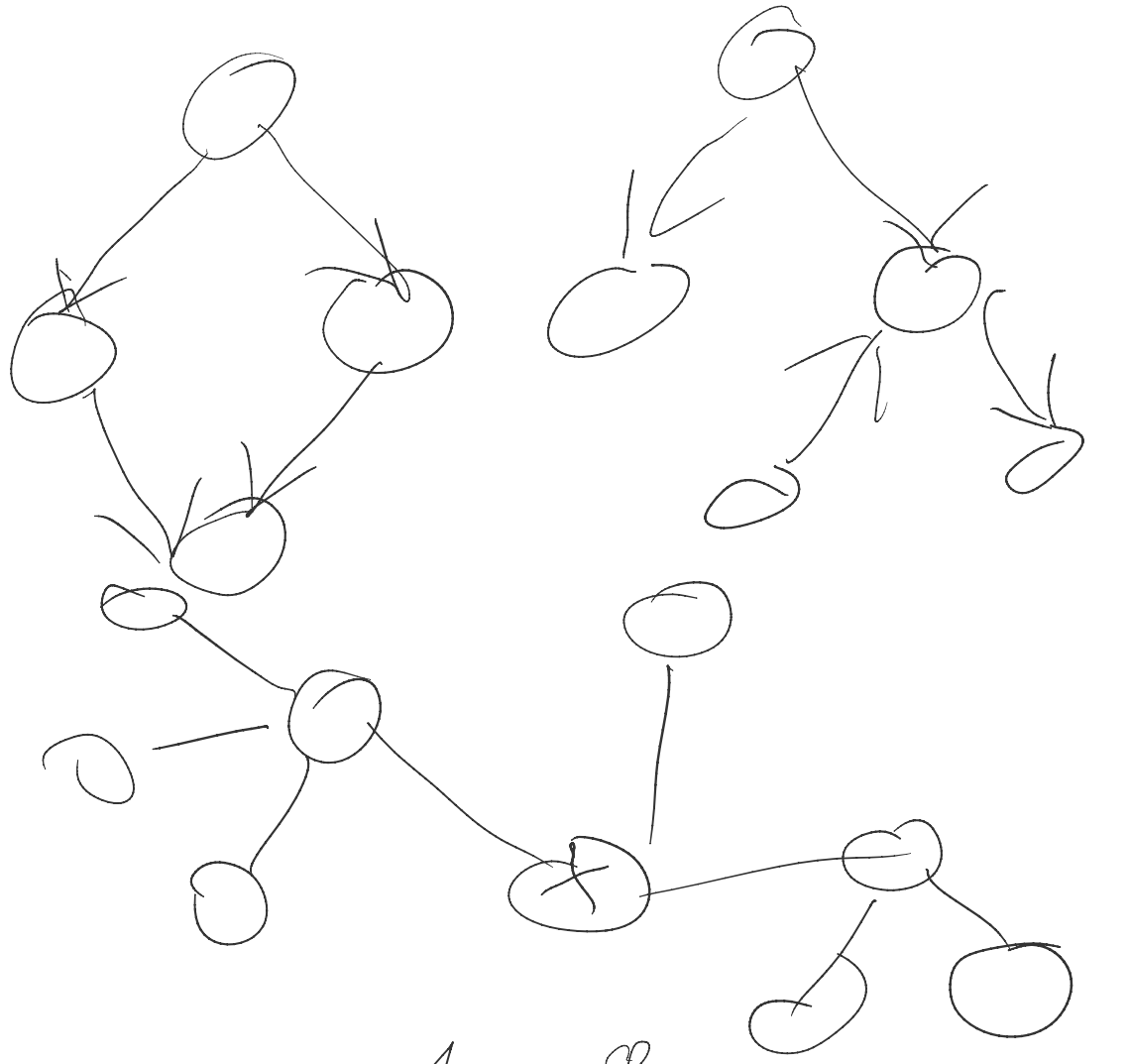
