Language Engineering Lecture 11 expr: term \$ ('+' expr)*
term: number
1 '(' expr')' Using perser combinators, he have a few steps to follow: 1. Create a datatupe that corresponds
to the non-terminals (and groups).
-expr : term (+ expr) * data Expr = Expr Term [Exprs] data Exprs = Add Expr data Team = Number Int Parens Expr This procen was advised by creating a new dotatype for each non-terminal, whose constructors correspond to the RHS of the vale. A new datatype should also be made for each group in the same way.

2. For each datatype we create a corresponding parser, usually named after the datatype. For instance data Exp = Exp Tem [Exprs] will create the perses: expr :: Parcer Expr expr = Expr <\$> tcm <*>many exprs This corresponds to the rule: exprs: '+' expr [here we named the grove explicitly,] but it's essentially the somegament] So we must how define the parsers term and exprs.

3 3 For the rule: term: number ('C' expv') 3 9 We have data Tem = Number Int ş Mary 1 Parens Expr The corresponding perces is: 3 É term :: Parsu Tenn tem = (Number <\$> number) <1>(Parens < tok "(" <*) expr <* tole ")") ŧ For exprs we dother: rule: exprs: '+' expr data Expr = Add Expr expors :: Parser Exprs 9 exprs = Add <\$ tok "+" <*> expr