## JAVA-1 - Toto Command Line Application

**Conversation**

Your first task is to create a simple, console-based application. This application is a sport betting game.

The attached toto.csv file contains the results of a sport betting game. The data values (separated by semicolons) are given in the following order:

Year

Week

Round (there can be more than one round in a week)

Date

Number of games with 14 hits

Prize for 14 hits

Number of games with 13 hits

Prize for 13 hits

…

Number of games with 10 hits

Prize for 10 hits

Numbers (13 + 1), possible outcomes:

1: team #1 won

2: team #2 won

X: draw

**Implement a Java program to answer the following questions:**

Which was the largest prize ever recorded?

What is the distribution of the 1/2/X results of every round?

Given a specific date and a specific list of numbers (a list of 1/2/X), how many hits and what amount did it mean for the wager?

The input file can be found in **materials** folder :

The project name has to be “toto-application”, and it has to contain at least the following classes:

|  |  |
| --- | --- |
| Class | Description |
| com.epam.training.toto.App | Entry point for the application. It uses TotoService to get results and prints them to the console. |
| com.epam.training.toto.domain.Round | A class to represent the results of a round. (One line of the CSV) |
| com.epam.training.toto.domain.Hit | A class to represent hits, number of games and price of a specified hit number in a specified round. |
| com.epam.training.toto.domain.Outcome | An enum for the possible outcomes. (1/2/X) |
| com.epam.training.toto.service.TotoService | A class, that implements methods to satisfy confirmation. (see below) |

You can create any number of additional classes if you wish to.

**Confirmation**

The program provides the following features:

read input data from file

print the largest prize ever recorded to the console

print the correct the distribution of the 1/2/X results of each round to the console, for example:

|  |
| --- |
| team #1 won: 33.33 %, team #2 won: 33.33 %, draw: 33.33 % |

calculate and print the hits and amount for the wager, for example:

|  |
| --- |
| Enter date: 2015.10.29.  Enter outcomes (1/2/X): 21112221211112  Result: hits: 14, amount: 76 500 UAH |

use DecimalFormatter

use DateTime API instead of java.util.Date

use Java 8 stream API