Assignment II., Theory part [Due: 17.02.79]

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1. LL(1) paising table construction

Original grammar:

(-) e | E

S-CLE L-LE/LE E-Es/V V-b/c/n/E

Modified grammar (without left recurrious):

 $S \rightarrow C L E$ $L \rightarrow L E L'$ $L' \rightarrow E L' \mid \mathcal{E}$ $E \rightarrow UE'$ $E' \rightarrow SE' \mid \mathcal{E}$ $U \rightarrow b \mid C \mid n \mid \mathcal{E}$

Table of Frst (9), Follow (9) and Nullable (9) First Follow Nollable {b, c, m, s} Vo {b, G, M, S} Yes Yes {b,c,n,s} Yes Yes This creates ambiguity in the parson jas seen below! L-EL L-EL L-1 1 | - F | - | E-VE: E-VE E-VE E-oq E-oq [=-oq st V-06 V-n U 1) - C * (onligh on all entropy of E=> Not suitable