## M computes fif + WE Ext Mcw)= f(w)

## DUFCOD-> machine holts Read First 12 min from slides or extens

Let  $M = (K, \Sigma, \delta, s, \{h\})$  be a TM,

 $\Sigma 0$  subset of  $(\Sigma - \{ \sqcup, \triangleright \})$  be an alphabet

And let L is subset of  $\Sigma_{\circ}^*$ 

We say that M semidecides L if for any  $w \in \Sigma_o^*$ 

if and only if M halts on input w.

A language L is *recursively enumerable* if and only if there is a TM M that semidecides L.

If a L is recursive, then it is also recursively enumerable.

If a L is recursive, then it is complement is also.

Two take truip machines

One step, great All heads



