

in this fibonacci sequence tree we can see that , [fib(0) , fib(1) , fib(2) , fib(3) , fib(4) ...] used too many times , and to find the value of another fibonacci number for exemple "fib(10)" we can't keep branching until we arrive to "fib(0) , fib(1)" . soo to minimise the work we can save the value of fib numbers used in the previous one and use them to find the new one .