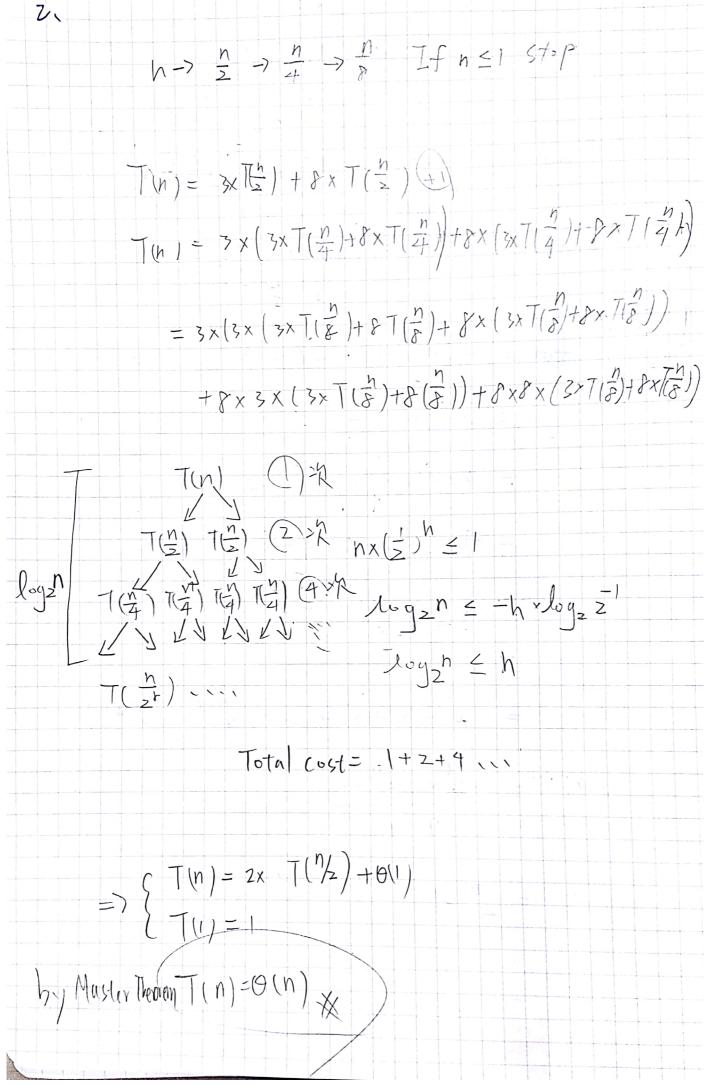
def noue Tower (n, A, B, C) from to with move Tower (n-1, A, C, B) $f(n-1) \leftarrow$ move Disk(A, C) move Tower (n-1, C, B, A) f(n-1)f(n) = f(n-1) +1 + f(n-1) = 2 f(n-1) + 1= #2[f(n-2)+1+f(n-2)]+1 $= 4 \left[f(n-3) + 1 + f(n-3) \right] + 1+2$ = 8 f(n-3) + 1+2+4 == 1+2+4+ ... 2 + 2 + 2 + ... 2 1 (2tt) $2\times(2^{n}-1)$



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```
def fibonacci [n):
3
             int a = $ fack & }
             if n=05
                a. push(0)
                return a
            if n=1:
               a. push (0)
               a. push (1)
               return a.
          e/4e =
              int temp = 0
              int 5e4=0
               seq = fibonacci (n-1)
               temp = 5eq. pop()
              Seq #. push (temp)
               Seq. push (temp)
              Seq. push (seq.pop()) + Fibonacci (n-2), pop)
               Veturn seq.
```