

Knapsack

- 0/1 Knapsack [DP]
- Fractional Knapsack [greedy]
- Unbounded Knapsack

	W	V
x	2	15
x	5	14
→	1	10
x	3	45
x	4	30

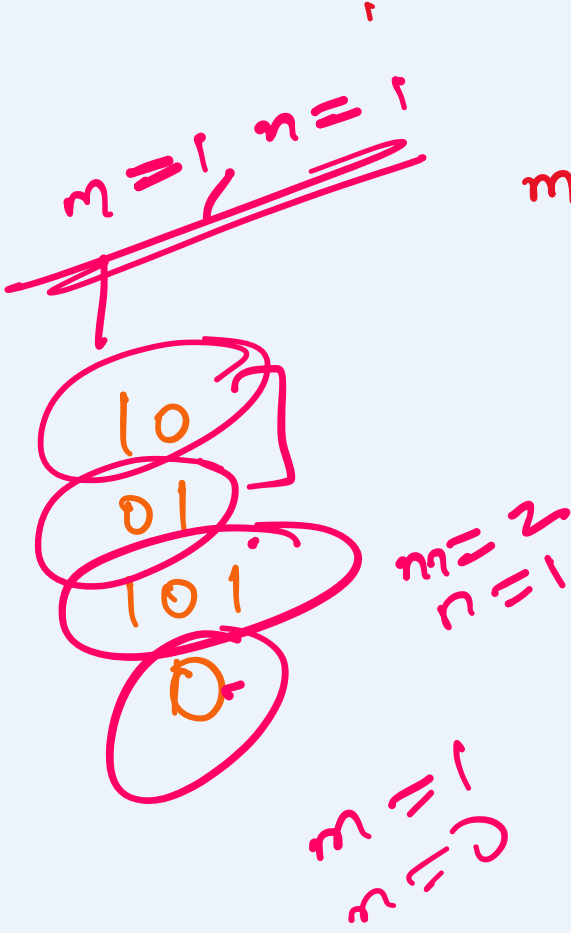
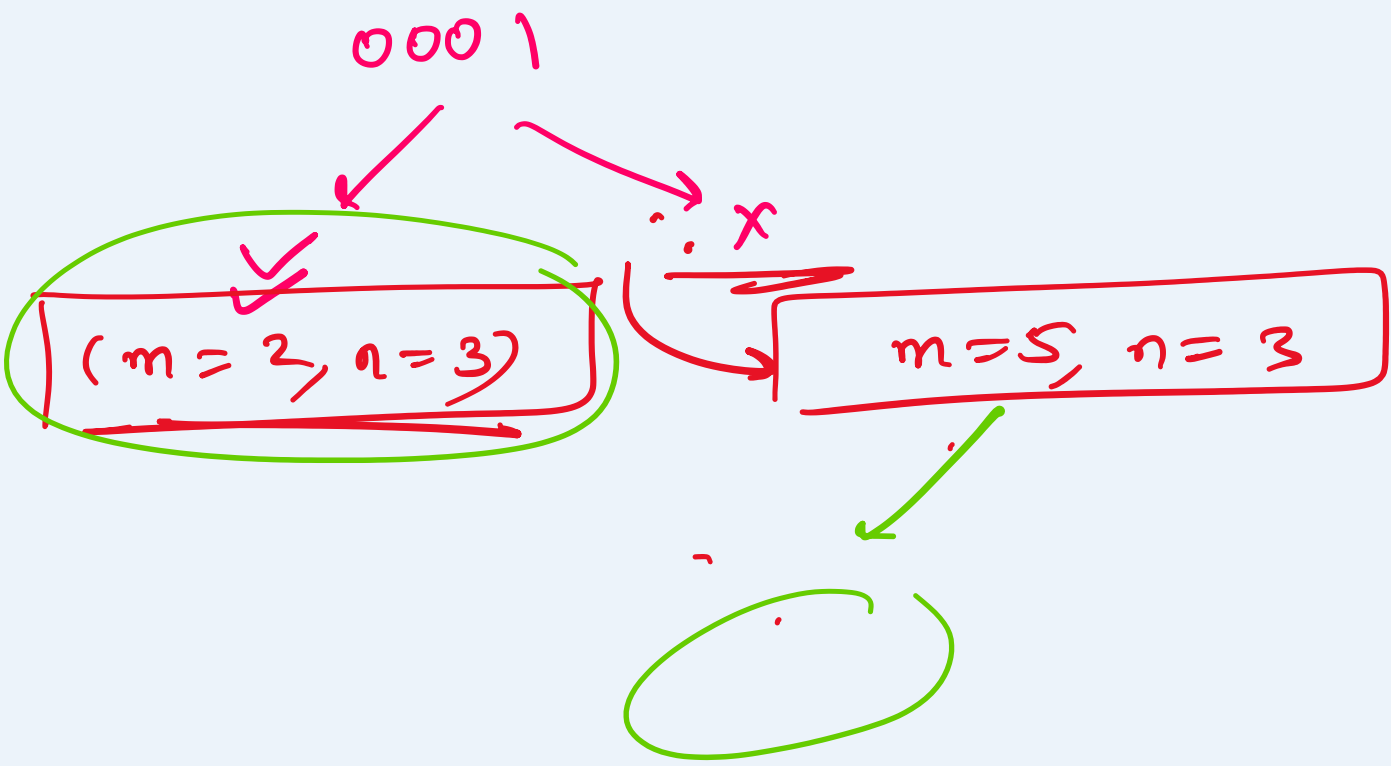
W = 7

0	10	20	45	55	65	90	100
0	1-10	1-10 1-10	3-45	3-45 1-10	1-10 1-10 3-45	3-45 3-45	3-45 3-45 1-10

Q Ones & Zeros

str = [10, 0001, 111001, 1, 0]
m = 5, n = 3

ans → 4



	0	1	2
0	0	0	0
1	1	1	1
2	2	2	2
3	3	2	2

$dp[i][j] = \max(1 + dp[i-1][j], dp[i][j-1])$

H/w Tallest Billboard
Pizza with 3N slices