

n	0	1	2	3	4	5	6	7
$DP[]$	1	1	2	3	5	8	13	21

The diagram illustrates the calculation of the 4th Fibonacci number (DP[3]) using the dynamic programming array. The array is shown as a table with two rows: the first row represents the index n (from 0 to 7), and the second row represents the value $DP[n]$. The values are: $DP[0]=1, DP[1]=1, DP[2]=2, DP[3]=3, DP[4]=5, DP[5]=8, DP[6]=13, DP[7]=21$. The cells for $DP[1]$ and $DP[2]$ are highlighted in yellow and enclosed in a blue border. A blue arrow points from the bottom of the $DP[2]$ cell to the $DP[3]$ cell, indicating that $DP[3]$ is calculated as the sum of $DP[1]$ and $DP[2]$.