Lab 6.2 COMP 248

Due date: Today, at the end of the lab period.

Read this entire document before beginning your lab.

Arrays & Nested Loops

Today you are commissioned to write a program that will input 5 strings from a user that you store in a String array, modify these strings and with the use of for loops and nested for loops reproduce the specific pattern illustrated in the figures below.

Retrieve 5 words from the user (we are assuming they are at least 3 character long) and store them into an array. Modify the strings by replacing the last letter of each word by a *. Then find the appropriate combination of for loops to display the content of the array of strings exactly as displayed in the sample below.

REMEMBER in the output: \circ is a space, \rightarrow is a tab and \dashv is a new line. Text in green is user input.

```
Enter∘5∘words: ☐

aaa∘bbb∘ccc∘ddd∘eee ☐

→ → → → bb*→ bb*→ ☐

→ → cc*→ cc*→ cc*→ □

→ dd*→ dd*→ dd*→ dd*→ ☐

ee*→ ee*→ ee*→ ee*→ □
```

```
Enter∘5∘words: →
abcd∘efgh∘ijkl∘mnop∘qrst↓
\rightarrow
            \rightarrow
                        \rightarrow
                                    \rightarrow
                                                abc*→ →
\rightarrow
            \rightarrow
                        \rightarrow
                                   efg*→efg*→ ↓
\rightarrow
            \rightarrow
                        ijk*→ijk*→ijk*→ ↓
            mno*\rightarrow mno*\rightarrow mno*\rightarrow mno*\rightarrow \bot
qrs*\rightarrow qrs*\rightarrow qrs*\rightarrow qrs*\rightarrow \downarrow
```

```
🚼 Markers 📃 Properties 🤼 Servers 👫 Data
<terminated> Lab6_2 [Java Application] C:\Program
Enter 5 words:
aaa bbb ccc ddd eee
                                     aa*
                                     bb*
                           bb*
                  cc*
                           cc*
                                     cc*
         dd*
                  dd*
                           dd*
                                     dd*
ee*
         ee*
                  ee*
                           ee*
                                     ee*
```

```
🔣 Markers 📃 Properties 🤼 Servers 🏨 Data Sc
<terminated> Lab6_2 [Java Application] C:\Program |
Enter 5 words:
abcd efgh ijkl mnop qrst
                                    abc*
                           efg*
                                    efg*
                  ijk*
                           ijk*
                                    ijk*
         mno*
                           mno*
                                    mno*
qrs*
         qrs*
                           qrs*
                                    qrs*
                  qrs*
```

Note:

- 1. You are to expect a perfect user who will always enter strings with at least 3 characters; that is, **do not** verify the validity of the user input.
- 2. The use of libraries other than java.util.Scanner is prohibited.
- 3. Final thought, remember that the solution is case and space-sensitive.

Reminder:

When submitting your solution to the lab system, make sure there is no package statement at the top of your .java file as this will result in a grade of 0 (restriction of this system).