





Aluno: <u>Mateus Terra Tavares Ramos</u> Curso: <u>Engenharia de Computação</u> Data: <u>03/02/23</u>

Disciplina: Projeto e Análise de Algoritmos Prof: Philippe Leal____

CS Dig		
litalizado com	Projeto e análise de algoritmos	
CamScanner	1- Pinj = ri = x=1, VI m>0, VR x #1	
	Passorbase: Pino = P(0)	
	$P(0) = \frac{r_{0+1}}{r-1} = \frac{r_{1-1}}{r-1} = \frac{r_{1-1}}{r-1} = 1$	
	Passo indutired: Pik+1) = x-1	
	$P_{(K+1)} = \sum_{i=0}^{K+1} y_i = \sum_{i=0}^{K+1} y_i + y_{K+1} + \sum_{i=0}^{K+1} y_i = \frac{y_{K+1}}{y-1} + \frac{y_{K+1}}{y-1}$)
	$= \frac{1}{2} $	Y . Y
	3 .	
	Powed loan: Pino) = Pin)	
	m=1, P(1) = 2 ^{2.2} 1 = 4-1 = 2 , que i direirel por	√
	Parson imalitaries: P(M+1) i diminul poro	
•	$2^{2(k+1)}-1=2^{2k+2}-1=2^{2k}\cdot 2^2-1=2^{2k}\cdot (3-1)+1$	
	= 222 3+(221-1) que é diversionel por 3 20	
		[Filibra]

$3+P(n): 2^{0}+2^{1}+2^{2}++2^{m}=2^{m+1}-1$
Passa lesses ?(no) = ?(v)
$P(m_0) = 2^0 = 1$, $2^1 - 1 = 1 = P(0)$
Passo indutro: P(H+1) = 2H+2-1
$2^{0} + 2^{1} + 2^{3} + 2^{6} + \dots + 2^{n} + 2^{n+1} = (2^{n+1} - 1) + 2^{n+1}$ $4 = 2 \cdot 2^{n+1} - 1 = 2^{n+2} - 1$
$4 - P_{(n)} : \sum_{i=0}^{n} i = \frac{m(n+2)}{2}$
Parsa lease: Ping = Pio
$m_0 = 0, P_{(0)} = \sum_{i=0}^{n} i = 0$

Pana indulina: P(K+1) = K+1(K+3)

= RIN+1) + (K+1) 0+1+2+3+...+12+12+1 KIKH) + 1K+1) KIK+1) + 2(K+4)) 177+17718+2

= K2, 3K+2 tilibra

-	7 s>
	Prova lease:
v-	$n=1$, $P(1) = 2.1^2 = 2$
5	nearen por indução: PCIN - PCIN +11
1	2+4+6+10++(4K-2)+[4K+1)-2]=2(K+1)
	2K2 + [4K + 2] = 2(K+1)2
	$2K^2 + 4K + 2 = 2(K+1)^2$
14	2.(12°+112+1)= 2(1+1)2
7/7	$2. (1 + 1)^{2} = 2(1 + 1)^{2}$
	1. (K+1) = Zeleri
	2 7 4 4
-	8 - Prova lease:
	$y = 0$, $y(0) = \frac{0.(2.0 - 1).(2.0 + 1)}{3} = 0$
_	
)	2 1 2 K(2K-1)(2K+1)
	$(1^{2}+3^{2}++(2k-1)^{2}+[2(k+1)-1]^{2}=\frac{k(2k-1)(2k+1)}{3}$
	K(2K-1).(2K+1) + (2K) =
	3
	412 + 212-212-K+1212+12K+3= (14+1)(24+1). (24+3)
4	9 43 + 12 K2 + 1912+3 = 4K3 + 12K3 + 11K +3
_	1 1 + 12 x + 171(+3 - 412 + 12) x + 17 x + 3
- T	
9	

