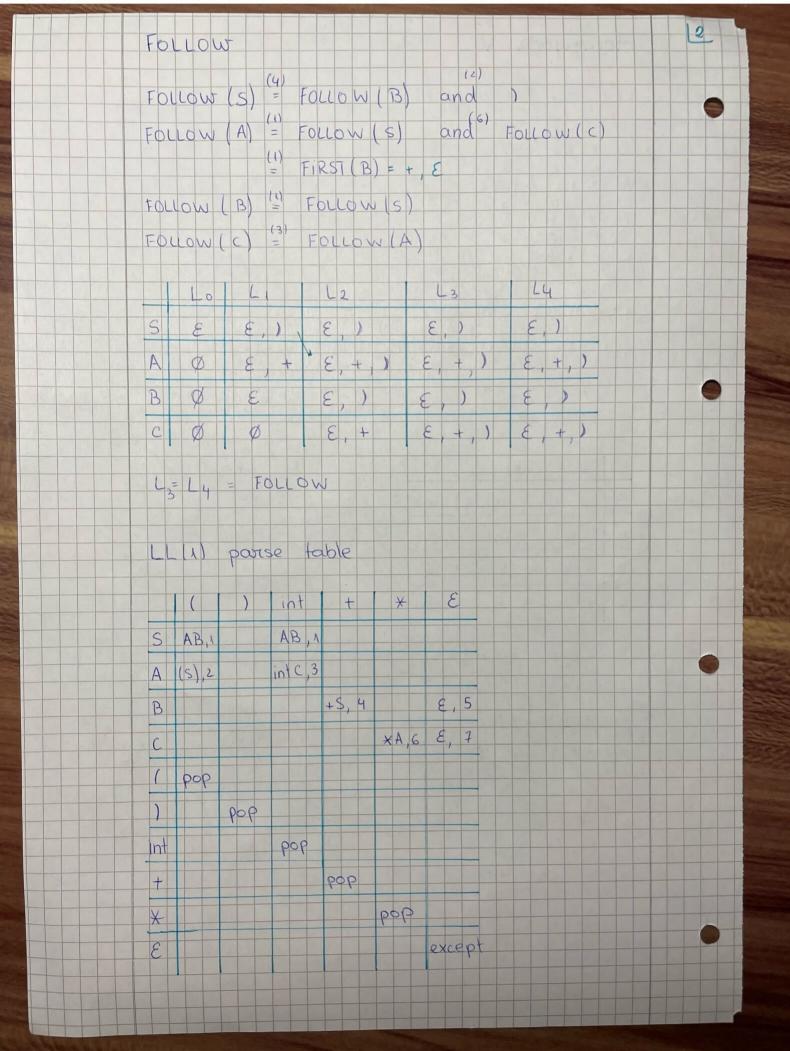
Homework 10 Consider the grammar with productions: S -> AR  $A \rightarrow (S) \mid \text{int } C$ Construct FIRST, FOLLOW, LL(1) table and perform LL(1) poorsing for w=(int) + int FIRST (X, Xn) = FIRST (X) + FIRST (Xn)  $F_0$   $F_A$   $F_2$   $F_2$  =  $F_3$  = FIRST S Ø (, int (, int A (, int (, int B +, E +, E +, E C \* E \* E \* E FIRST (S) = FIRST (AB) = FIRST (A) = 1 (, int FIRST (A) = (1, int) FIRST (B) = 1+, 8}  $FiRST(c) = \{ \times, \epsilon \}$ 



LL(1) parsing for w = (int) + int (int) + int \$, S\$, E) - ((int) + int \$, AB\$, 1) - (lint) + int \$, (s)B\$, 12) - (int) + int \$, s)B\$, 12) - (int) + int \$, AB)B\$, 121) - (int) + int \$, int CB)B\$, 121,3) -()+int \$, CB)B\$, 1213)+()+int \$, B)B\$, 12137) - (1 + ints, 18\$, 121375) + (+ints, 8\$, 121375) - (+ int \$, + \$ \$, 12 3 7 5 4) - (int \$, \$ \$, 12 13 7 5 4) L (int \$, AB\$, 1213754) H (int \$, int CB\$, 12137543) - (\$, CB\$, 12137543) + (\$, B\$, 121375437) H (9, \$, 1213754375) S -> AB  $A \rightarrow (s)$  $B \rightarrow + S$  $C \rightarrow X A$