

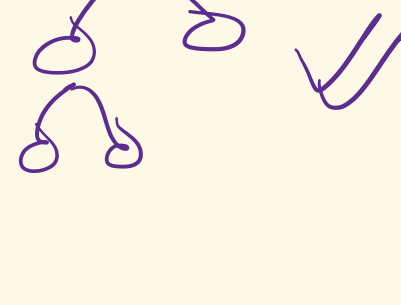
# Permutation with spaces

Flow

Problem Statement

IP-OP (RT)

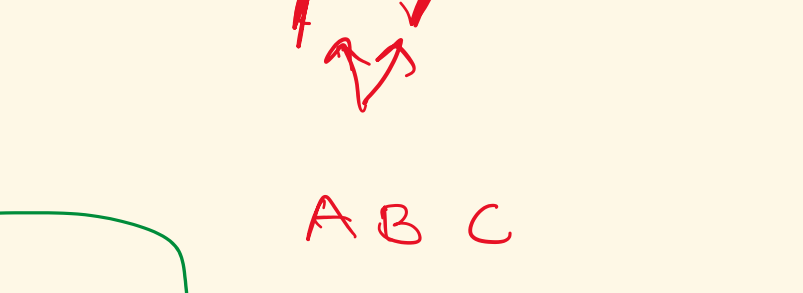
Code



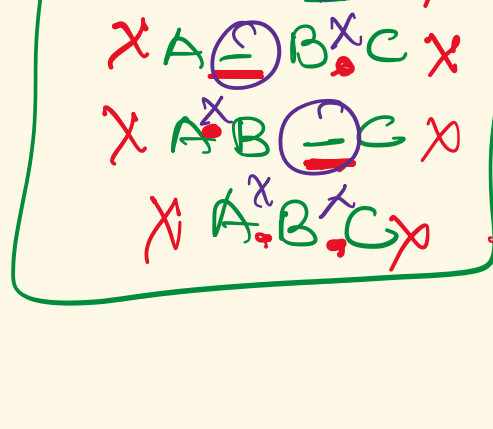
IP

ABC

