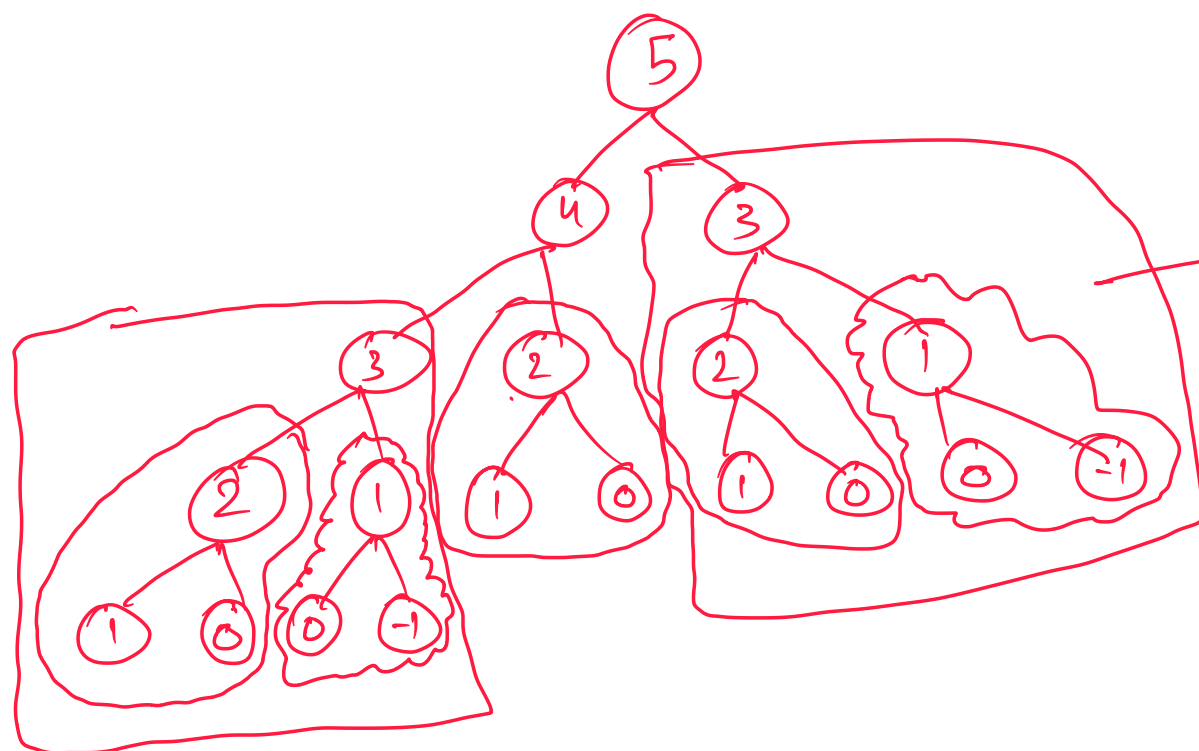
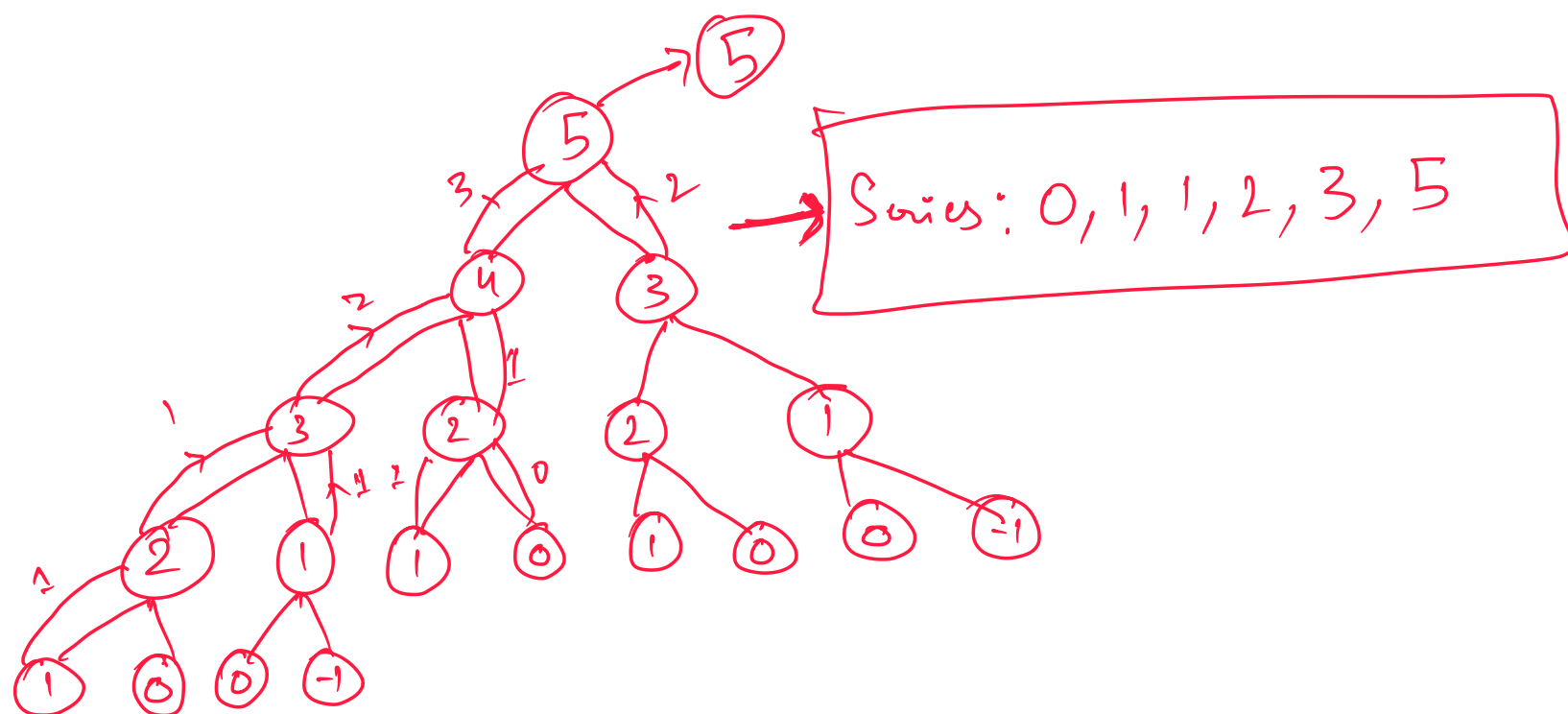


Fibonacci Series

Series:- 0 1 1 2 3 5 8 13 21

→ *) Sum of Previous (2) Numbers = Fibonacci Series.

$$\Rightarrow F_n = F_{(n-1)} + F_{(n-2)}$$



if we clearly observe, the Sub-Problems are Repeating & usefull.
Here, our goal is to eliminate the Repeating Sub-Problem.

Note:- By Analyzing the Tree :-)

- i) ① = is always giving us ①
- ii) ② = is always giving us ①
- iii) ③ = is always giving us ②

Solution:- By Storing these Values, we can avoid the Repeating Sub-Problems.
So, instead of Calling the Routine again & again, we can just return the stored value.