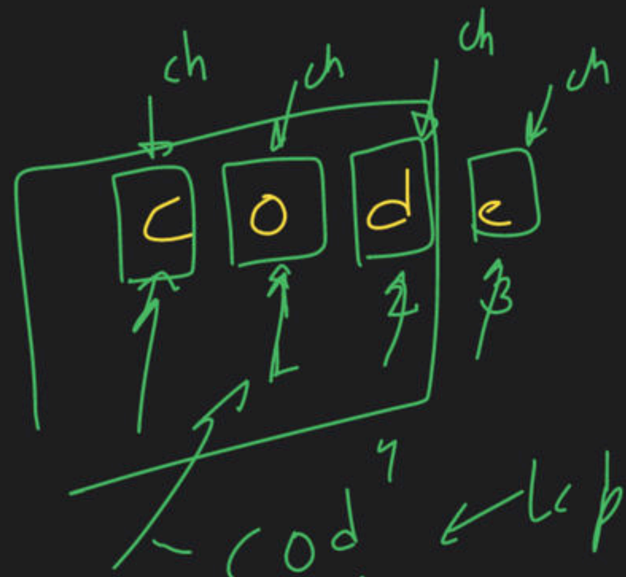
Hashmaps & Tries - Class 3

Special class

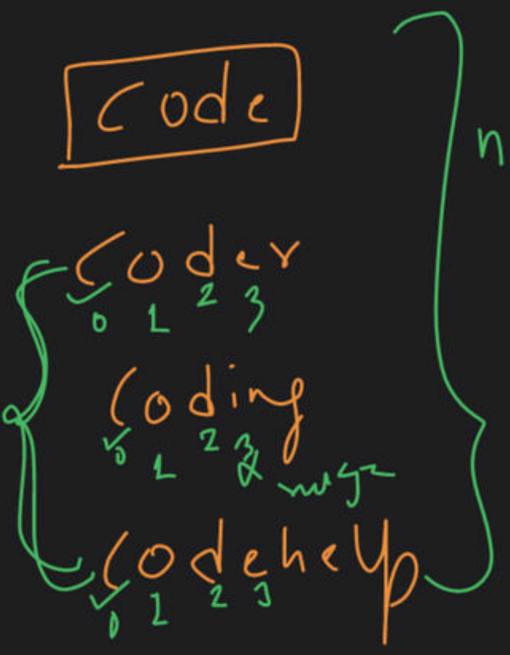
Love Babbar • June 2, 2023

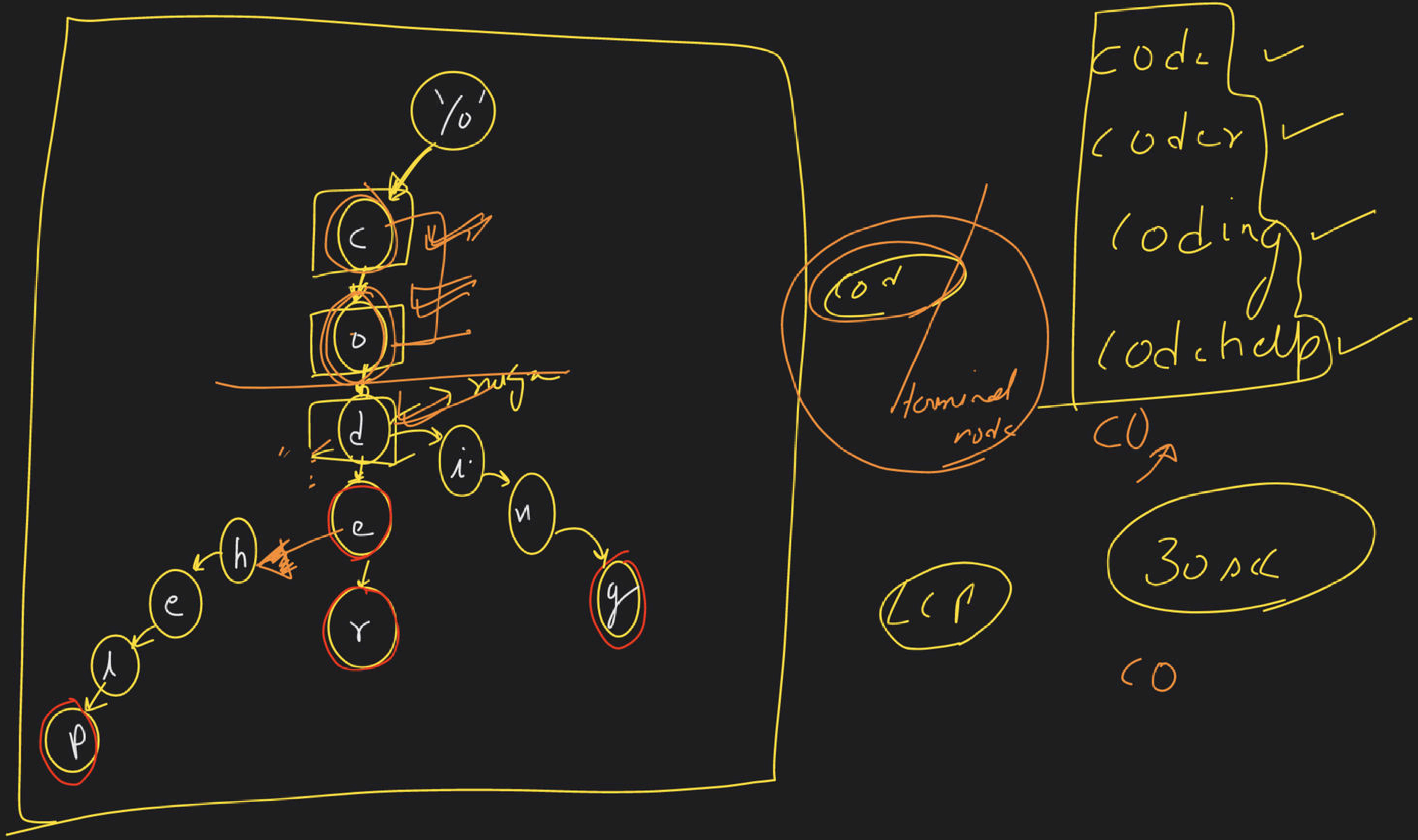
Trie → D.S → Multi way tree → Pattern matching

