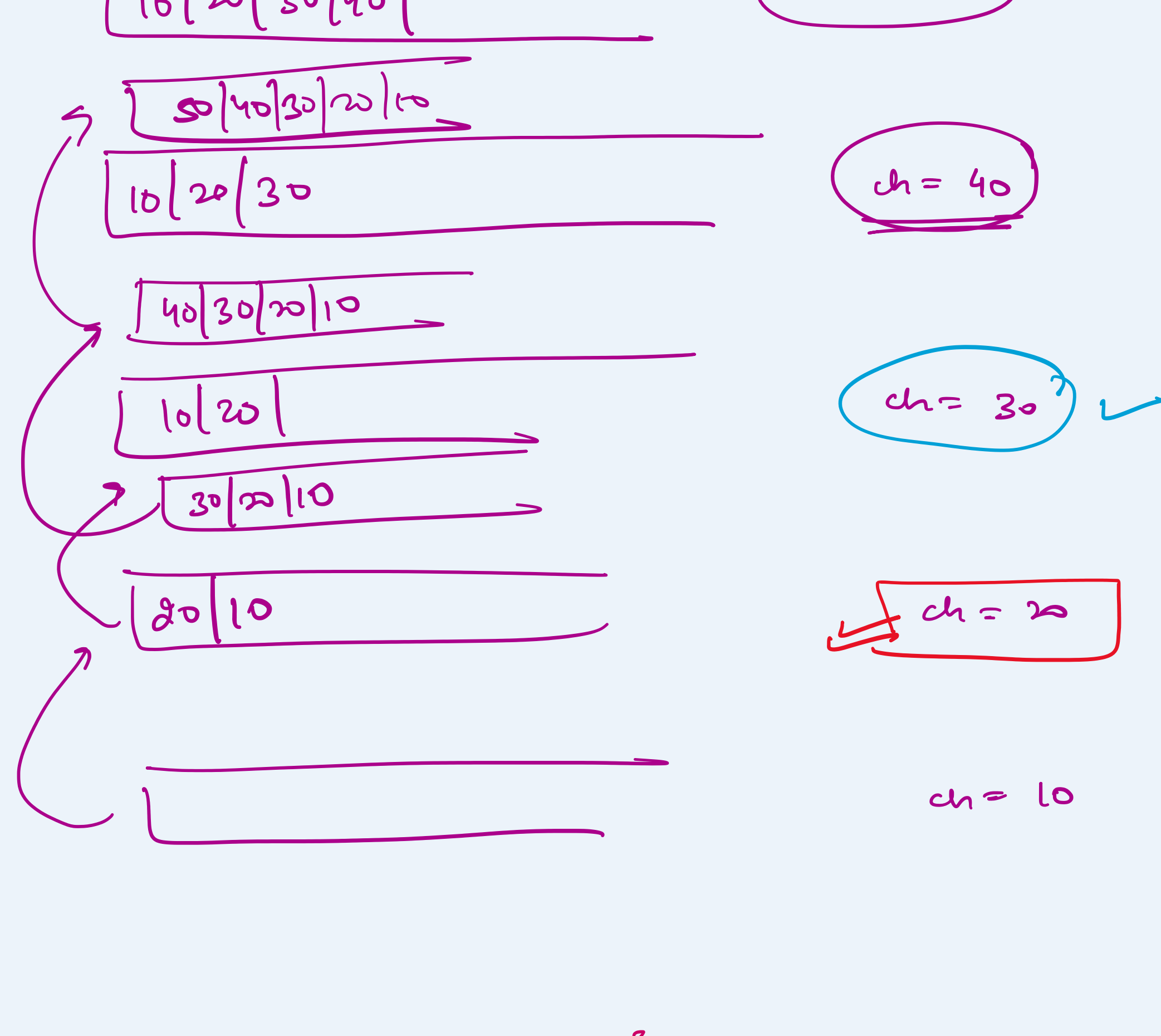


Q Given a stack, reverse it.

