

Mahathir

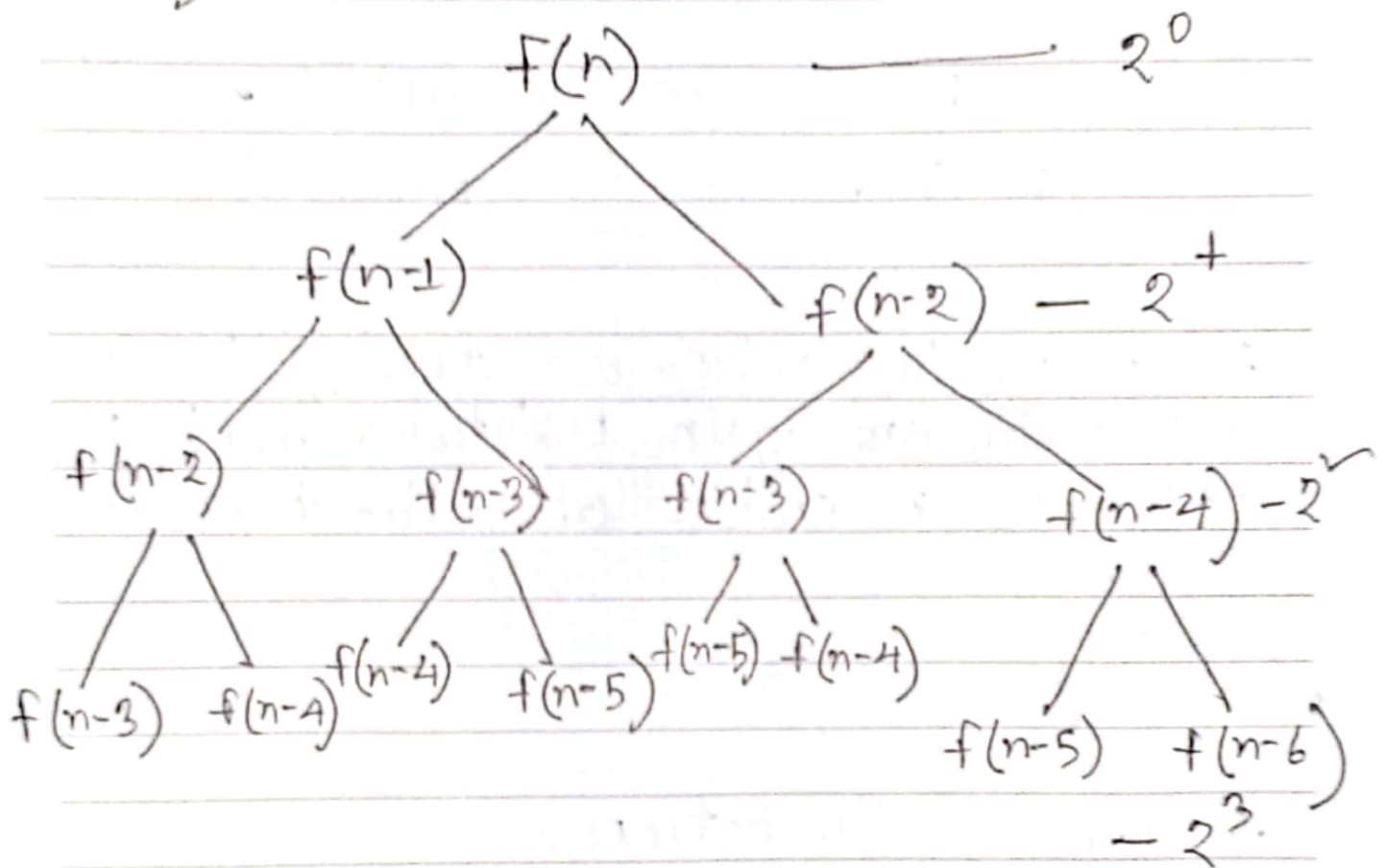
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2(a) # imp-1



So, as following, the recursion is going on the order of 2^n . the time complexity of $O(2^n)$

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imp-2

```
for i in range (2, n+1): —  $O(n)$   
    fib[i] = fib[i-1] + fib[i-2]
```

As, every time values are storing in a list and again and again returning that, it will take n order of time, in a loop.

$\Rightarrow O(n)$

\therefore Imp-2 is better.