#1



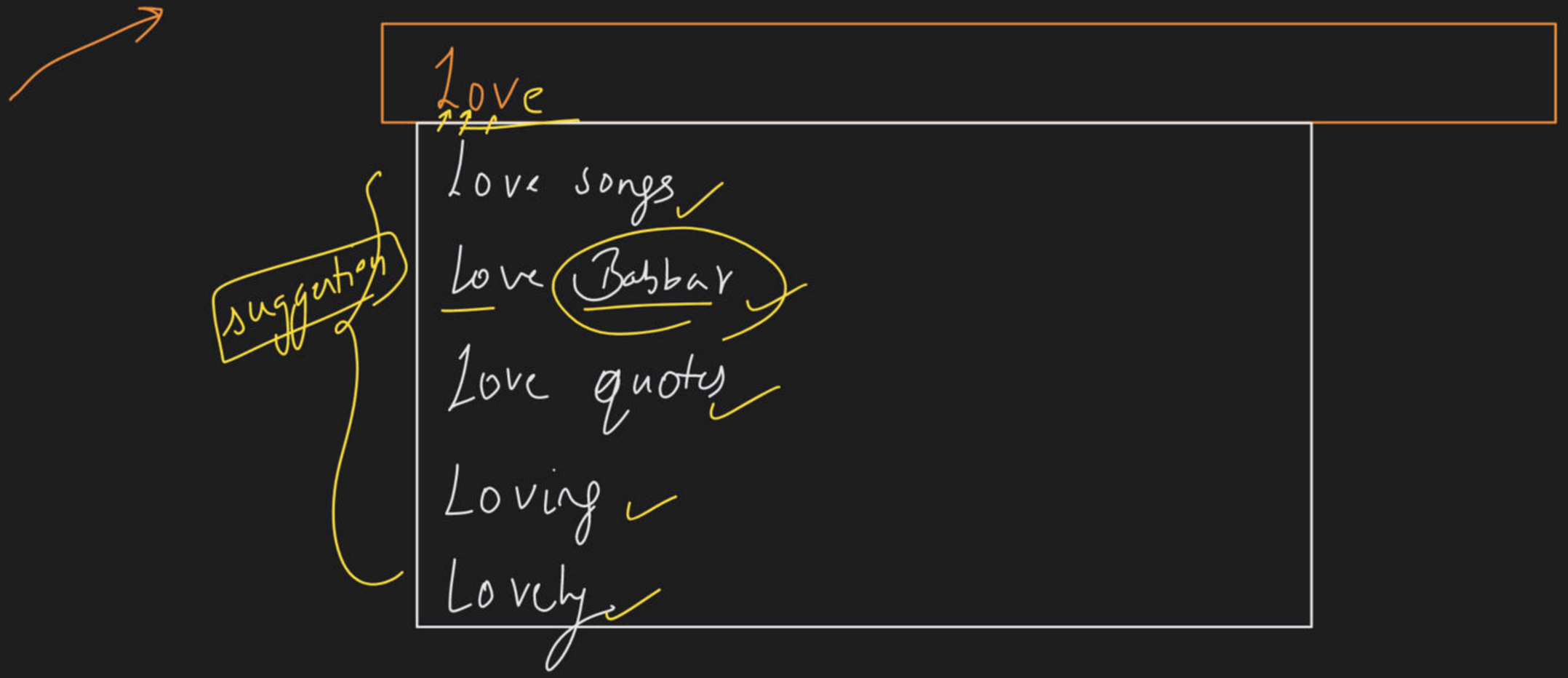

```
for (          )
{
    ch →
    for (n-1 times)
    {
        //math
    }
}
```