10 20 30 40 50

50 40 30 20 10



```
reverse() {
    if (s == empty) return;
    ch = s.pop();
    reverse();
    InsertAtBottom(ch);
}
```

3

Q Given a string, remove the consecutive duplicates in the string.

Eg: "kabbaal" → kaal

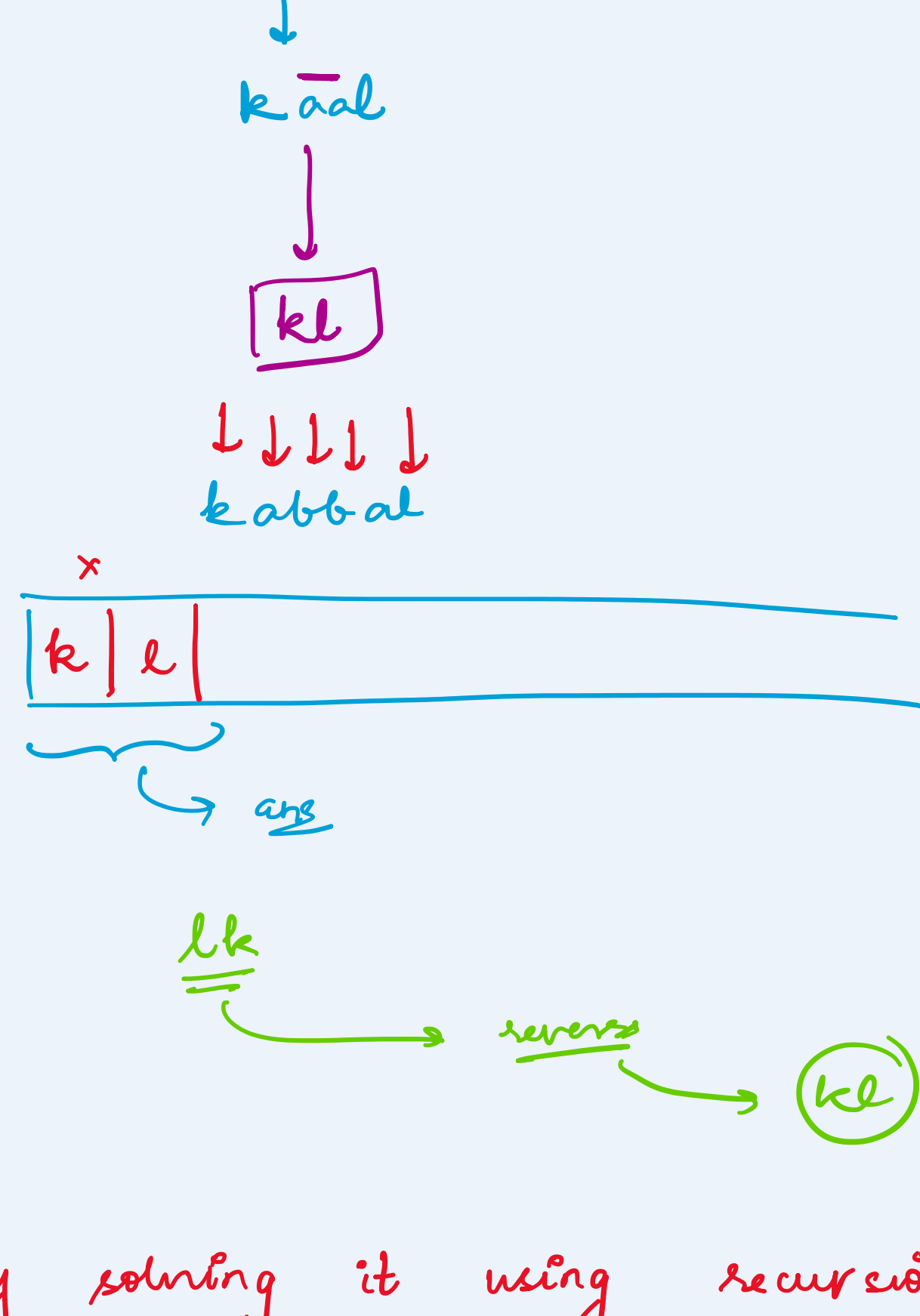
ans → kaal

Eg: "mkccddf" → mfd

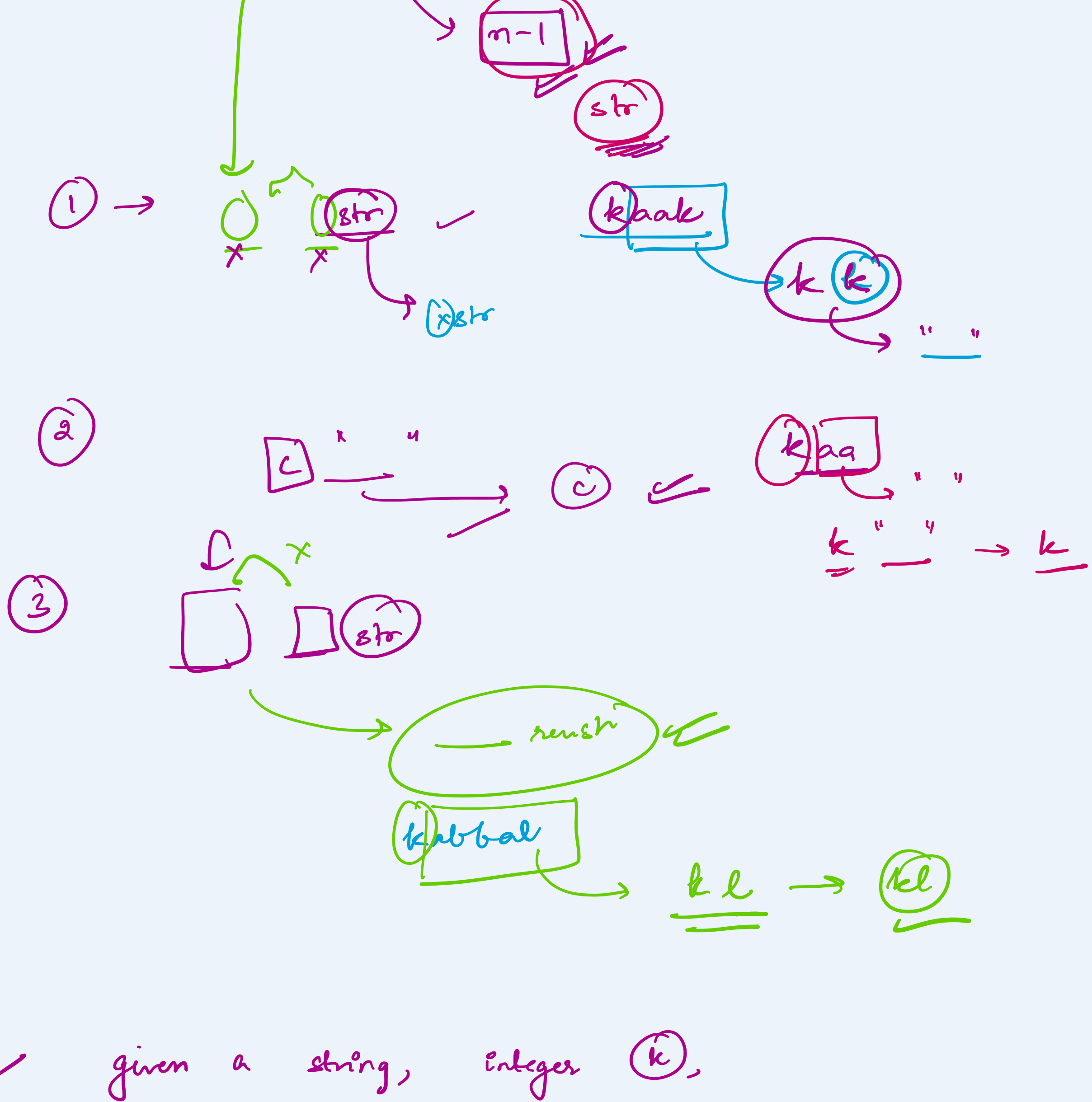
ans → mfd

Eg: "aaa" → aa

ans → a



Try solving it using recursion ??



