# Tema lab 1

1.

MLP -> C++ (EBNF)

program = bloc\_importuri {bloc\_struct} bloc\_instructiuni.

bloc\_importuri = ”#include <iostream>; using namespace std;”.

bloc\_struct = “typedef struct” nume\_struct “{” {instr\_declarativa”;”} “};”.

nume\_struct = id.

id = litera|

litera caracter |

litera caracter caracter |

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litera = “a” | “b” | … | “z” | “A” | “B” | … | ”Z”.

caracter = litera | cifra.

cifra = “0” | “1” | … | “9”.

instr\_declarativa = tip lista\_id.

tip = “int” | “float” | nume\_struct.

lista\_id = id {“, ” id}.

bloc\_instructiuni = “int main() {” lista\_instructiuni “}”.

lista\_instructiuni = {instructiune}.

instructiune = instr\_declarativa”;” | instr\_citire”;” | instr\_scriere”;” | instr\_atribuire”;” | instr\_if”;” |instr\_while”;”.

instr\_citire = “cin >>” id.

instr\_scriere = “cout <<” id.

instr\_atribuire = id “=” expresie.

expresie = id | const | expresie “+” expresie | expresie “-” expresie |

expresie “\*” expresie.

instr\_if = “if (” conditie “) {” lista\_instructiuni “} else {” lista\_instructiuni “}”.

instr\_while = “while (” conditie “) {” lista\_instructiuni “}”.

conditie = expresie “>” expresie | expresie “!=” expresie.

const = “3.14” | cifra.

MLP Raul - nu are:

- if simplu sau if/else fara acolade

- do while

- for

- while fara accolade

- functii