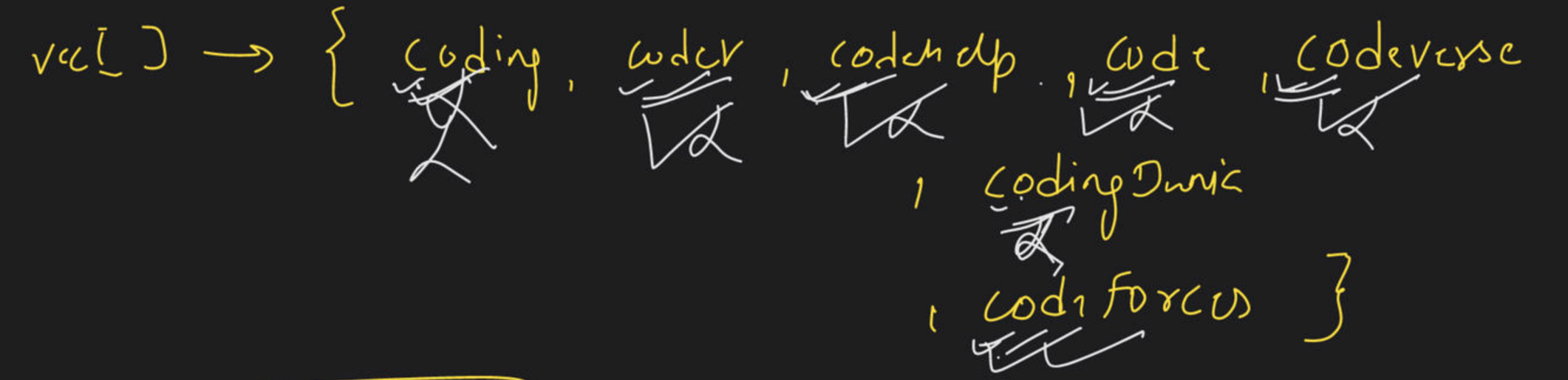


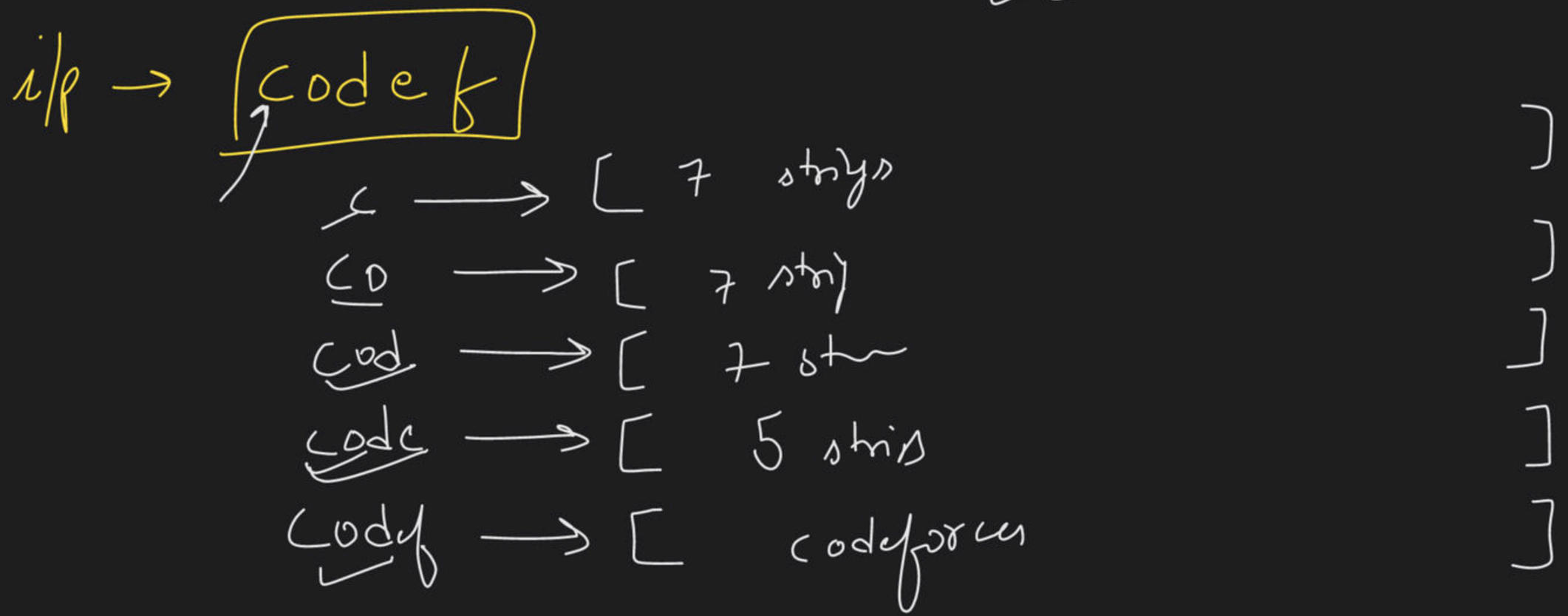


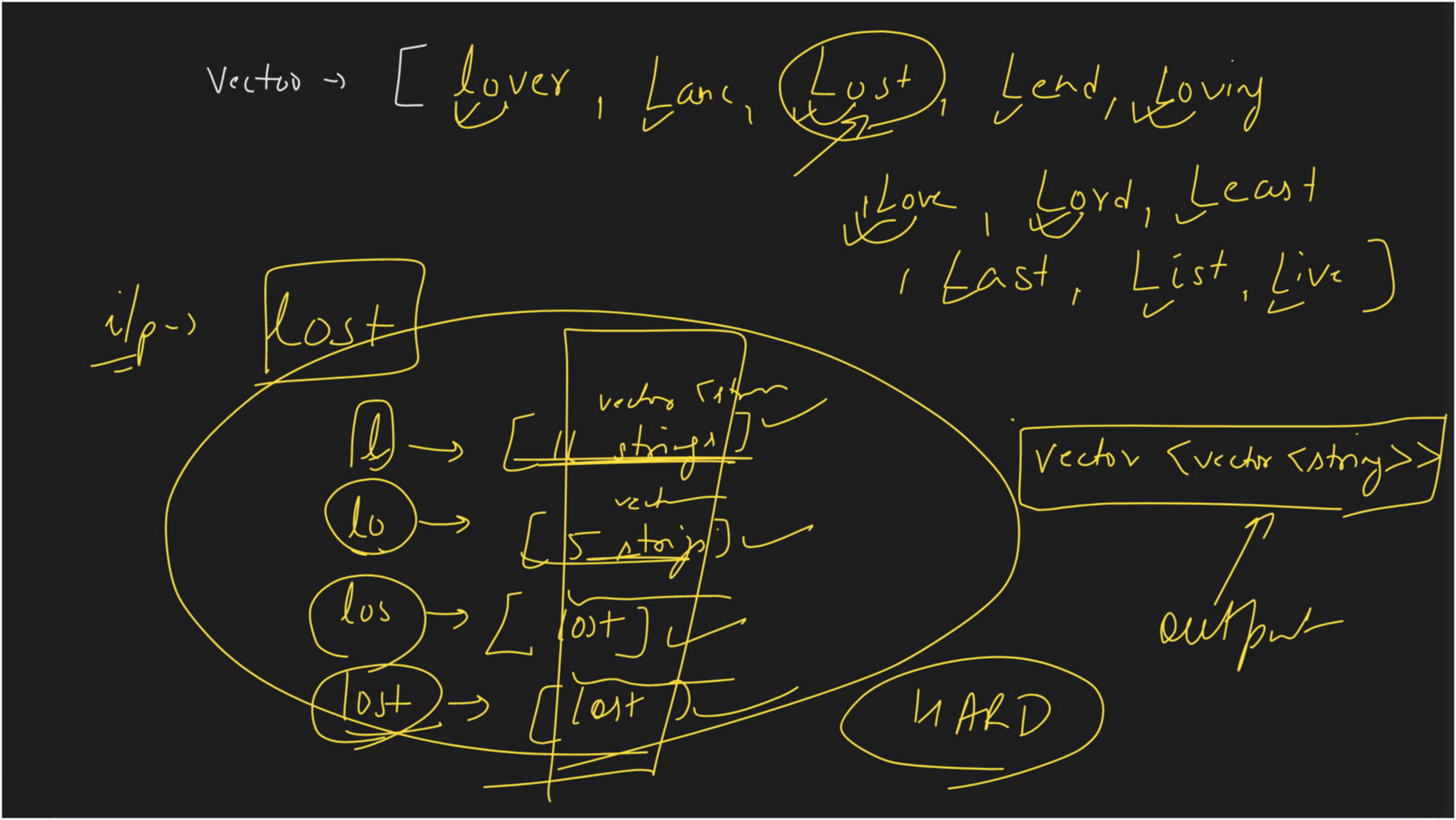
'\0'
c
o
d
e
r
h
e
l
p
i
n
g
code
coder
coding
codehelp
cod
terminal node
CO
30sec
LCP
CO