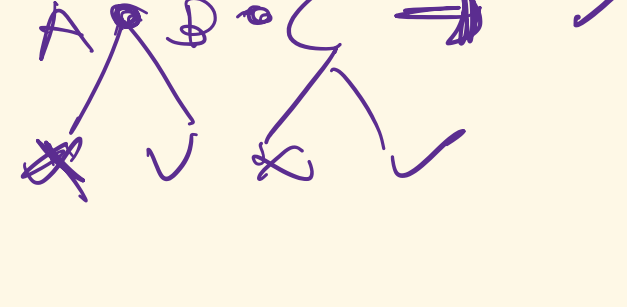
RS



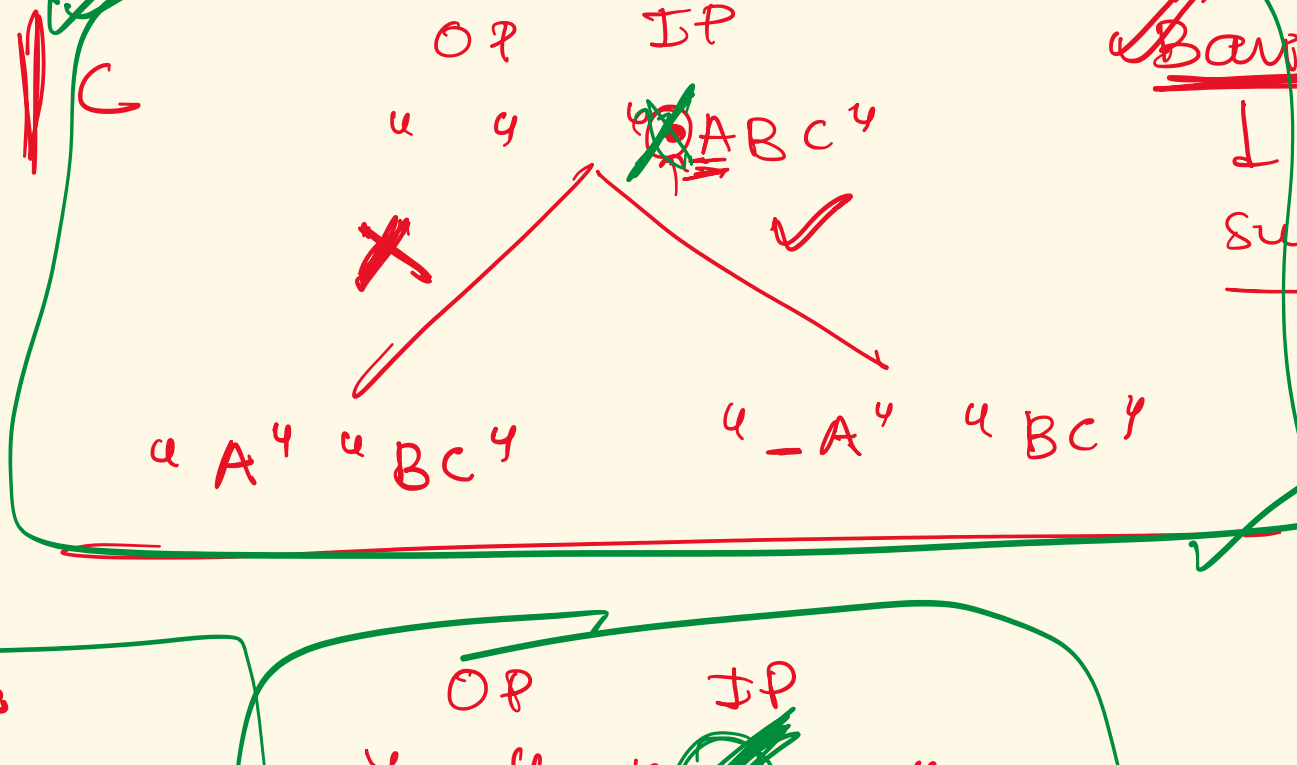
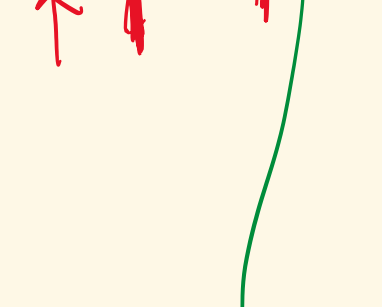
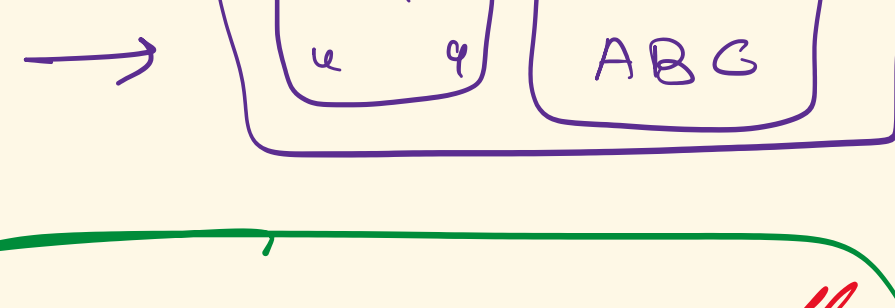
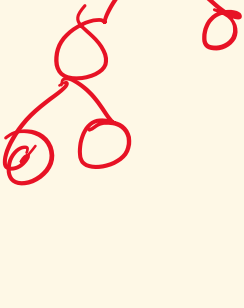
OLP



