```
17~18
 GR = NXNXNX···N+>N, and KEN, K32
Yk(n, ,1,2, n3, n4---nk)=max [n,, n--ne] 足原始逆归的.
Q_{R}(n_{1}, n_{2}, \dots, n_{k}) = \begin{cases} max_{2} \{n_{1}, n_{2}\} \\ max_{2} \{max_{k-1} \{n_{1}, n_{2} - n_{k-1}\}, n_{k}\}, k \geq 3 \end{cases}
maxz [n,,nz] = n, (n, > nz) + nz·(1~(n, ≥ nz)) and n, ≥n、足原焓逆り 函数, 并且原函数被逆り
定义,则论毕.
11212
\varphi(x,y) = \int (x+1)^y, x, y are composite number 0, otherwise
9(x,y)= (1-prime(x))(1-prime(y))exp(x+1,y)
prime(x) = (1 - equals(x, 2)) \prod_{i=1}^{x-1} (rem(x, i) \neq 0) + equals(x, 2)
exp(x,y) = (1 \sim equals(y,0)) (multi(exp(x,y-1),x)) + equals(y,0)
校原函数是原始递归的,
08209
g(x,y)是原始递归函数
e(x,y) = \{1, \text{ if } \exists t \text{ wetzy}, (g(x,t)=0)\}
 e(x,y)= = (9(x,t)=0)
 Q(x,y)原始递归, is zero 判定世长, 析取世是, 校证字
06207
f(x) = \begin{cases} x+1, & x \in dd \\ 4x, & x \in even \end{cases}
 fix) = (rem(x,z))(x+1)+(1~rem(x,z))4x
```

```
04205
Pix,y)原始通归,证明byeuPix,y)
Tyen Pixiy) => Ty=0 Pixiy) =0
类比: \exists t_{(0 \in t < y)} (g(x,y) \neq 0) \iff \xi_{t = 0}^{y-1} (g(x,y) \neq 0)
fac(n) = n:
          11-equalstn,0)) factn-1)·n + equalstn,0)
gcd (m,n) = 8 n, it m% n = 0

gcd (n, m% n), if m% n = 0
gcd= (1~rem(m,n)) n + rem(m,n) gcd(n,m%n)
prime (n) = (1 - equals(n, 2)) \prod_{i=1}^{n-1} (rem(n, i) \neq 0) + equals(n, 2)
总结·类似于mua偏程,需要细与。
  (1x) = 9 1x-y1, (x=y) mod 3
          Xty, otherwise
 mod 3 (x,y) = ((x-y) >0)(1~ rem(x-y, 3)) + (1x-y) <0) (1~ rem(y-x, 3))
 φ(x) = mod 3 (x,y) (((x-y)≥0)(x-y)+((x-y)<0)(y-x))+(1~mod 3 (x,y)(x+y))
```