1st Question


love
love songs
love Babbar
love quotes
Loving
Lovely
suggestion

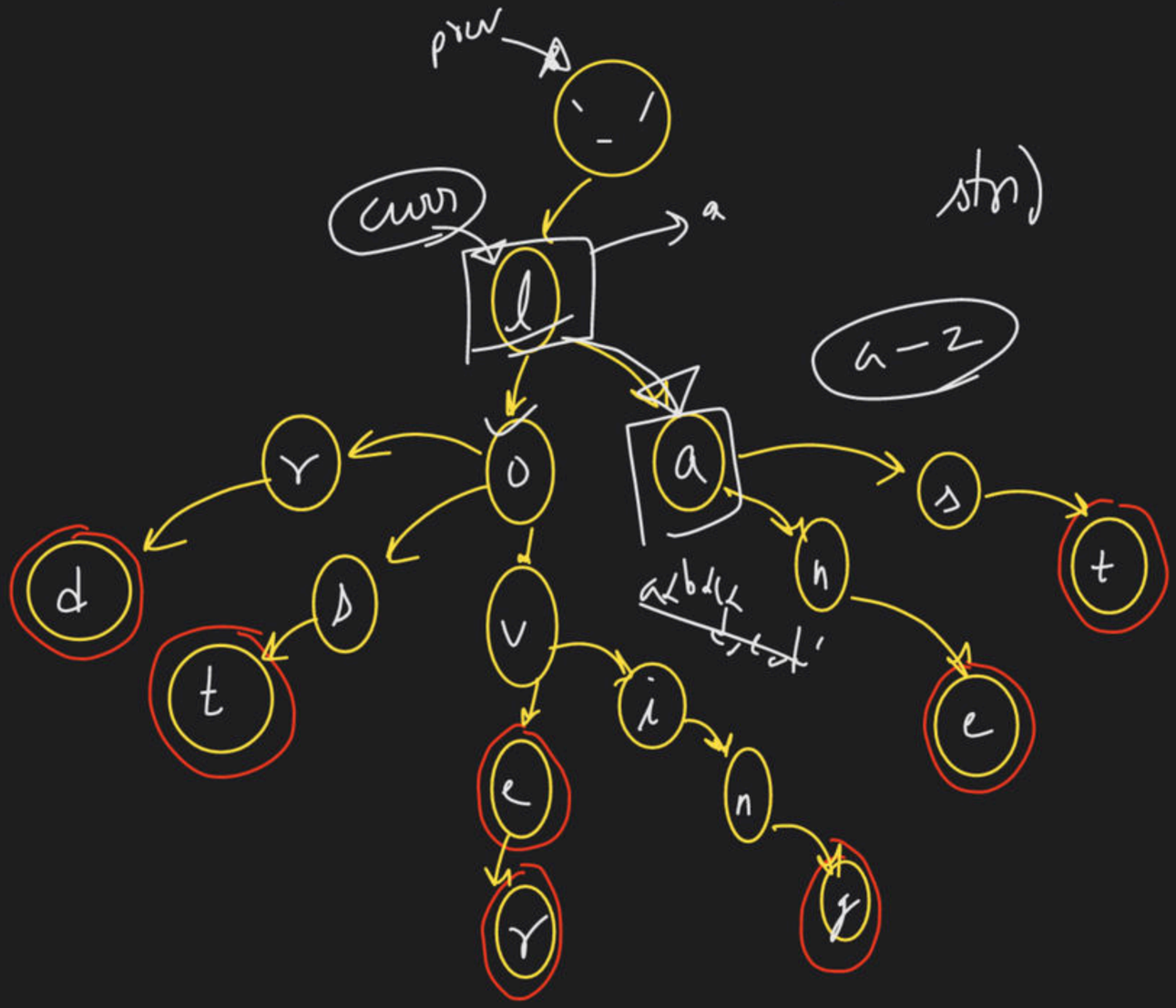

vec[ ] → { coding , coder , codechdp , code , codeverse
, codingDunia
, codiforces }


i/p → codek
c → [7 strings]
co → [7 strings]
cod → [7 strings]
code → [5 strings]
codef → [codeforces]


