$$T(n) = 7T(n-1) - 15T(n-2) + 9T(n-3) + 4x3^n + g$$

$$Y^3 - 7x^2 + 15x - 9 = 0$$

$$Y = 3,3,1$$

$$T(n) = T^{b}(n) + T^{c}(n)$$

$$T(n)^{3} = (A + B_{0}) 3^{3} + (C1)^{3}$$

$$\frac{Dn^{2}3^{n} + nE = 7(D(n-1)^{2}3^{n-2} + (n-1)E)}{-1S(D(n-2)^{2}3^{n-2} + (n-2)E)^{1} + (n-2)E)^{1} + (n-3)E) + 43^{n-3} + (n-3)E) + 43^{n-3} + 8$$

$$(x-y)^{2} = \sum_{j=0}^{\infty} C(n,j)x^{-j}y^{j}$$

$$\int_{0}^{\infty} C(n,j)x^{-j}y^{j}$$

$$Dn^{2}3^{n} + nE = 7(D(n^{2}-2n+1)3^{n} + (n-1)E)$$

$$= 1S(D(n^{2}+9n+4)3^{n} + (n-2)E) + (n-3)E) + (n-3)E$$

$$0 = -\frac{140}{30} + \frac{600}{90} - \frac{54}{27} = 0$$

$$3^{0} = 7D - 60D + 81D + 4$$

$$0 = -\frac{4}{3}D + 4 - \frac{4}{3}D = -4$$

$$0 = -\frac{4}{3}D + 4 - \frac{4}{3}D = -4$$

$$0 = -18E + 9E = E = EV$$

$$0 = -76 + 8$$

$$0 = -46 + 8$$

$$0 = -46 + 8$$

$$0 = -46 + 8$$

$$0 = -46 + 8$$

$$0 = -46 + 8$$

$$T(n) = (A_{1} + B) 3^{n} + C + 3 n^{2} 3^{n} + 2 n$$
 $n=0$   $4 = B + C$ 
 $n=1$   $12 = (A + B) 3 + C + 9 + 2^{n}$ 
 $n=2$   $32 = (A + B) 9 + C + 188 + C$ 
 $1 = 3A + 3B + C$ 
 $-80 = 18A + 9B + C$ 

T(0) = 4 T(1) = 16 T(2) = 32

[Fraction(-32, 3), Fraction(27, 2), Fraction(-19, 2)]

$$T(n) = (-12n + \frac{33}{2})3^{2} = \frac{25}{2} + \frac{9}{4}n^{2}3^{3} + 2n$$

$$T(n) = 2T(n-1) = T(n-2) + 2n^2 + 9$$
1) 6.C
$$1^2 - 2Y + 1 = 0$$

$$-(c(v-5)^{4}+b(v-5)^{3}+E(v-5)^{2})$$

$$-(c(v-5)^{4}+b(v-5)^{3}+E(v-5)^{2})$$

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$$-(c(v-5)^{4}+b(v-5)^{3}+E(v-5)^{2})$$

$$-(c(v-5)^{4}+b(v-5)^{3}+E(v-5)^{2})$$

$$T(n) = 4T(n_{s}) - 4T(n_{s}) + n + s$$

$$r^{2} - 4r + y$$

$$r^{2} - 4r + y$$

$$T(2) = 4$$

$$T(2^{k}) = 4T(\frac{2^{k}}{2^{2}}) - 4T(\frac{2^{k}}{2^{2}}) + 2^{k} + s$$

$$T(2) = 6$$

$$+(2^{k}) = 4T(2^{k-2}) - 4T(2^{k-2}) + 2^{k} + s$$

$$T(2^{k}) = T_{k}$$

$$T(2^{k}) = T_{k}$$

$$T_{K} = T_{K}^{(n)} + T_{K}^{(n)}$$

$$T_{K} = (A + BK) 2^{K}$$

$$T_{K}^{(n)} = C + N^{2}D2^{K}$$

$$C + K^{2}D2^{K} = 4(C + (K-1)^{2}D2^{K-2}) + 2^{K} + 5$$

$$C + K^{2}D2^{K} = 4(C + (K^{2}-2K+1)D2^{K})$$

$$C + K^{2}D2^{K} = 4(C + (K^{2}-2K+1)D2^{K})$$

$$K^{2}2K = D = 2D - D = DV$$

$$K^{2}2K = D = 2D - D = DV$$

$$K^{2}2K = D = 2D - 4D + 1 = 2D = 1$$

$$C = 4G - 4C + S = C = S$$

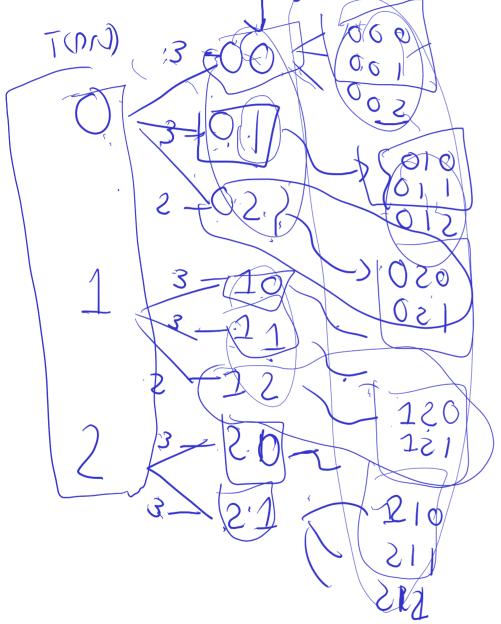
TK= (A+BK)2K+5+ 1 K22K

$$T(2)=4$$
  $4=A+S$   $A=-1$   
 $T(2)=6$   $6=(-1+B) 2+S+\frac{1}{2}$   
 $6=-2+3B+S+1$   
 $B=1$ 

$$T(n) = (-1 + \log_2(n)) + S + \frac{1}{2}(\log_2(n)))$$

Indique la RR que describa las cadenas en base3 que no tenga

22 consecutivos y resuelvala.



$$7(n) = 27(n-1) + 37(n-2)$$

$$T(1)=2$$
  
 $T(2)=8$   
 $T(3)=2\times 8+3\times 2=72$   
 $3+3+2+8+3+2+3+3=22$