Tom Mi B= recursive

B= non rearnive ANDA - MANAY 1)  $S \rightarrow 5a | 5Ba | Ba | a$   $B \rightarrow bB' | a$   $B \rightarrow bB$ A -> ag B-> Bb Ba b non recursive MAN 1 N= a B-Ba y= RA g=a 5-> BAS' | 95' Answer 5'-> a5' Ba5' E A-7009 B'-> bB' | aB' | E

Jon Mutu Conners 2. No, there is left recursion so NOT in UL(1) -15-> abCS abC AC A->Aa|b- NX=a B=b A-ig. A' -> aA'/E c->cc|D D-> dd thaxas 1: 5-> abC5 abc AC A-> 6A' A-> aA E C-> cc/D D -> dd 1 / A / B }  $S \rightarrow A A ab X | AC$   $X \rightarrow C | C S$   $A \rightarrow b A$ A' -> aA / g C->CD  $D \rightarrow dd$ 

 $5 \rightarrow ab X / AC X \rightarrow C / CS -$ >X->CT T->9/2 A->6A' A > a A/12 C-> cC/D D-> dd Now to for all production grown or LL(1) 5-> abX AC  $X \rightarrow CT/CS$   $A \rightarrow bA'$ A-SaA'/2 C->8C/D  $0 \Rightarrow dd$