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| **import** java.util.HashMap;  **public** **class** Example {  **static** HashMap<Integer, Long> *memo* = **new** HashMap<Integer, Long>();  **private** **static** **long** fib(**int** n) {    // **TODO** Auto-generated method stub  **if**(n<=1)**return** n;    **if**(*memo*.containsKey(n))  **return** *memo*.get(n);    **long** result=*fib*(n-1)+*fib*(n-2);  *memo*.put(n, result);    **return** result;  }  **public** **static** **void** main(String[] args) {    **int** n=5;  n=n+1;  **long** res=*fib*(n);  System.***out***.println(res);      }  } | public class FibonacciTabulation {  public static long fib(int n) {  if (n <= 1) return n;  long[] dp = new long[n + 1]; // Array to store Fibonacci values  dp[0] = 0;  dp[1] = 1;  for (int i = 2; i <= n; i++) {  dp[i] = dp[i - 1] + dp[i - 2]; // Compute Fibonacci using previously stored values  }  return dp[n]; // Return the nth Fibonacci number  }  public static void main(String[] args) {  int n = 10; // Compute Fibonacci of 10  System.out.println("Fibonacci of " + n + " is: " + fib(n));  }  } |
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<https://leetcode.com/problems/climbing-stairs/description/>