



In the above recursion tree we can readily spot areas in the free where the recursive function being Computed is repeated. In essence what the above Picture tells us is the following:

this also means

1) fib(n-2) is computed traice 2) fib(n-3) is compided twelve.

2) There might be other fib(n) that might thet all be computed multiple times. successive

neusue calls they sparon are also computed again.

Hence its pretty evident from the above structure that we are doing a lot of repeated work volule