

Paint Subsets

Thursday, 25 June 2020 1:05 PM

IP-OP method

- Subset
- Subset duplicates + other variations
- Permutations in space
- Permutations in case change
- Josephus problem
- Print space string

Easy
Med

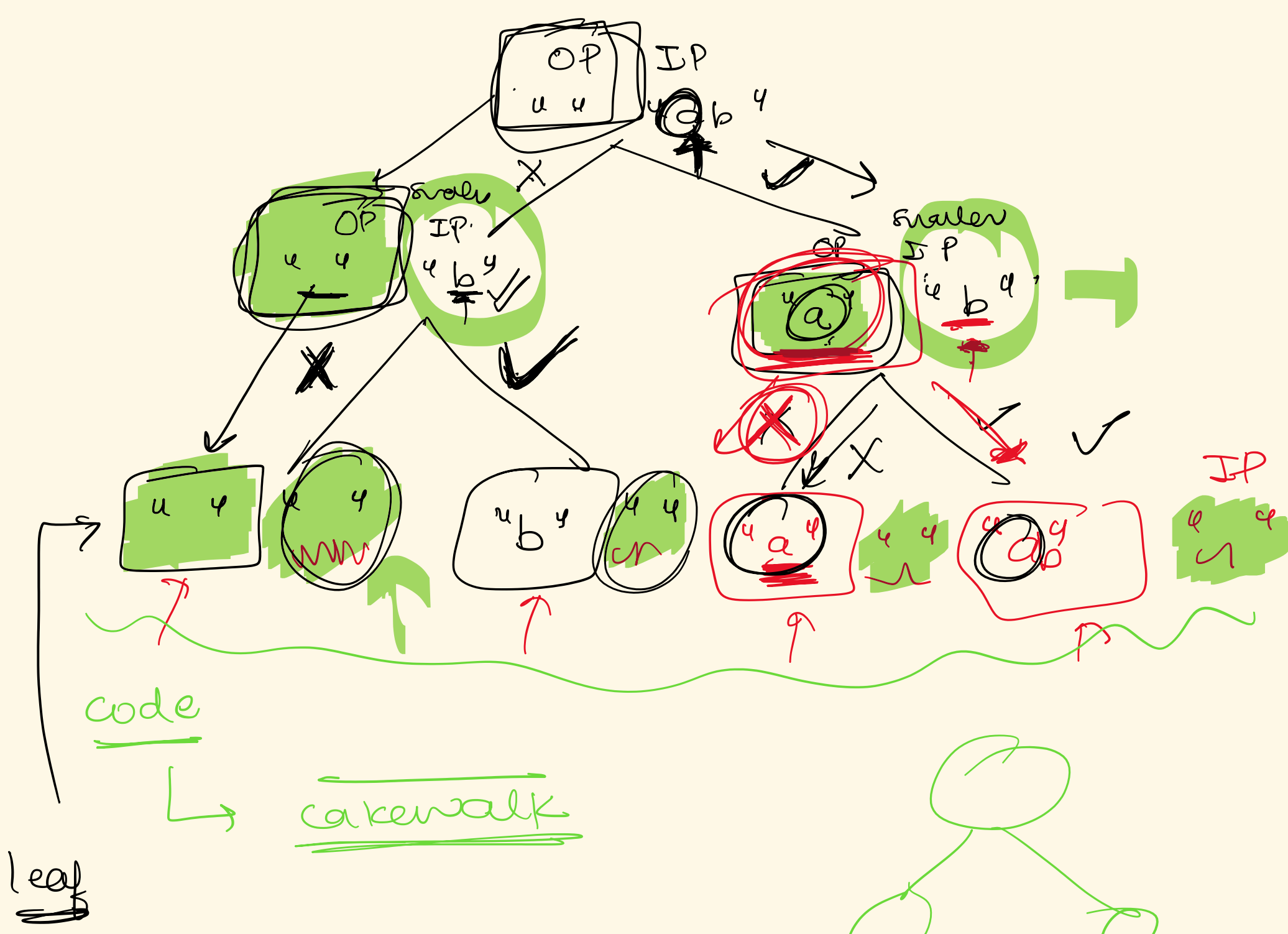
Subset → video 1st

Recall

ip = "ab"

op = ""

IP-OP RT



Code

```
void solve (string ip, string op)
{
    if (ip.length() == 0)
        cout << op << " ";
    return;
}
```

string op1 = op

string op2 = op

op2 = push_back (ip[0])

ip.erase (ip.begin() + 0)

ab → b

Iterator

solve (ip, op1)

solve (ip, op2)

return

int main ()

{ string ip;