Vector → [Lover , Lane , Lost , Lend , Loving
Love , Lord , Least
, Last , List , Live]
i/p →
lost
l
lo
los
ost
vector<string>
vector
[lost]
[lost]
Vector <vector <string>>
output
HARD

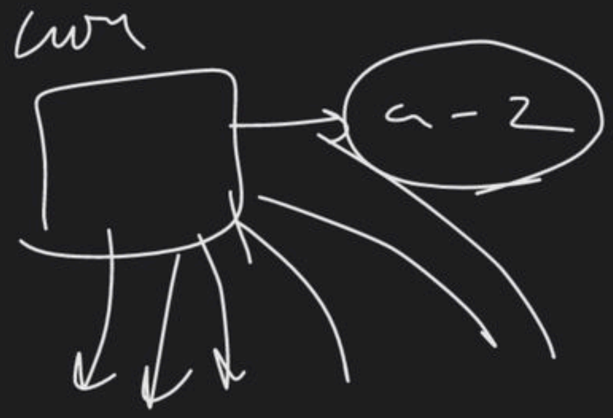
Vectors → [Love, lover, loving, lane, last, lost, lord]

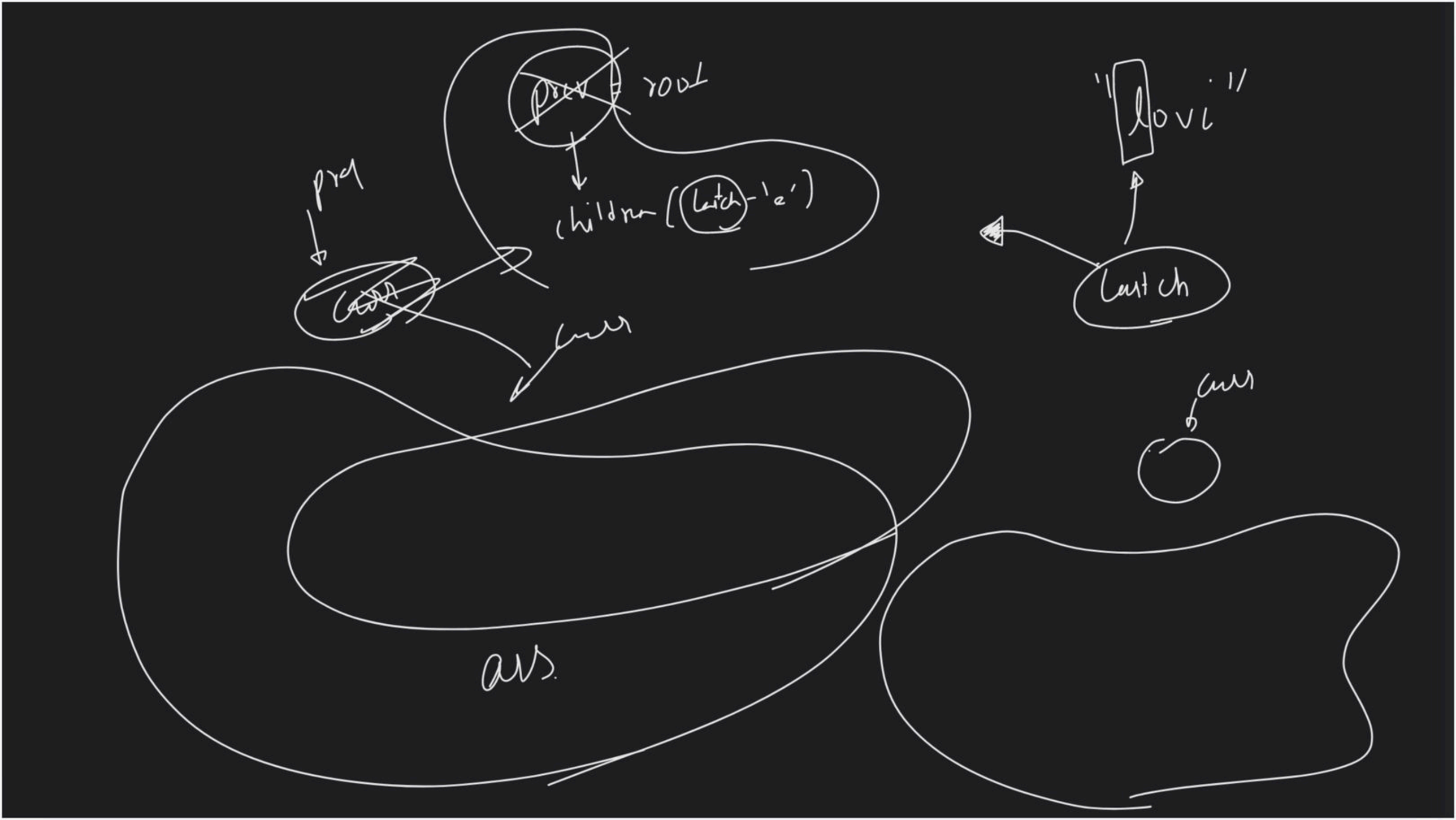
i/p → "lovi"