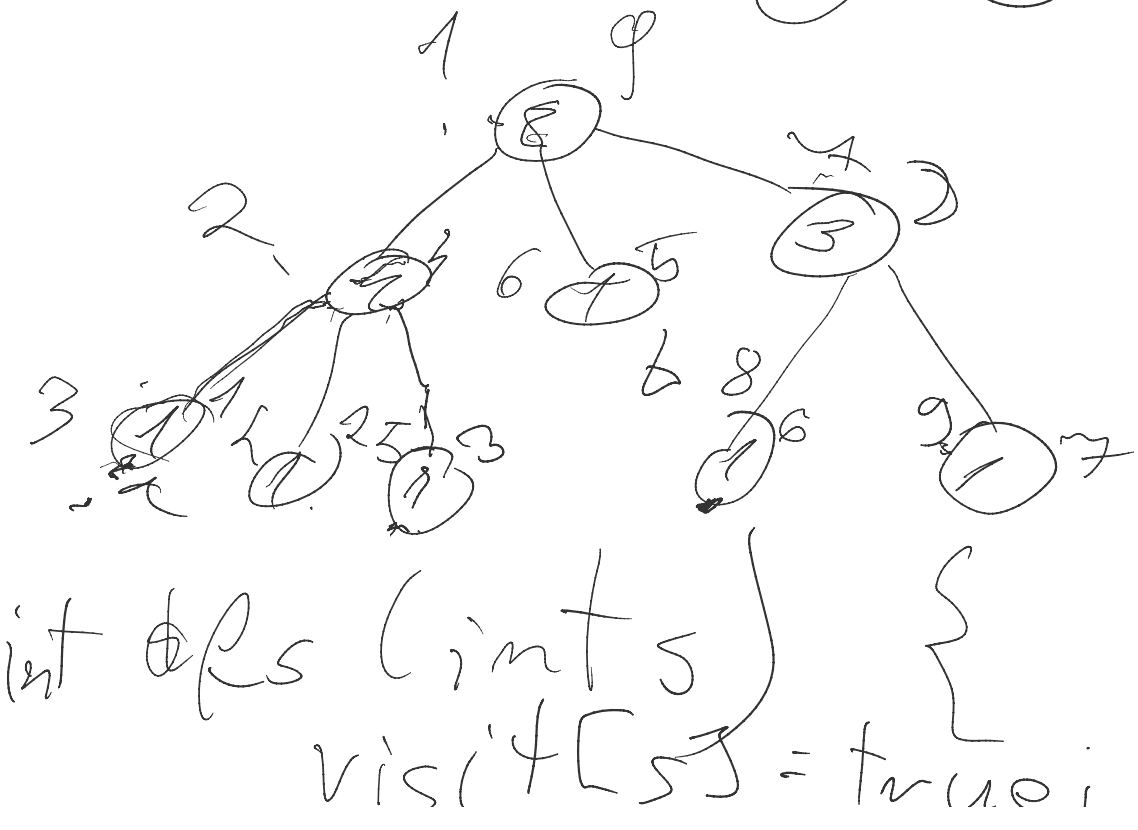
Drzewa 30.10

