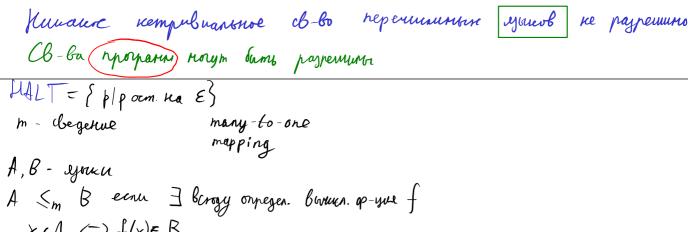
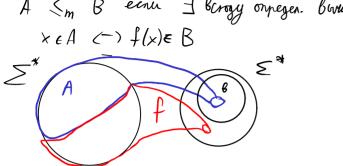
```
\geq^* \sim \mathbb{N}
  < < >3
  A CN
pagremuyour
repervenimin
   ro nypazpeminina
                               - Kynunaprure persennus
  4: 9: 9? ---- 9n ---
) ∀i.∀j. q;(j) ke zabucaem
                                                           he you cnowda januar
2) \forall payreumino A = \{j | q:(j)=1\} gra new, i
                                                             arrogumenos, manus, umo
                                                              brinonneun bie 3 cb-ba
3) (i,j) - q i(j) - Buruenuna pynnyus
    A = \{j \mid q_j(j) \neq j \}
                                                             RE-nonypagnemmene
ejemen
 P \qquad \angle(p) = \{x \mid p(x) = 1\}
 A - reperuencement you PA - nonypasperunners A
   L(p_A) = A L: Prog \longrightarrow 2^{s^*}
                         L; Proy → RE
X-cloriembo, eynus X < 2 Extrapolation X = RE
 Mpunepu cl. linite CRE
                                                                          · Sp - RE
                • Упин, стержачие Е
                                                                           De & Dr
     Prop XECRE AEXE => E & A s lang

S = - string prop lang prop
                                                                              \varepsilon \neq \phi_{l}
                                                                           EL= 10,3
                                                                          ELCRE
     lang = sex (string)
                                                                         P: L(p)= Ø1
     prop = set (lang)
                                                                             return O;
                                                                       L = { = { E}
                                                                        PE = { L }
                                                                           PECRE
```

```
X-cborsembr reperuen. y med
    your chosemba L(x) = {p|L(p) e X}
                                             ren-to sporparin
              Liptop - lang
   X: L(X) - pagreuum
         q(p) L(p) \in \times \rightarrow q(p) = 1
                  \angle (p) \notin X \rightarrow q(p) = 0
 · L(Finite)= {plL(p) & Finite}
                                                             L(Fixite) - buguno re paypemen
                                                                             u no rongrasperum
    {p/ |{x|p(x)=s}}<
                                                                  L(×€) - rongraspeurun
    Q(p)=1 \iff p \ \text{Bog} \ p \ 1 ha unernom nu fe crob
                                                                              pasp. - he znaem
 L(x_{\epsilon}) = \{p \mid L(p) \in X_{\epsilon}\} = \{p \mid \epsilon \in L(p)\} = \{p \mid p(\epsilon) = 1\}
     q(\phi) = 1 <= p(\epsilon) = 1
      2(p) = 0 \iff p(\varepsilon) \neq 1
· L (RE) = { p/L/p) & RE} = Prog
  2(p):
       retur 1
 · ( ($p) = {p | L(p) & p} = pe
    9/p):
return 0
    T (Rice, Yeneneuws-Passe)
        X \subset RE, X \neq \emptyset, X \neq RE
    Torga L(x) repagneruum
X - Hempub. cb-Go
   DU &X
     A \in X
    A nonypaynem. PA
   1 L(x) - payperum
                                        9×(p) = {1, L(p) ex
0, L(p) & x
     9x - pagneument ((X)
     c():
                                       U(p, x)
        while trae
                                         S = "S(y);
if p(x) = 1
                                                                         Jucnous jobanu Korenozususo
     q_{\chi}(c)=0
                                                                                     morparule
                                                      return PA(y)
     9x (pa) = 1
                                                 el se
while true "
                                                                          2) Cornoassobanus rempubusas norto
                                          return qx(s)
     \exists p(x)=1 \Rightarrow \forall y s(y)=p_0(y) \Rightarrow \angle(s)=\angle(p_0)=A \in X \Rightarrow q_{X}(s)=1 
   \int p(x) \neq 1 \implies \forall y \quad s(y) - 3ab ucalom \implies \angle(s) = \cancel{\phi}(+x) \Rightarrow q_x(s) = 0
                                  - Kaunu passemment \mathcal{U} =) nonuboner
```





 $\underline{A} \leqslant_n B, \quad B \text{ posperium} \Rightarrow_n A \text{ posperium}$ in A(x)return in B(f(x))

 $\frac{1}{2}$ $A \leq_m B$, A repayelum $\Rightarrow B$ repayelum