Int Fibo(int n)

{

if( n < = 1)

return n;

return Fibo(n – 1) + Fibo( n – 2);

}

♣

T(n) = C1(n< =)

T(n) = T(n - 1) + T(n - 2) + C2(n>1)

Mà T(n - 1) > T(n - 2)

→ T(n) = T(n - 1) + T(n -2) + C2

⇔ T(n) = 2\*T(n-1) + C2

⇔T(n) = 4 \* T(n-2) + C2 + C2

⇔T(n) = 8 \* T(n - 3) + C2 + 2 \* C2

→ T(n) = (2k) \* T(n - k) + k\*C2

Mà n – k = 1→ k = n -1

→ T(n) = ( 2(n – 1))\*T(1) + (n – 1) \* C2

* **T(n) ≈ O(2n)**