

String to Integer

5472

last digit \rightarrow '2' \Rightarrow 2

2

input would be given so that valid int can be made

"1234"
String \rightarrow 1234
int

"5472" \rightarrow original problem

sub problem

"547"

"2"

converted to int \Rightarrow 547
recursively

i want to place two at one's place

"124576"

("12457" \rightarrow $\times 10$) + 6

converter(s) \rightarrow "5472"

thousands hundreds tens ones

5 4 7

(547) $\times 10 =$ 5470

5472

stoi("5472")

547 $\times 10 = 5470 + 2 =$ 5472

$\left(\text{stoi("547")} \times 10 \right) + \text{last_digit}(2)$

54 $\times 10 = 540 + 7 =$ 547

$$n (stoi("54") \times 10) + last_digit(7)$$

$$5 \times 10 = 50 + 4 = 54$$

$$(stoi("5") \times 10) + last_digit(4)$$

return

$$0 + 5 = 5$$

$$(stoi("") \times 10) + last_digit(5)$$

base case

0
7!

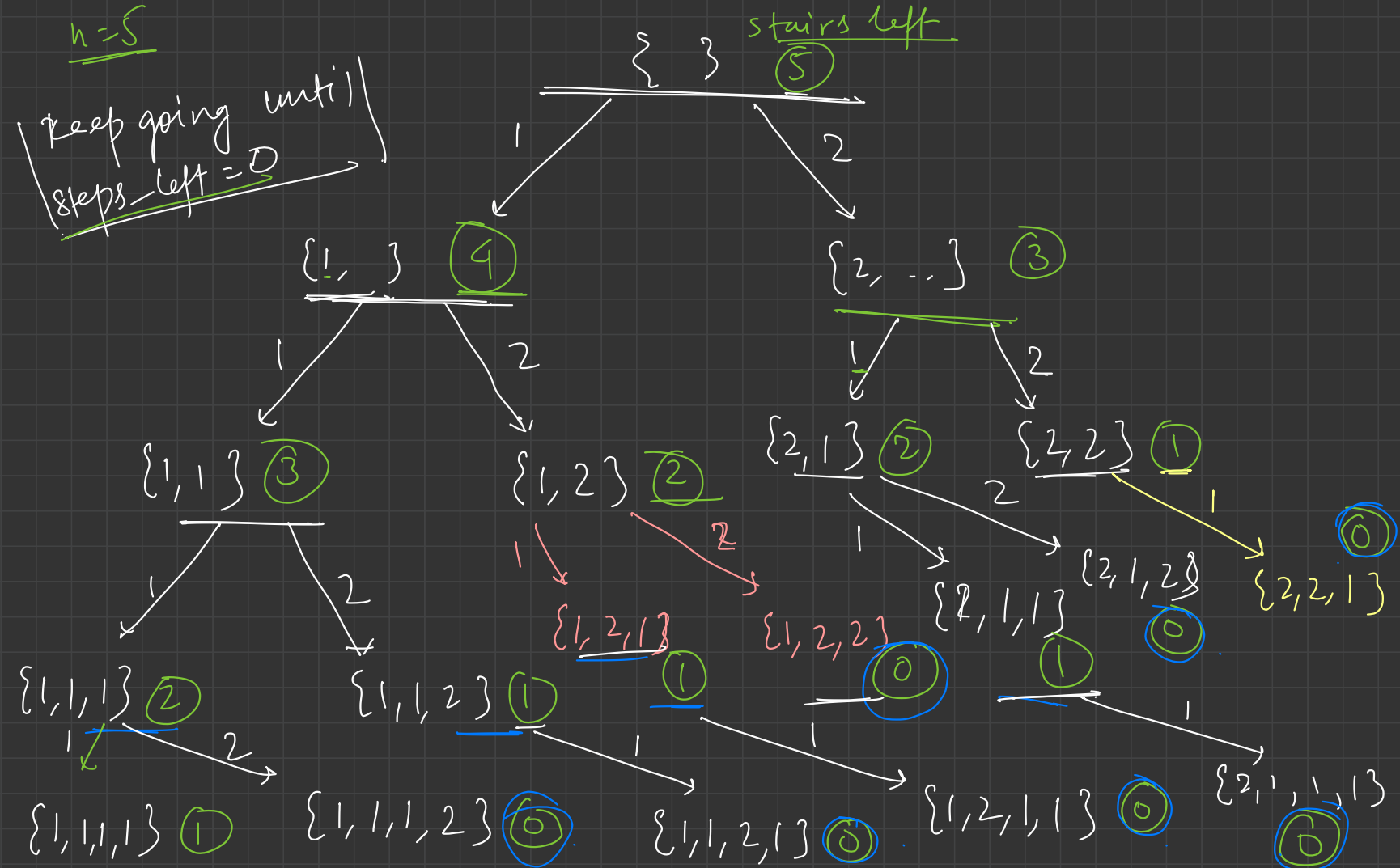
$$n = s.length()$$

$$n-1$$

$n=5$

stairs left
5

keep going until
steps left = 0



1
↓
{1, 1, 1, 1, 1} (0)

⑧ paths

{1, 1, 1, 1, 1}

{1, 1, 1, 2}

{1, 1, 2, 1}

{1, 2, 1, 1}

{1, 2, 2}

{2, 1, 1, 1}

{2, 1, 2}

{2, 2, 1}

