Compiler Lab

Assignment 2

**Problem Description:**

In this assignment, you will implement how to evaluate a mathematical expression. The program will ask the user to input a value(say n). Then user will input n lines of input each of which contains an identifier and its corresponding value. Then program will ask the user again to input a value(say m). Then user will input m lines of expressions. Your job is to calculate the final value for each of the given expression using first n lines of input. If you can't evaluate any expression from given numbers of identifiers then output 'Compilation Error'. Allowed mathematical operators are +(add), -(subtract), x(multiply), /(divide).

**Input:**

3

a = 1

b = 2

c = 2

2

a x b + a x c + b x c

a x c - b / c + c x c

**Output:**

8

5

**Input:**

4

g = 2

p = 3

t = 1

w = 2

3

g + p x t - w x p

t - g + t - w

e + t x t - m

**Output:**

-1

-2

Compilation Error