

TERM PROJECT REPORT

Python to C++ use with lex and yacc

Student

Name: Fahrettin Emre

Surname: Pabuşçu

Student_id: 20190702010

Result

I managed to declarations and initializations python code to c++ code but I can not managed if elif else states tabs.

General idea of my algorithm

To manage variable, I used 2 maps and 3 of 6 vector as stacks. One of the map store variable types, the other map store variable data which is lasted used. To example if we declare x="str" first map store x type is str second map store x data is "str". When I declare new variable is not declared before same type I sends it in data_name_(type) vector. Then, we again declare x=5 my code changes the variable type and data in two map and send the variable and again send the variable into again data_name_(type). To prevent the declarations order I use vector which has the name "data_vector" as a stack. To explain, my yacc rule read leaf to root. Three of the stacks print how we declare on the output as "int" "float" "string" respectively.