$$\begin{split} R_{2e+1} &: \qquad \chi_{A} \neq \tilde{\Phi}_{e}^{B} \\ R_{2e+2} &: \qquad \chi_{B} \neq \tilde{\Phi}_{e}^{A} \\ \hline \\ Stage 0 : Define \quad \alpha_{o} = \beta_{o} = \Lambda \\ \hline \\ Strage 2et1 : \qquad \\ \\ Strage 2et2 : \qquad We define \quad \alpha_{2e+2} \quad and \quad \beta_{2e+2} \quad to \quad softsty \quad R_{2e+2} \quad as follows: \\ Lef \quad n = |\beta_{2e+1}| + 1. \\ If (\exists \sigma)(\exists t) [\alpha_{2e+1} \subset \sigma \quad and \quad \tilde{\Phi}_{e_{1}}^{\sigma}(n), f] \quad then \\ define \quad \alpha_{2e+2} = \sigma, \quad \beta_{2e+2} = \beta_{2e+1}^{\sigma} \wedge 0. \\ & otherwise \quad define \quad \alpha_{2e+2} = \alpha_{2e+1}^{-1} \wedge o (erl), \quad \beta_{2e+2} = \beta_{2e+1}^{-1} + 1. \end{split}$$

Can jou do this by v.e. Improved?
(lemma:
$$(\forall A)[A is i.e. \Rightarrow A \equiv rK]$$
. The convertise is failed.
Friedbarg - Much nik Theorem : J in comparable r.e. languaged.
 $\overrightarrow{Pt} \xrightarrow{\pi \text{ build inves Priority argument}^{n}}$
 $\overrightarrow{Pt} \xrightarrow{\pi \text{ build investor of Much proble r.e. sets A, B in staged.}$
Ie well define sets $\overrightarrow{A_1} \subseteq \overrightarrow{A_2} \subseteq \cdots$ and $\overrightarrow{A} = \bigcup_{s=1}^{\infty} \overrightarrow{A_s}$
 \overrightarrow{M} $\overrightarrow{B_1} \subseteq \overrightarrow{B_2} \subseteq \cdots$ and $\overrightarrow{B} = \bigcup_{s=1}^{\infty} \overrightarrow{B_s}$.
Requirements we the same: $\overrightarrow{R_2e_1} : \overleftarrow{A} \neq \overrightarrow{D_e}^B$ and $\overrightarrow{R_2e_{t_1}} : \overleftarrow{A}_B \neq \overrightarrow{D_e}^A$.
The strategy for meeting a single requirement $\overrightarrow{R_{2e+1}}$ is to

attach to it a potential witness X not yet in A. If a stage s reached s.t. $\underline{P}_{e,s}^{B_s}(x)J^{so}$ then we say R_{2e+1} "Needs attention" at Stage st1. Analogously, R_{2e+2} needs attention at stage st1 of $\underline{\Phi}_{e,s}^{A_s}(x)U=0$. We attend to the one of strongest priority (i.e. of smallest index).

Assume the strongest priority requirement that needs after is j=2et1. Then we do

- (1) $A_{st} \leftarrow A_s \cup \{X\}$
- (2) update the restraint function:

 $\Gamma_{j}^{s+1} \leftarrow 1 + The right most possition of the oracle head during$ $the computation of <math>\overline{\Phi}_{es}^{Bs}(X)$