

Hacettepe University
Department of Computer Science and Engineering

BIL138 Programming Laboratory
Experiment I

Subject:	C++ Programming
Advisors:	Ebru SEZER R.A. Kerem ERZURUMLU
Submission Date:	01/07/2002
Design Report Deadline:	04/07/2002
Deadline:	11/07/2002
Programming Language:	ANSI C++

AIM

The aim of this experiment is to get students familiar with both with C++ programming and the programming environment of the Unix (Linux) Operating System.

Unix and its variants have become the de-facto (i.e., not in writing but by common consent) industrial standard for multitasking server systems. In recent times, flavors of Unix (Linux) have been ported to machines with limited hardware, such as PC's (Personal Computers). A working knowledge of Unix will probably be the best advantage of a computer engineer in the future.

BACKGROUND

As you know Türkiye's most popular chance game is called "Sayısal Loto". In sayısal loto you will take 6 number from the range of 1 to 49. You can play a game card for 1,2,3 or 4 weeks. Each week a draw is made and 6 number is selected. The persons who matches 3,4,5 or 6 of this numbers.

OBJECT

You have to write a program that will work from command line. It will take firstly the file name which's format will be given, process the file, than read from user "the six lucky numbers". Then it will print to screen number of 3,4,5 and 6 number guessers. Then back to start until operator wants to quit. The user file's line format is below;

```
Userid:UserName And Surname:n1:n2:n3:n4:n5:n6:d
```

Userid: Can be alphabetical sting. Maximum limit is 8 digits.

UserName and Surname: A person can have 1,2 or 3 names and a surname

N1: Guessed first number

N2: Guessed second number

N3: Guessed third number

N4: Guessed fourth number

N5: Guessed fiveth number

Bil138 - Experiment I

N6:Guessed sixth number

D: Duration for game. Can be 1,2,3 or 4. If not set it is assumed as 1

NOTES

1. Your program must be suitable for Linux Platform. So do not use Windows tools like developer etc...
2. Object Oriented structure is a must.
3. Input file is error free. So becarefull what you read.
4. Your program will be run on heavy tests. Watch-out for memory usage.
5. Be carefull about "segmantaion fault"s. Each segmantation fault will cause for you 15 points.
6. In case of R.A.'s modifying of source code to make the program work you will be punished with 20 points.
7. You are asked to follow announcements made to "bil235 discussion list". If you are not subscribed yet, please subscribe to it by sending an e-mail to:
majordomo@cs.hacettepe.edu.tr
with a message body of
"subscribe bil235".
8. Your report and program must be submitted at the same time.
9. Your report must include your source codes.
10. Late submissions will not be accepted.
11. Do not disturb K.E. and E.S. about deadline postponage.
12. Office hours will be held on mornings. You can also send e-mails to
kerem@linux.org.tr for your additional questions

Good Luck