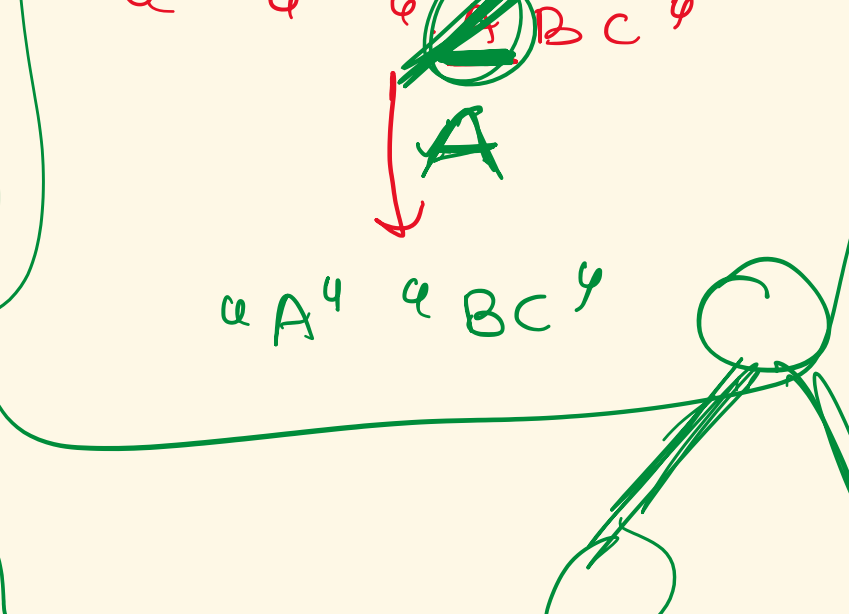
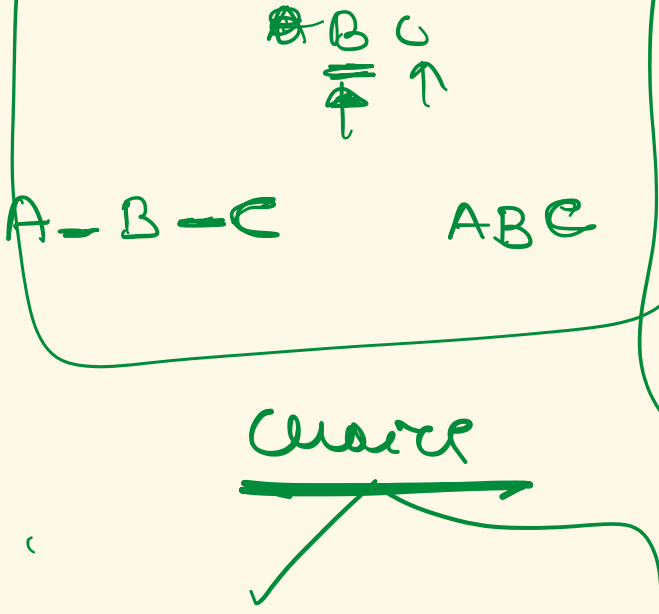
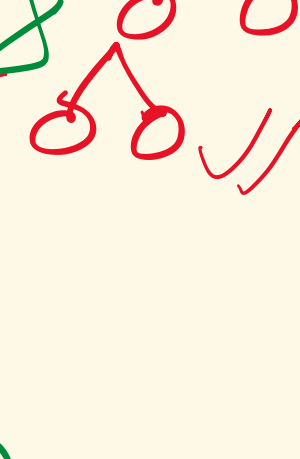
$\frac{1}{2} A - B - C -$



Permutation Tree (IP-OP)

