Mod de rezolvare: EBNF

program = header, program\_main ;

header = header\_item, ’;’ ;

header\_item = ‘#include <’,librarie, ’> ’ | ‘using namespace ’,namespace ;

librarie = ‘iostream’ | ‘cmath’ ;

namespace = ‘std’ ;

program\_main = ‘int’, ‘main()’, ‘ { ‘, lista\_instr, ‘ }’ ;

lista\_instr = instr, lista\_instr | instr ;

instr atribuire | instr\_intrare | instr\_iesire ;

atribuire = tip\_data, ID ;

tip\_data = ‘int’;

expr = expr, operatie, variabila | expr, operatie, numar | variabila | numar | variabila, operatie, numar | variabila, operatie, variabila ;

variabila = ID ;

ID = litera, { litera | numar} ;

litera = [a-zA-Z] ;

numar = 0 | [1-9]\* ;

operatie = ‘+’ |’-‘ | ‘\*’ ;

instr\_intrare = ‘cin ’, ‘ >> ’, ID, ‘ ;’ ;

instr\_iesire = ‘cout ’, ‘ << ’, expr, ‘ ;’ ;