IFJ2020 Grammar rules *– by Poli && Coacher*

## Terminals

ID, K\_WORD, PLUS, MINUS, TIMES, DIV, EQ, L\_EQ, G\_EQ, LESS, GREAT, N\_EQ, L\_VINC(, R\_VINCL), LEFT\_BRAC{, RIGHT\_BRAC}, IF, ELSE, FOR, IS, ASSIGN, STRING\_LITERAL, INT\_LITERAL, COMMA, DOUBLE\_LITERAL, RETURN, PACKAGE\_MAIN, Q\_MARK (uvozovky), F\_MAIN (povinná funkce main), TRUE, FALSE, EOF, EOL, FUNC(jen speciální K word..), ASSIGN

## Non-Terminals

<prog>, <func>, <param>, <retval>, <retvals>, <body>, <f\_retval>, <expr>

## Rules

-------------------Funkce, tělo programu, definice funkcí a návratových paramatrů-------------------

* 1. <prog>
     1. <prog> -> PACKAGE\_MAIN <func>
     2. <prog> -> EOF
  2. <func>
     1. <func>-> FUNC ID L\_VINCL <param> <retvals> L\_BRAC <body> <f\_retvals> R\_BRAC
  3. <param>
     1. <param> -> R\_VINCL
     2. <param> -> COMMA [INT, DOUBLE, STRING,] ID <param>
  4. <retvals>
     1. <retvals> -> L\_VINCL <retval> R\_VINCL
     2. <retvals> -> ε
  5. <retval>
     1. <retval> -> [INT, DOUBLE, FLOAT]
     2. <retval>-> [INT, DOUBLE, FLOAT] COMMA <retval>
  6. <f\_retvals>
     1. <f\_retval> -> ε
     2. <f\_retval> -> <f\_retval>
  7. <f\_retval>
     1. <f\_retval> -> <expr>
     2. <f\_retval> -> <expr> COMMA <f\_retval>

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* 1. <body>
     1. <body> -> ID ASSIGN <expr>