- Sequêncie de Fisonecci 4 3 venoões (1 T.P.C.)

- Cálculo de Poténcia

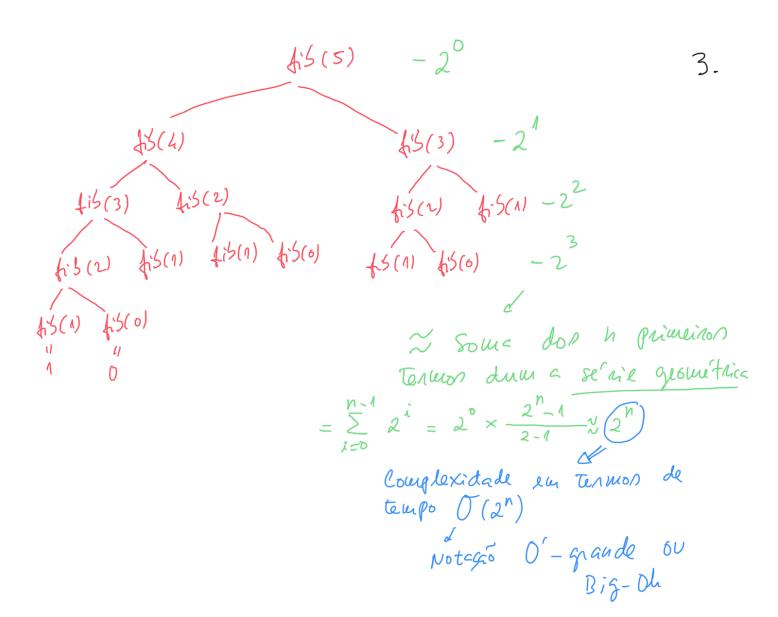
- Probleme "Maximum - susannag"

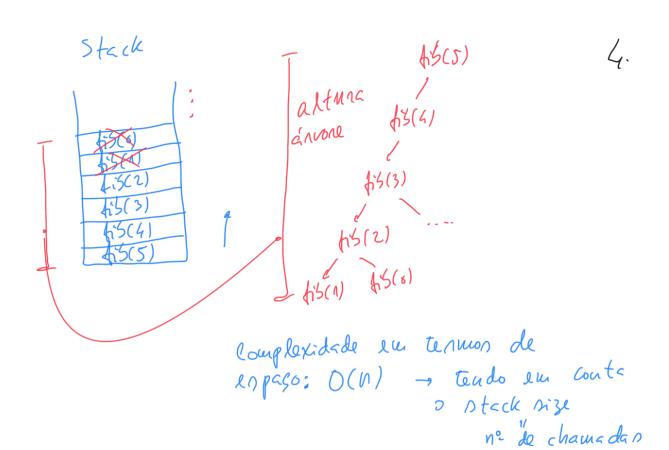
G 2 Versols (1 T.P.C.)

$$\begin{cases} F(0) = 0 \\ F(1) = 1 \\ F(n) = F(n-1) + F(n-2), & n > 1 \end{cases}$$

Método 1

$$fun \quad fis_{-1}(n: Dut): Dut = if (n <=1) n$$
else  $fis_{-1}(n-1) + fis_{-1}(n-2)$ 





recun sivas

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6 pagemases dinâmice: técnice de memonização
          soluças: mtilizaças de non annay para
                anuezeuar on n-1 celuledon até agons
    fun fib-2 (n: Int): Int 1
        val f = IntArrey (n+2) // +1 para guen o enpaso
                                  extre no caso do O.
        van i: Int
       { [0] = 0
                                        45 (2)
       1= (1] +
       i = 2
       While ( i <= n) 4
           4 [i] = 4 [i-1] + 4 [i-2]
        3 ++i
                         Complexidade le Teners de
       return fin]
                          tempo: O(n)
                         complexide eu tenuer le
  T.P.C.
                         enpaso: 0(n)
Mon appear a
 ultimos 2 termos = D compl-enpacial reduz para O(1)
memorização dos
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6.

pétodo 1

fun pow-1 (a: Dut, n: Jut) : Int = it (N==0) 1 // caro de parageu pow (2,0) else a \* pow-1(a, N-1)Complexidede tempond: 5(n) 2×1=2 enpacid: 6(n) h=2 2x2=4 pow (2,3) 2=2 2×4=8 n=3 nº de fraçolo expandida stack size

Metods 2  $a^{n} = \begin{cases} 1, & n = 0 \\ a^{n/2} * c^{n/2}, & Ne & n & per \\ a^{n/2} * a^{n/2} * a, & Ne & n & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2} * a, & ne & n & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2} * a, & ne & n & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & n & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & n & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & n & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^{n/2}, & ne & ruper \end{cases}$   $\begin{cases} 1, & n = 0 \\ a^{n/2} * a^$ 