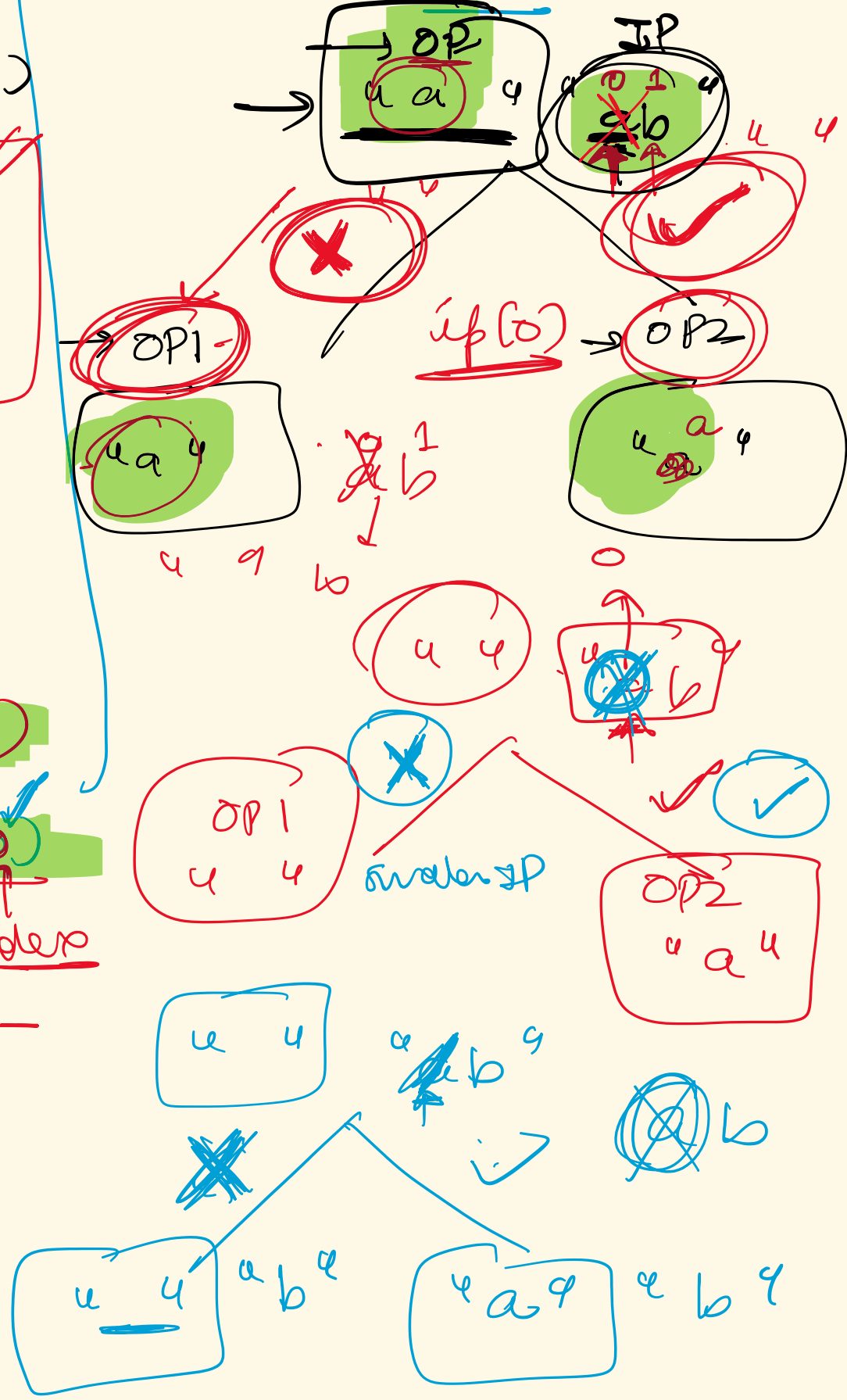
cin >> ip;

string op = ""

→ solve (ip, op)

Paint

RT



OP

IP

u u

a b

OP IP

u u a b

OP IP

u u a b

OP IP

u u a b

OP IP

u u a b

OP IP

u u a b

OP IP

u u a b

OP IP

u u a b

OP IP

u u a b

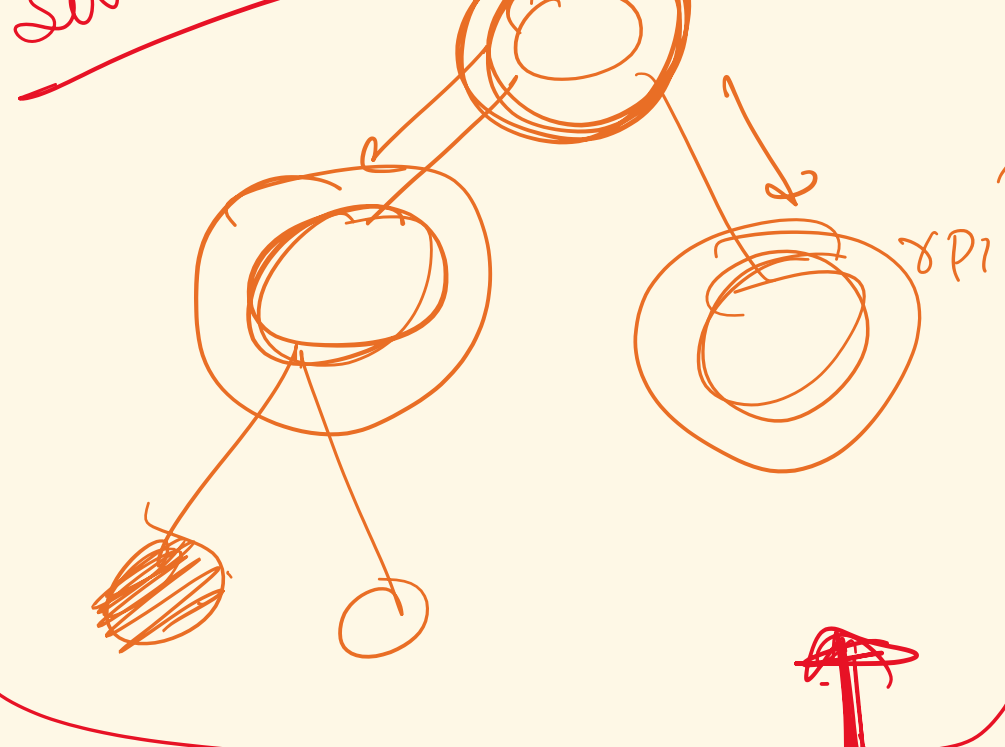
OP IP

u u a b

OP IP

u u a b

Sum up



Code

Base

case

→

→

ip.erase

solve (

solve (

Notes

+ code

Pattern

Tricks