$$D_{x} = D_{y_{1}} = D_{y_{2}} = D_{z} = Z$$

$$\varphi(x)$$

$$(y_{1}, y_{2}, y_{3}) \leftarrow (0, 0, 1)$$

$$p(x)$$

$$y(x)$$

$$y(x)$$

$$y(x)$$

$$y(x)$$

$$y(x)$$

$$y(x)$$

$$y(x)$$

$$y(x)$$

 $y_2 \leftarrow y_2 + y_3$

 $y_1 \leftarrow y_1 + 1$

 $\psi(\gamma, z) = z^3 \leq \gamma < (z+1)^3$

по индукции

 $SA: \mathcal{Y}^{(\chi)} \rightarrow P(\chi, 0, 1, 1)$

ATH: $\varphi(x) \wedge P(x, \bar{y}) \wedge (y_2 > x) \rightarrow \psi(x, P(x, \bar{y}))$

AFA: 9(x) A P(x, y) / (y2 x) -> P(x, y,+1, y2+(y,+6(y+1)) , yst 6(y (+ I))

TUYCONDP(X, y)=>3 y3 142=(4,+1)3 143=(4,+1)3-43 =>A: X20 -> X20 A1=1 A1-1

ATH 720 AP(x, g) 1 (y, >x) > 4: y3 < x < (y,+1)3

AFA 730 AP(7, \$) A (y267)

> > > (y,+1) / y2+ (y3+ 6(y,+1)) = (y,+1)) 1 y3+6[y,+1) = (y,+1+1)3- (y,+1)3

y2+y3+by,+6=(y,+2)3 => y2=(y,+1)3 yst 6ty (1) = (y+2) - (y+1)}

gokazaza