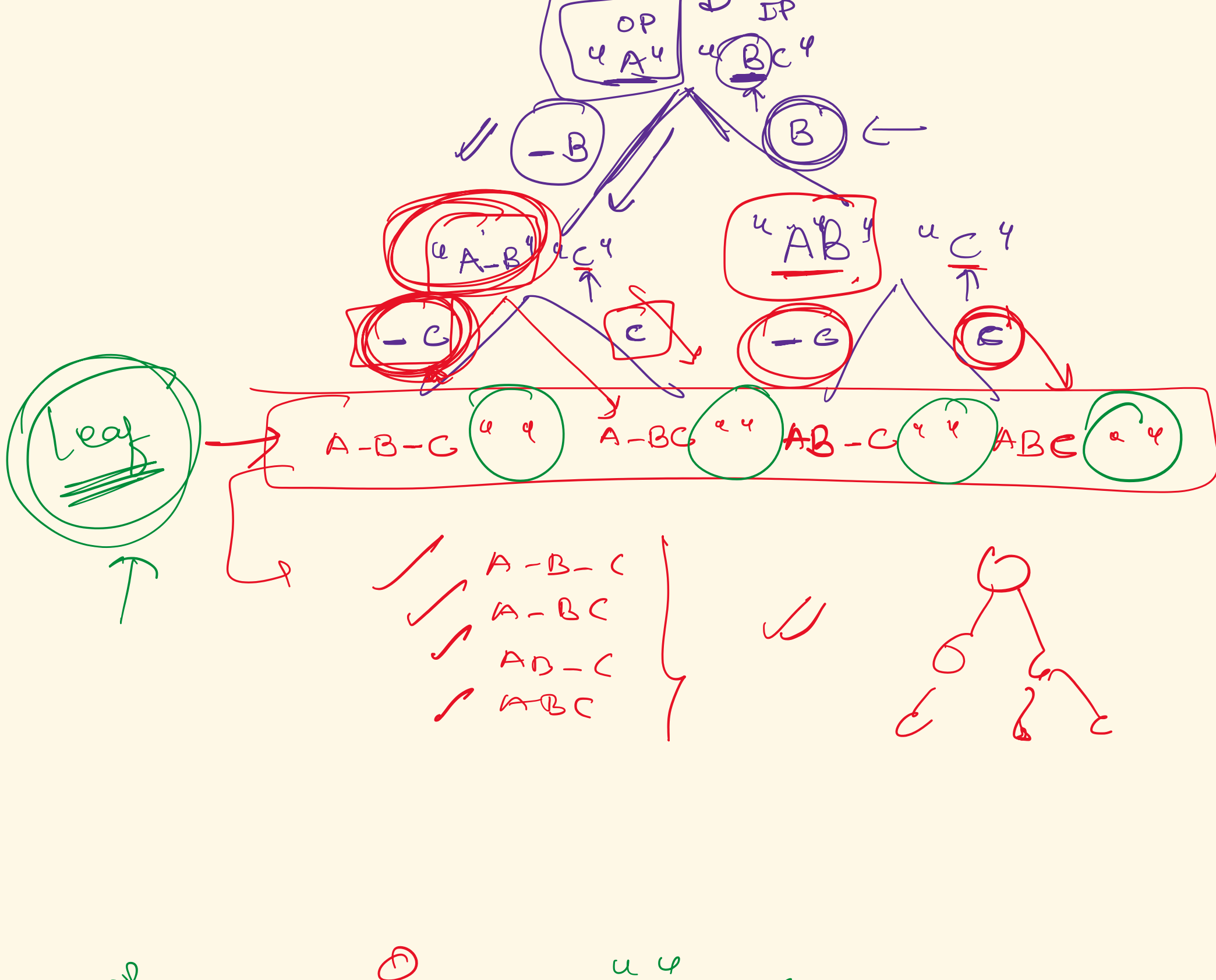


Basic  $\rightarrow$  Subset

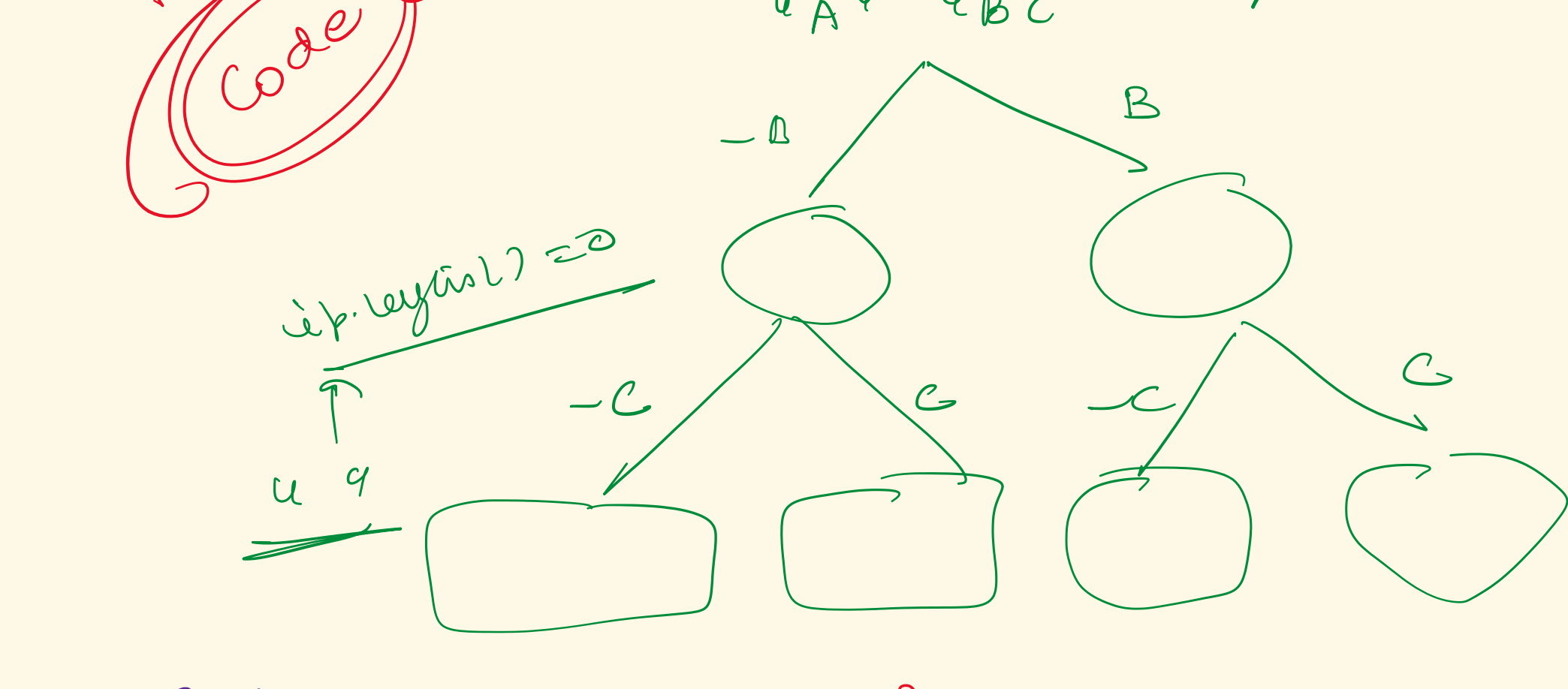


Choice  
