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#include <iostream>

#include <stack>

#include <sstream>

int postfixEvaluate(const std::string& expn)

{

std::stack<int> stk;

std::istringstream iss(expn);

std::string token;

while (iss >> token)

{

if (token == "+" || token == "-" || token == "\*" || token == "/")

{

int num2 = stk.top();

stk.pop();

int num1 = stk.top();

stk.pop();

if (token == "+")

stk.push(num1 + num2);

else if (token == "-")

stk.push(num1 - num2);

else if (token == "\*")

stk.push(num1 \* num2);

else if (token == "/")

stk.push(num1 / num2);

}

else

{

stk.push(std::stoi(token));

}

}

return stk.top();

}

int main()

{

std::string expn = "6 5 2 3 + 8 \* + 3 + \*";

int value = postfixEvaluate(expn);

std::cout << "Given Postfix Expn: " << expn << std::endl;

std::cout << "Result after Evaluation: " << value << std::endl;

return 0;

}