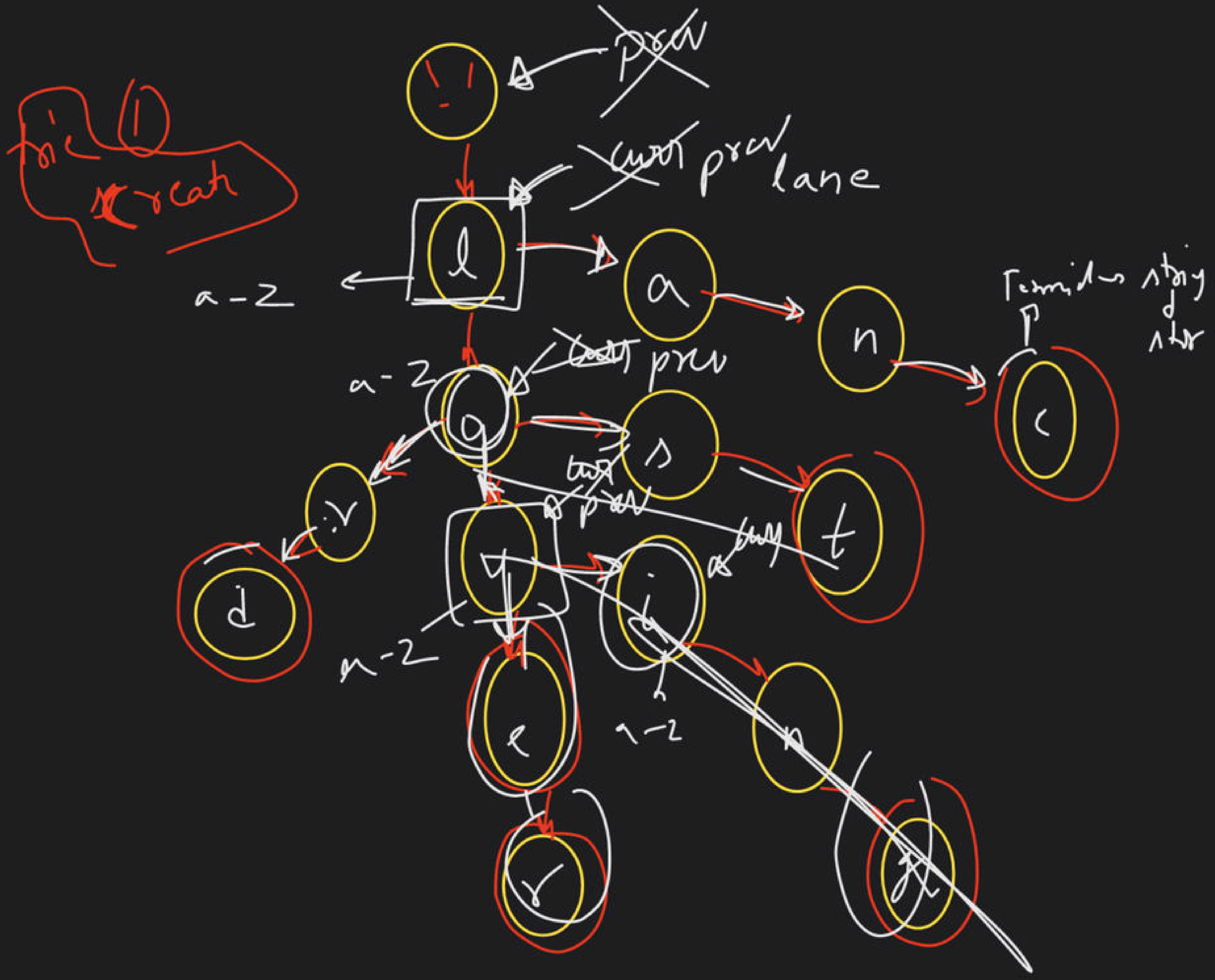
str)

l →




root
"love"
latch
ans.