include that letter with space  
include that letter without space

OP IP



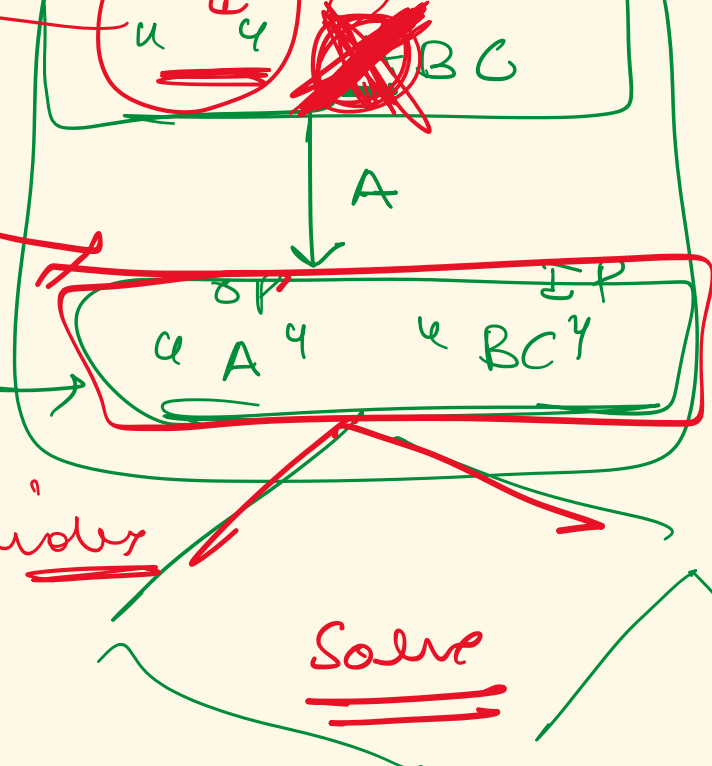
Sumop



Code

