

C1: 7 f M-M care un poste fi

calculate de un algoritm

definitie fermala?

O primo

FUNCTIÍ PRIMITIV RECURSIVE

functii "Le h-z=" operati

- fot constante Co (x1, - xn) =0

Comparere

- functia successor

f: M" -> M

g1, - gu . M" -> M

)(x) = xt1

fo(g1, - gk): M^ -> 171

- funtiile proiesti

 $\left\{ f \circ (g_{1y} - g_{zz}) \right\} (x_{1,-} x_{N}) = f \left(g_{x_{1}} (x_{1,-} - x_{N}) \right) - \dots \\
 g_{zz} (x_{1,-} - x_{N}) \right)$

M71, 16ien

Recursie primitive

Tin (X1, -- Xn) = XL

$$g, h \rightarrow f$$

$$f(x_{1}, -x_{0}, 0) = h(x_{1}, -x_{0})$$

$$f(x_{1}, -x_{0}, y_{1}) = g(x_{1}, -x_{0}, y_{1}) f(x_{1}, -x_{0}, y_{0})$$

$$h: h^{2} \rightarrow h$$

$$f(x_{1}, -x_{0}, y_{1}) = g(x_{1}, -x_{0}, y_{0})$$

$$h: h^{2} \rightarrow h$$

$$f(x_{1}, -x_{0}, y_{0}) = h(x_{1}, -x_{0})$$

$$f(x_{1}, -x_{0}, y_{0}) = h(x_{1}, -x_{0}, y_{0})$$

$$f(x_{1}, -x_{0}$$

$$A(m+1,n+1) = A(m,A(m+1,n))$$

$$2fixe$$

DE FAPT Fet Ackermann nu este princter recursive: reste mui
rapid deat orke functe printer recursiva

[LIMBAJUL LOOP | MEYER RITCHIE)

REGISTRI XI,... In : no matarale Xi =0 Program $\chi_i = \chi_i + 1$ Pragram; Pragram = Loop (X)
Program

END Program X=X-1 Propons executat de ou F calculabil= de programe LOOP f primitiv recursive NTUITIE f printer reaurgiv= C= caloulat= of

programe for= WHILE Exp f(x,y) = x+y primiter recursive

 $f(x, \alpha) = x = \pi/(x)$ primited records

x+y+1 = g(x,y,x+y) g = ?

g(x,y, 2) = 2+1

g(x,y,2) = 30 T3 (x,y,2) printer reason