Q Given a string, integer (k),

k duplicates removed
k adjacent & equal characters.

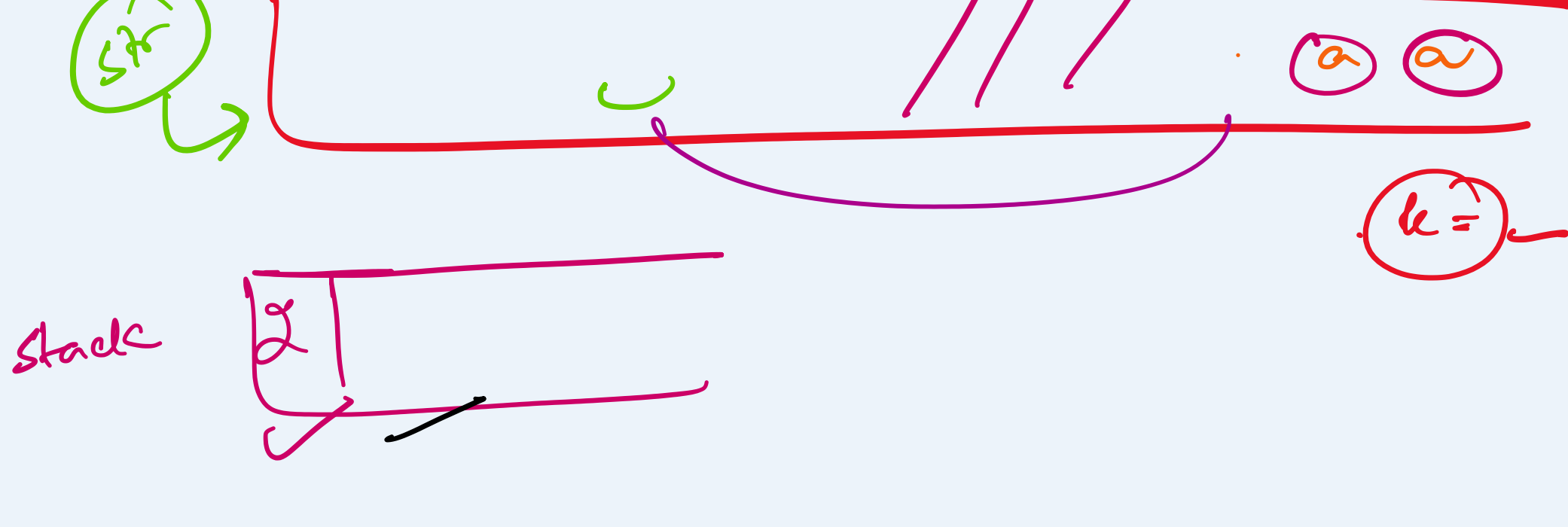
Eg: deee ddbb cc b d a a, k=3

ans → aa

ddbb b daa

ddd aa

aa



Q Given an array, find the next greater element for every element to the right

Eg: 4 5 2 25

5 25 25 -1

Eg: 10 7 4 2 9 → 11 10 3 2

11 9 9 9 11 -1 -1 -1

Eg: 5 4 3 2 1

-1 -1 -1 -1 -1

Eg: 5 4 3 2 1 10

10 10 10 10 10 -1

Eg: 11 4 3 2 10 12

12 10 10 10 12 -1

12 10 10 10 12 -1

12 10 10 10 12 -1

Q Sort a stack using recursion.

→ push/pop/top/isEmpty()

30 -5 18 14 -3

-5 -3 14 18 30

30 -5 18 14 -3

30 -5 18 14

30 -5 18

30 -5

30

-5 18 30

-5 18

-5 18 30

-5 18 30

-5 18 30

-5 18 30

-5 18 30

-5 18 30

-5 18 30

-5 18 30

-5 18 30

-5 18 30

-5 18 30

-5 18 30

-5 18 30

-5 18 30

-5 18 30

Sort Stack (s):

if (s == empty) return;

val = s.pop();

sortStack(s);

→ InsertSorted(s, val);

3