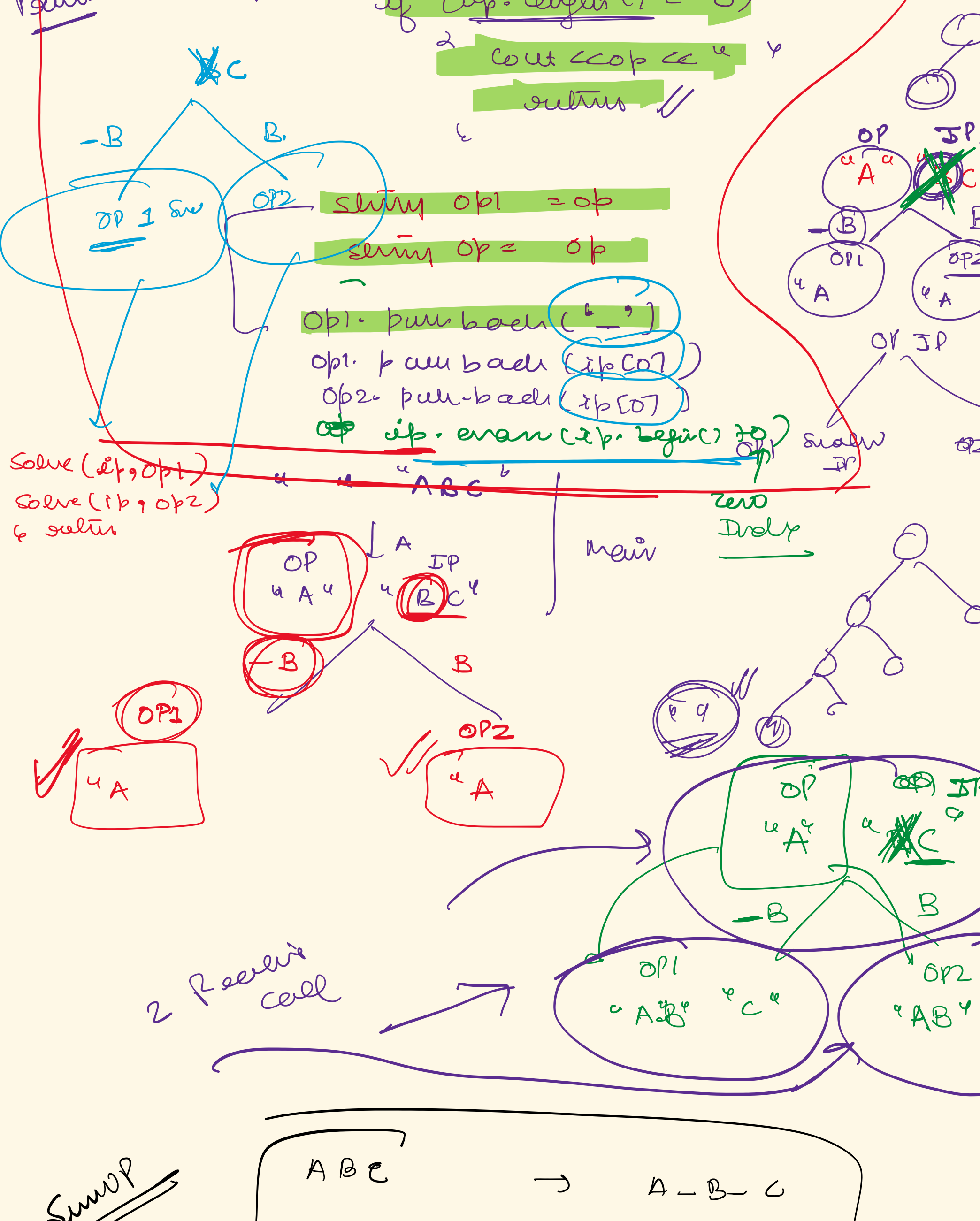
CPP

```
void main()
{
    string ip;
    cin >> ip;
    string op = "";
    solve(ip, op);
}
```

