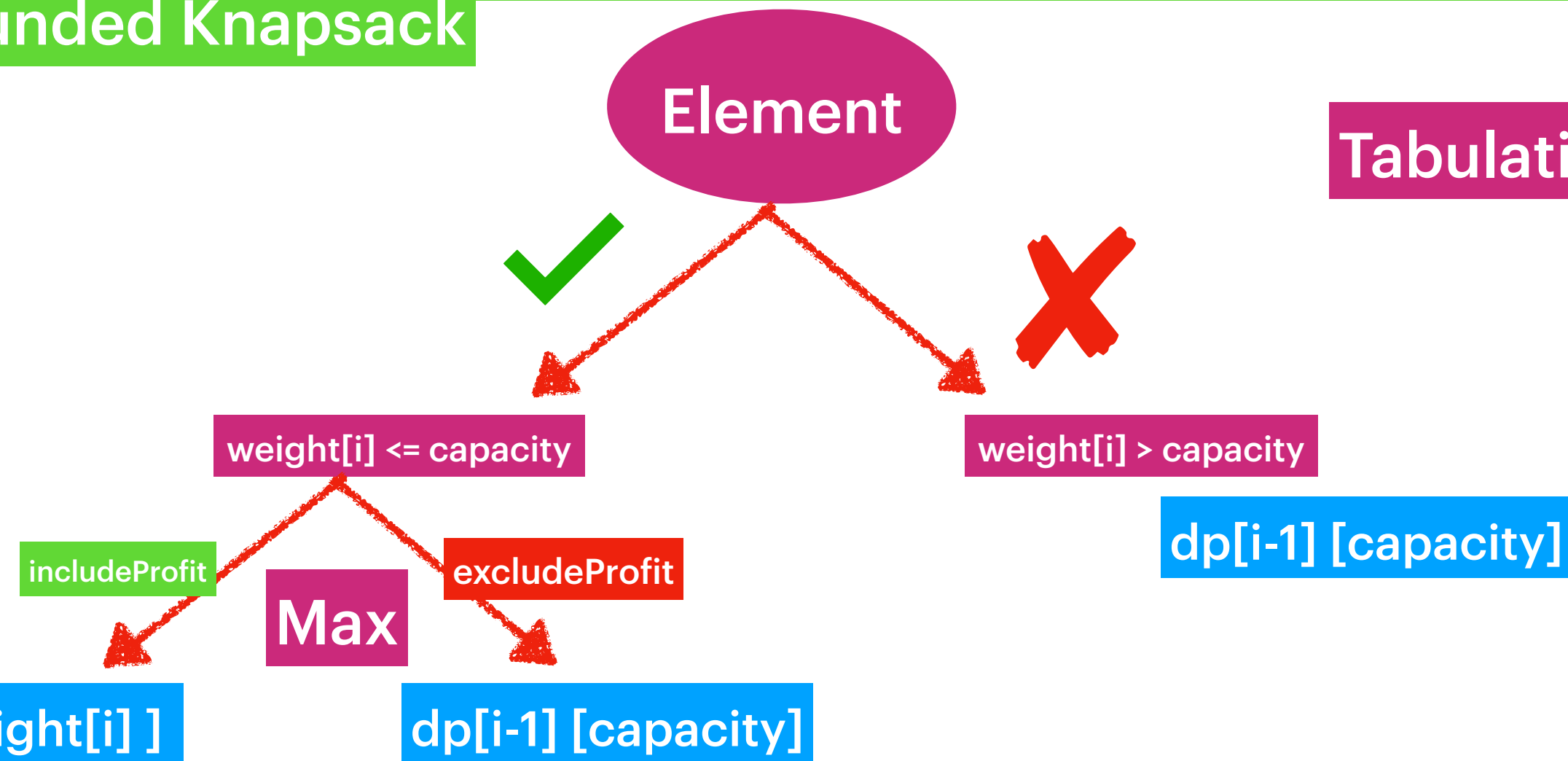


In Unbounded knapsack we can repeat the elements

Tabulation For UnBounded Knapsack

int[] weight = {1,2,3}
int[] profits = {5,2,4}
Capacity : 5

Expected Max Profit : 25 →
w{1,1,1,1,1} p{5,5,5,5,5}



Tabulation : sp[1] → sp[2] → sp[3] →

Time Complexity : $O(n*c)$
Space Complexity: $O(n*c)$

int[][] dp = new int[n][1+c]

		C:0	C:1	C:2	C:3	C:4	C:5
Index:0	W{1}, P{5}	0	5	10	15	20	25
Index:1	W{1,2}, P{5,2}	0	5	10	15	20	25
Index:2	W{1,2,3}, P{5,2,4}	0	5	10	15	20	25