9. LEC-18 Paciduces consumer problem - boarded buffer packson. @ Problem Hatewent O Produces shread & consumer shread Produces data Paodoces Jacker?, ), buffer a jiske andon saf Producer produce kale, kale obla to buffer more about deta h Consume kya nala n jb produces produce kadela n yani ki noi bai N work , storting empty, produce produce kg ke doalego \* Mujle EX Egrolamization Ko method charige KI produces it produces is produced in produces in produce AR ALO LO BO produce MA Ke doble of consumer us fine interfere no marie utrave nagae. Problem ?? (S (buffer) -) shared resource the , challe whi he inconsistency no, was ex synchronize way thread xa access Craffa Lu - 24 vc 5/10 produces thread & consumer thread. - Paduce wust not used data comen the buffer is full. - consumed must not pick 19 emove data when ouffer is empty KyuK, -CPU Cycle waste whi Kadui

Sol" - Semaplace	, ,	
Ow, muter -> hvas	y savo. used to	acquire lock or buffer.
1) empty sava - a soi initia	unturg sava.  I value is ~ > 1:6	e Hyok; Hading was sides all Langs
B full -> 400kg filled : sona - initial =0	13	0
Produces do { waif (empty); //waif unl. then rempty	1 do { 1 coait 1	(111); // was will full to, then
wait ( wutex);  // CS, add data tobaffer  Signal (wutex);  Signal (full); // werewent	1 Signal 18	matex); e data from buffer (mutex); mpty); // warement empty.
3 while (1)  -> muter -> mutual ex	,	