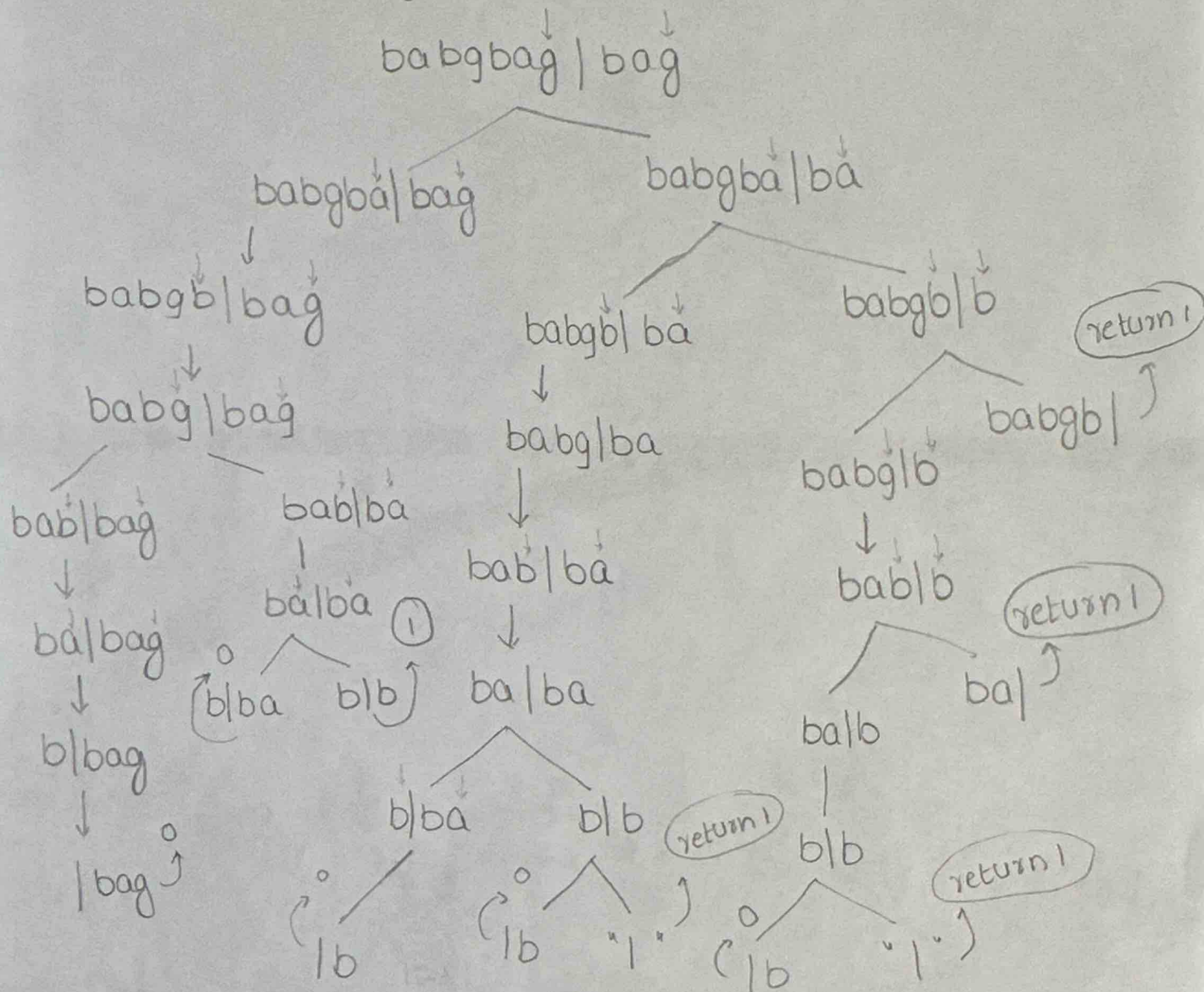


Recursion : String Matching

$$\text{Match} = (i-1, j-1) + (i-1, j)$$

No Match = $(1 - 1, j)$

Ex: $s = \text{babgbag}$ $t = \text{bag}$



Total = 5

$$\text{Match} = dp[i-1][j-1] + dp[i-1][j]$$

$$\text{No Match} = dp[i-1][j]$$

s = babg bag t = bag

dp

		0	^b 1	^a 2	^g 3
	0	1	0	0	0
b	1	1	1	0	0
a	2	1	1	1	0
b	3	1	2	1	0
g	4	1	2	1	1
b	5	1	3	1	1
a	6	1	3	4	1
g	7	1	3	4	5

→ return 5 = dp[m][n]