vec → [Love, lover, loving, lost, ~~trust~~, lane, lord]



lovi

l → [lane, lord, love, lover, lost, loving]

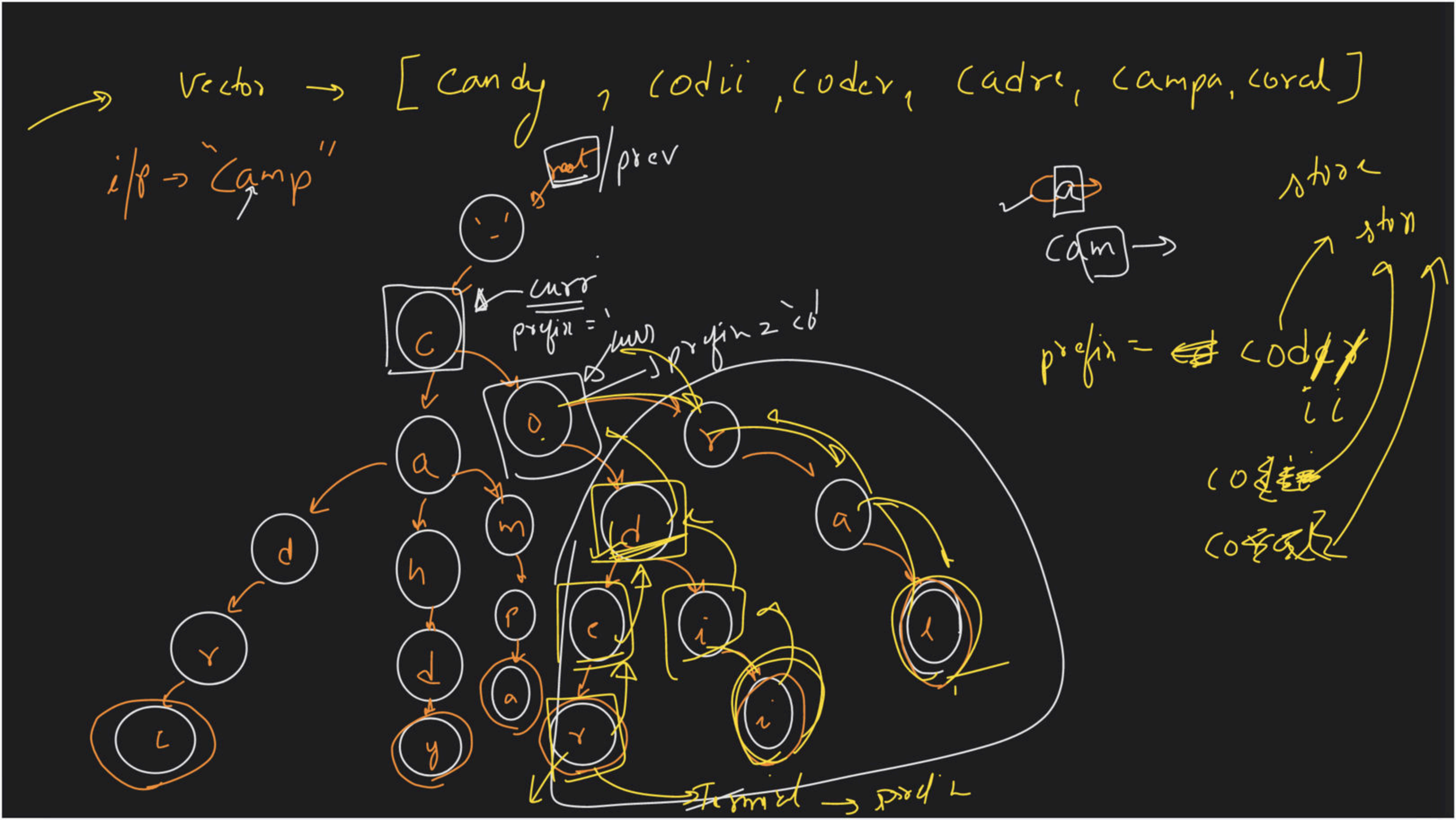
latch

l o → lost, loving, love, lover, lord

latch

lov → loving, love, lover

lovi → loving


Vector → [candy, codii, coder, cadre, campa, coral]
i/p → "camp"
root/prev
curr
prefix = ''
prefix = 'co'
Terminal → prod'L
store
prefix = code
ii

m - len str2

↳ this

$O(m \times n \times m)$

$O(nm^2)$