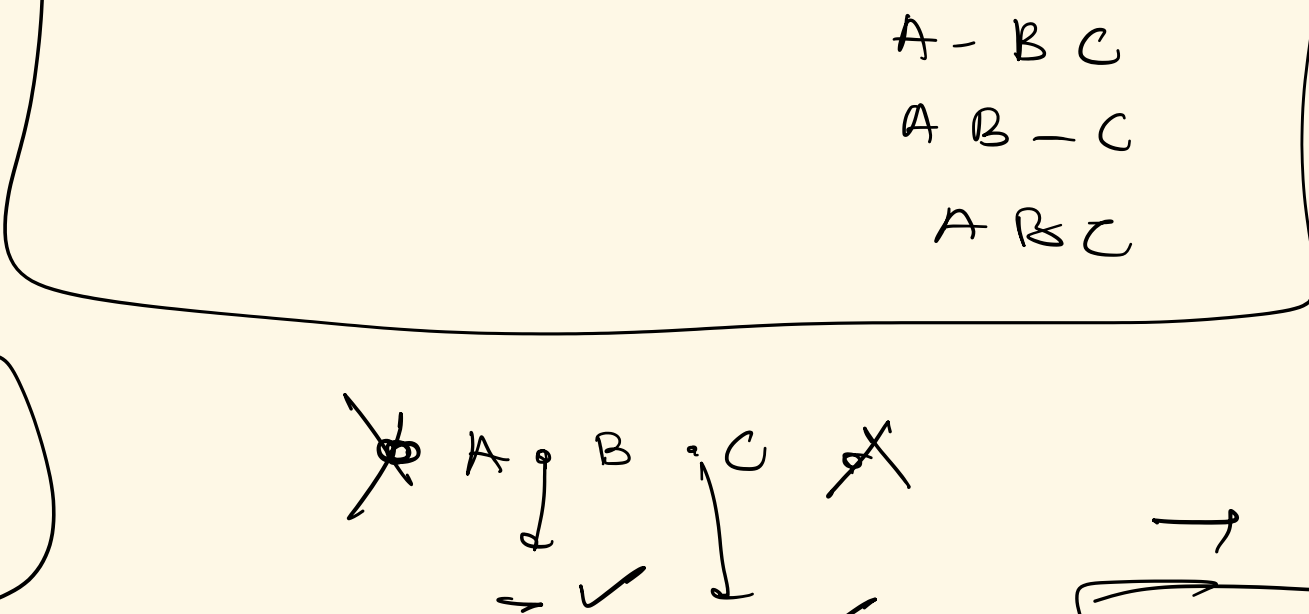


Solve  $\rightarrow$  ip back (ip[0]) index  
if erase (ip.begin() + 1)

Solve (ip, op)



