Implementation 1

Here time complexity is 2^n as each same number is calling the function twice.

```
                      fibonacci_1(4)
                     /              \
              fibonacci(3)         fibonacci(2)
               /      \             /          \
       fibonacci(2)  fibonacci(1)  fibonacci(1)  fibonacci(0)
        /      \
 fibonacci(1)  fibonacci(0)
```
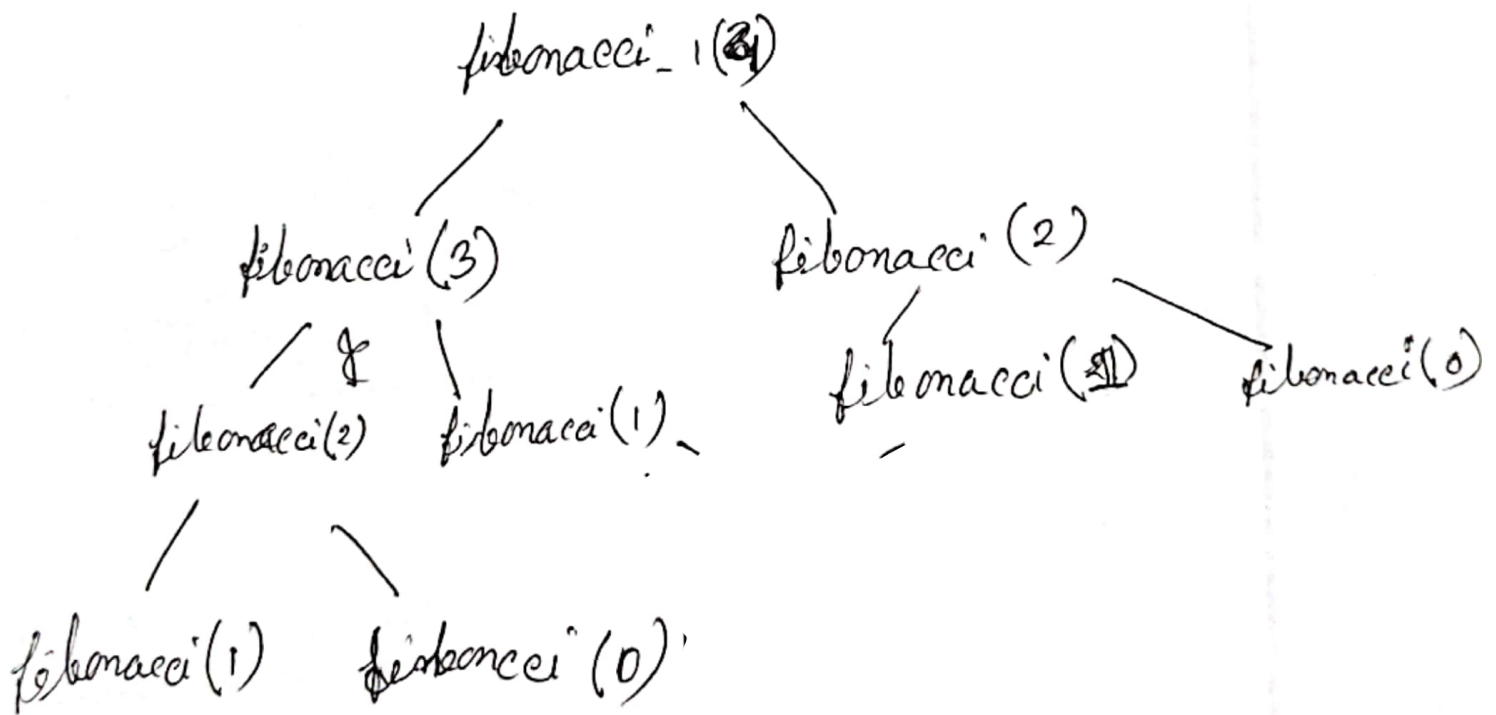
Implementation-2

Here time complexity is N as to we are only calculating the sum of 2 numbers N $_{fibonacci}$ times