$$q_0 + q_1 + q_2 + q_3 + - -$$

$$\frac{\text{form}^2}{q_0 + \frac{1}{q_2}} = \frac{q_0 + \frac{1}{q_0 + 1}}{q_0 + \frac{1}{q_0}}$$

$$\frac{q_2}{q_0+1}$$

Ce2 + -> 9,+ Q193 +1 10 9, + as 9293+1 7 - Qo + 5010 9, (0,20+1) + 90 Q293+1 == (1- 110) 00 -C (14,0-5) Q0+ - Q2(Q10+1)+ Q1 -1- 90(9293+1)+ az (a, az +1) + 91 ao acaz x ao Al =1

93 (9,02+1) + 91 9293+1 as (a142+1)+ a1 a. (a3 (a,a+1)+ a1) + ace3+1 93 (9,92+1) +9, 200 中(100 F 107 万 -> 93 GO (9192+1) + 9293+ (GOQ1#1) 95 (aiac +1) + a1 as (as (asa, +1)) + (asa, +1) 93 (9,9e+1) +Q,

of all all all

Removator Seguence.

90 i 9091+1: 92 (2001+1)+00: 93 (92 (90 au +11) + (00 au+1) $h_n = \alpha_n h_{n-1} + h_{n-2}$ n=1 - 0,1,2,3.-han = 1 han = 0 - Kan = 2 Similarly of Km = an Km-1 + Km-2 Test kity $\left[K_0=1\right]$? $K_1=q_1$ $K_{-1} = 0$; $K_{-2} = 1$ Ko= 90 K-1 + K-2 = 00(0) + 1 = 1K12 a, to + K-1 = a, (1) + 0 a2 K, + Ko = a2a, +1

restarment hn = anhn-1 + hn-2 Base Case $h_{-1} = 1$ $h_{-2} = 0$ Denominator | Kn = an Kn+ + Kn-2 | Base Case 1+ 52-1 =) 1+ (J2-1)(J2+1) (J2+1) $1+\frac{(2-1)}{1+\sqrt{2}}$ $1. \sqrt{52} = 1. + \frac{1}{1+\sqrt{2}}$

T1, 2, 2, 2, ao=1i an=p . 52