Sumop

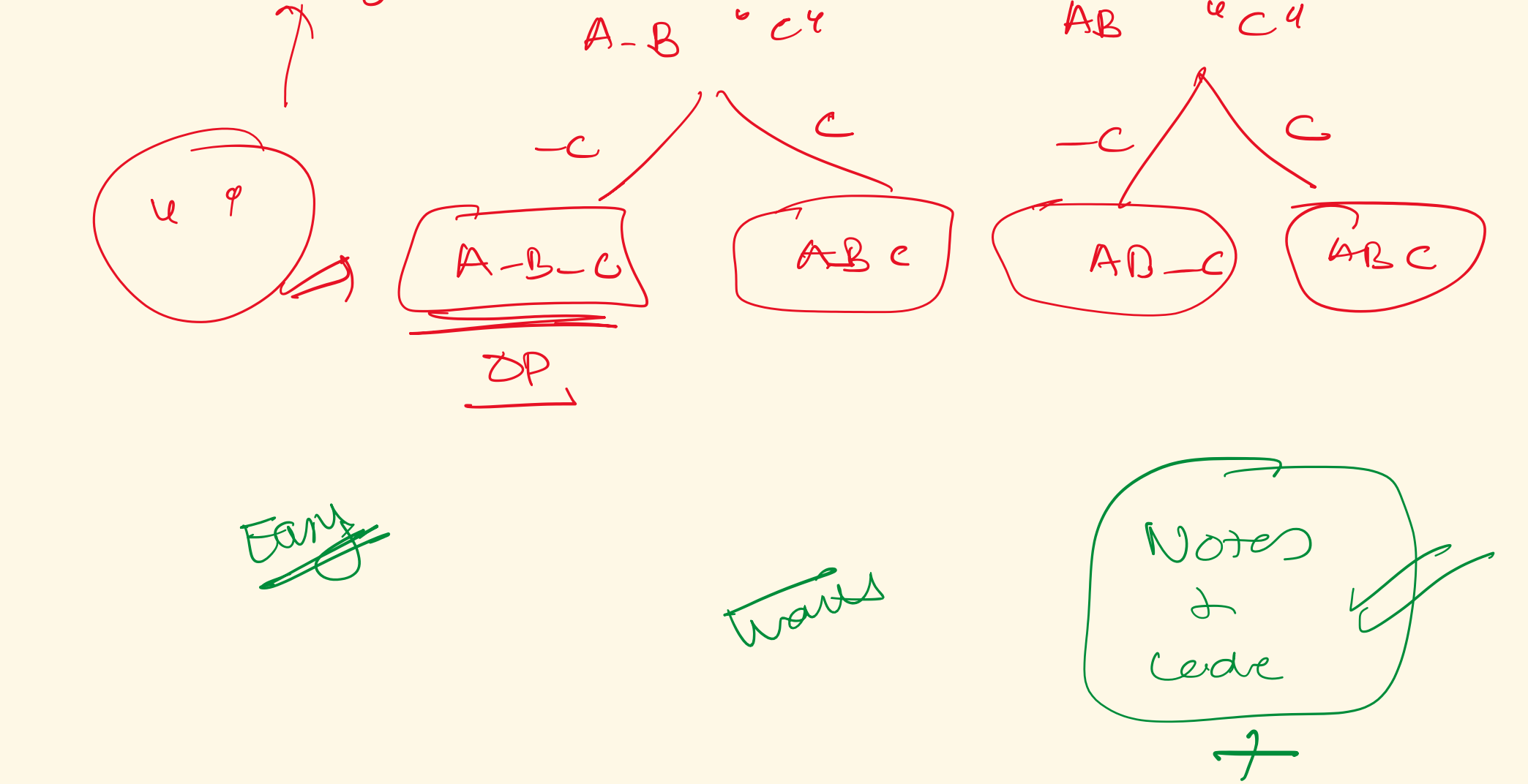


Choice + branch



Recursion IP-OP

Base case



Easy

Ways

Notes + Code

7 cool