

The Algorithm Design Canvas

Problem name: 2747 피보나치수



<div>Constraints</div> <div>$F_n = F_{n-1} + F_{n-2} \quad (n \leq 2)$ $0 \leq n \leq 45$</div>		<div>Code</div> <div><pre>int[] memo = new int[46]; // Top-Down int fibo(int n) { if (n <= 1) { return n; } if (memo[n] > 0) { return memo[n]; } memo[n] = fibo(n-1) + fibo(n-2); return memo[n]; } // Bottom-Up public int fibo(int n) { memo[0] = 0; memo[1] = 1; for (int i = 2; i <= n; i++) { memo[i] = memo[i-1] + memo[i-2]; } return memo[n]; }</pre></div>	
<div>Ideas</div> <div><div><div>* DP Top-Down \Rightarrow 재귀구현</div><div>공복된다.</div></div><div></div></div>			
<div>* DP Bottom-Up \Rightarrow memorization</div> <div>이전값들을 배열에 저장하고 근수의값을 찾는다</div>			
<div>Test Cases</div> <div>10 \rightarrow 55</div>			

