Gebze Technical University
Computer Engineering

CSE 222 - 2018 Spring

HOMEWORK 3 REPORT

Osman Çetin
161044069

Course Assistant: Özgü GÖKSU

PART 1 (Counting Components)

1 INTRODUCTION
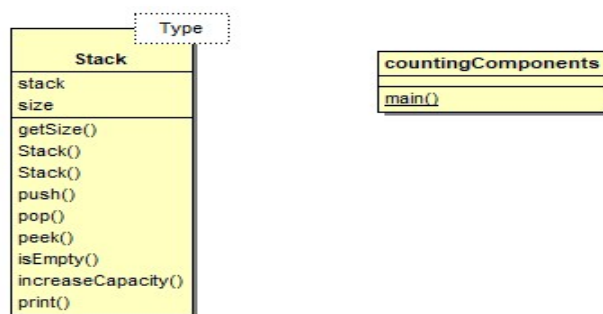
1.1 Problem Definition

In this part we implemented a component count calculator with working to rule of OOP. Firstly user send a ASCII text that keeps matrix of components. I impelemented a program that reads text and assigns values to 2D array. After than traveler cursor travels array from first variable and finds components. Finally prints the result on screen.

1.2 System Requirements

- Minimum 128MB RAM capacity
- Minimum 124MB of disk space
- Minimum Pentium 2 266 MHz processor
- Java Virtual Machine

2 METHOD

2.1 Class Diagrams

Type

Stack

stack
size

getSize()
Stack()
Stack()
push()
pop()
peek()
isEmpty()
increaseCapacity()
print()

countingComponents

main()

2.2 Use Case Diagrams

We expected from user a text which include a component's matrix map. After than program calculates and prints automaticly how many components map includes.
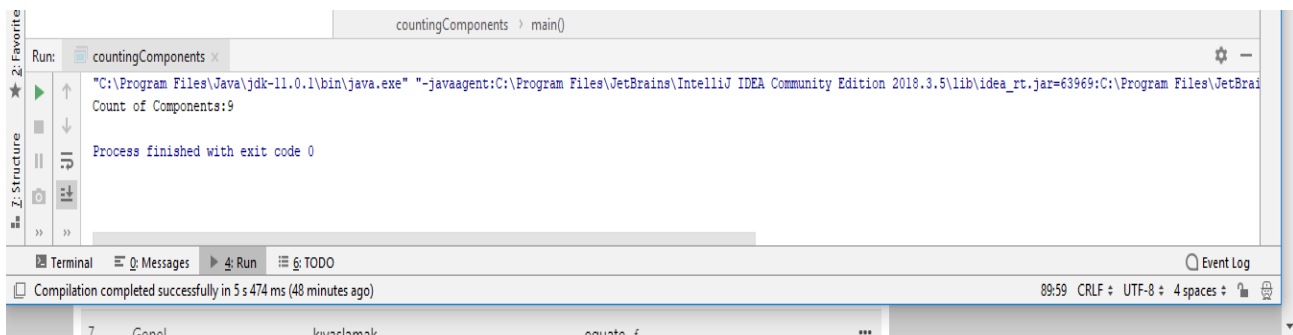
2.3 Problem Solution Approach

I explained this question on code in comment lines.

3   RESULT

3.1 Test Cases

I tested my program with given test text from assistants. I calculated how many components test text includes myself. And compared with program's result.

3.2 Running Results

PART 2 (Calculator)

4   INTRODUCTION

4.1 Problem Definition

In this part we implemented a program that calculates infix expression with working to rule of OOP. Firstly user send a ASCII text that keeps infix expression. I impelemented a
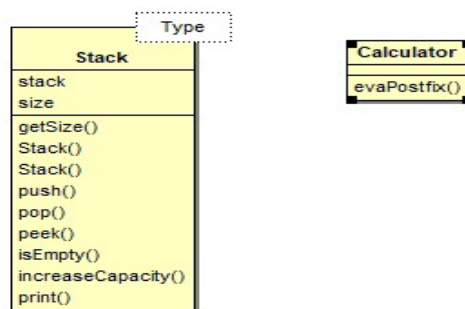
program that reads text and assigns expression to string. After than some funcitons calculates result. Finally prints the result on screen.

4.2 System Requirements

- Minimum 128MB RAM capacity
- Minimum 124MB of disk space
- Minimum Pentium 2 266 MHz processor
- Java Virtual Machine

5 METHOD

5.1 Class Diagrams

5.2 Use Case Diagrams

We expected from user a text which include a infix expression. After than program calculates and prints automaticly result of expression.

5.3 Problem Solution Approach

I explained this question on code in comment lines.

6 RESULT

6.1 Test Cases

I tested my program with given test text from assistants. I calculated expression by hand. And compared with program's result.

6.2 Running Results