```
Q=>lu
(Q_{\Lambda}y=1_{\Lambda}b=x_{\Lambda}i=n) \Longrightarrow (Q_{\Lambda}y\cdot b^{i}=x^{n})
 We want to prove: in case LHS founda is me, then RHS
 formula is also true.
                                Q' \wedge y - b^i = x^n
1 \cdot x = x^n
Hus is the
2. INV 1717 > R
  (Q \wedge y \cdot b^i = x^h) \wedge i \leq 0 \Longrightarrow (Q \wedge y = x^h)
  As i \le 0 and i : \mathbb{N}, then i = 0.
                       y \cdot b^{\circ} = x^{h}
y \cdot 1 = x^{h}
     y \cdot b^i = \lambda^h?
3. hu => TVTT
  lw⇒, i>0 v i≤0
            TRUE, as i: IN
4. lw/1=> t>0
  (Q \wedge y \cdot b^i = x^h \wedge i > 0) \Rightarrow i > 0
  In case the LHS formula is the, then is a holds.
5. lw IT 1 t= to => up (so, hunt (to) for any to ER
  Now so is a selection - IT statement - with two branches.
  It is enough to prove 4 other wonditions:
  x) /w 1711 t=to => (21i v 2ti) 1 (2ti v 21i) ~
                                 TRUE, as i: N, every natural number
                                 is either odd or even
 B) In ITI t= to => 21i v 2ti
  D) Im ATAt = to A 2/i ⇒ up(i,b:=i/2,b², luvat < to)
     (Q \wedge y \cdot b^i = x^h \wedge i > 0 \wedge i = to \wedge 2 / i) \Longrightarrow (low \wedge t < to)^{i < i/2, b < b^2} \wedge 2 / i
                                  (Q, y. (b2) 1/2 = x x 2/to x 2/i) =
          wo
                                  (Q 1 y-bi=xn 1 i/2 < to 1 2/i)
 J) hur Trto=t12ti => up (i,y:=i-1,y.b, hur tc6)
```