· P(x) tem grow 990

· P(K) = Fix pora K = 992, ..., 1982.

Prove que P(1983)= F1983 - 1.

$$\Delta P(K) = F_{K+4} - F_{K}$$
, poro K=992,..., 1981
$$= F_{K-1}$$

$$\Delta^2 P(K) = F_K - F_{K-1}$$
, para K=992, ..., 1980
= F_{K-2}

$$\Delta^{990}$$
 $P(x) = F_{x-990}$, pora $K = 992$,..., 952

Mas
$$\Delta^{aso}P(x)$$
 tem grav so =0 $\Delta P(x) = F_2 = 1$

$$1 = \Delta^{990} P(993) = \Delta^{989} (994) - \Delta^{989} (993)$$
$$= \Delta^{988} (995) - \Delta^{989} (994) - \Delta^{989} (993)$$

$$= \Delta^{\circ} \rho(1983) - \Delta^{\circ} \rho(1982) - \Delta^{\prime}(1981) - \dots - \Delta^{\prime}(993)$$

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$$P(1983) - 1 = F_{1982} + F_{1980} + F_{1978} + \cdots + F_{4}$$

$$= F_{1982} + \cdots + F_{6} + F_{4} + F_{3} - F_{3}$$

$$= F_{1982} + \cdots + F_{8} + F_{6} + F_{5} - F_{3}$$

$$\vdots$$

$$= F_{1983} - 2$$

$$= F_{1983} - 2$$