Friday, 30 October, 2020 16:43





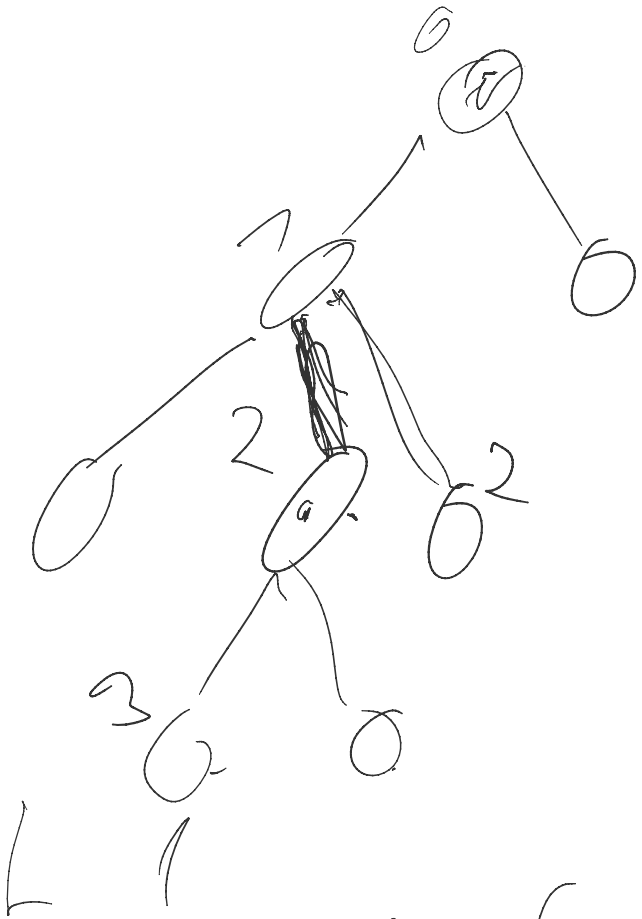
```
    visit[s] = true;
    for (x : g[s])
        if (!visit[x])
            w += dfs(x);
    return w + 1;
int dfs(int s, int p)
    for (x : g[s])
        if (x != p)
            w += dfs(x, s)
    parent[s] = p;

dfs(1, -1)

dfs(s, p)
    ++w;
```

for (x : g[s])
if (x != p)
dfs(x, s)

- - w ;



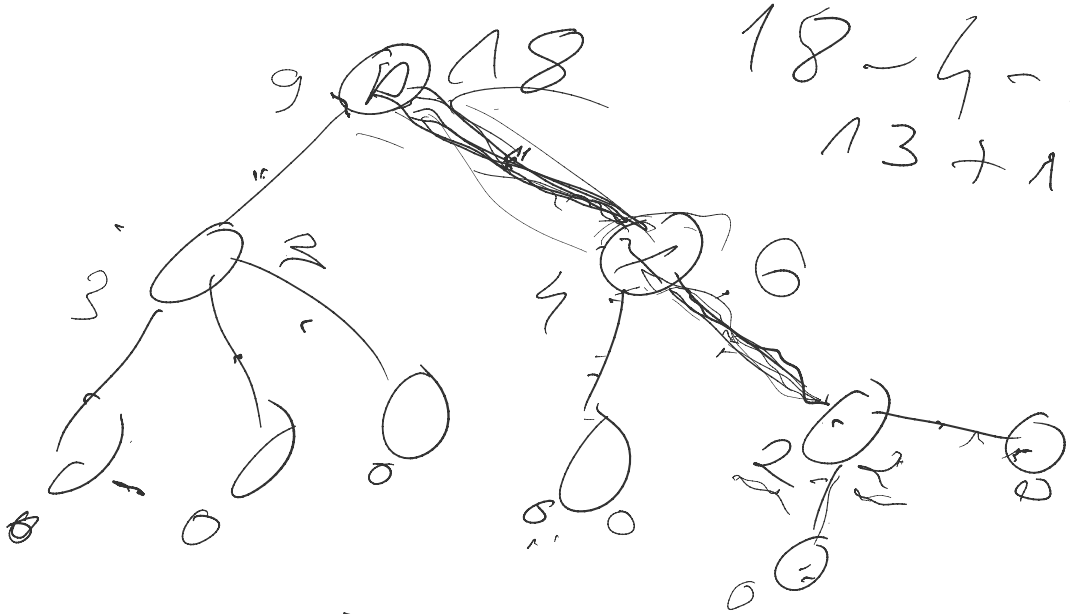
dfs (x) → a

dfs (a) → b

a → b - [illegible]

a → b - srednica

∃ c → b' → a → b



18 − 4 − 1 = 13

13 + 10 − 5 = 18

```
wyn[x] = wyn[p] - siz[x] - 1
wyn[x] += M - (siz[x] + 1)
for (i=0; i<n; ++i)
    v += wyn[i] * wyn[i];
    v %= MOD;
v *= v;
cout << v % MOD;
```