

04/12/2017

BLM1551
BBG – I
Assignment – 3
(Due 18/12/2017 – 23:59h)

Q1

Design an algorithm, which tries to find the correct password generated by the system. Afterwards, code the algorithm in Pascal.

Your system will either accept a password from the user or generate a random password (weak(4), medium(6), strong(8)) whose characters consist of

- only digits
- only lowercase letters
- both lowercase letters and digits
- lowercase letters, digits and uppercase letters

Do make necessary controls to prevent user mistakes. The system does not know any character of the password. Do not check the password character by character.

Inputs: The password (if necessary)
The type of password and the type of characters

Output: The number of attempts
The password
The time duration passed until the password has been guessed correctly.

Examples

user-defined password:

1986

Attempts:

xxx times

The Password:

1986

Time Duration:

0.25 sn

BLM1551

NEW Specifications for Assignments

Submission

- Assignments submitted after submission deadline (at most 2 days late) will be evaluated over 50. Do not send any e-mail 3 days after submission deadline.
- Collaboration on any assignment is strictly prohibited. Submitted assignments are automatically checked for similarities. Infractions will be given a zero for the entire assignment.
- Assignments **MUST** be submitted by e-mail. Every student must send his/her assignment to the following e-mail address.

amac@yildiz.edu.tr

- Subject of the e-mail **MUST** contain course name, Assignment # and student number in specified format written below;

Example Subject :

BLM1551_Assignment_1_13011001

Content

1. An archive (zip, rar) file which contains only **ONE report file** and **ONE or MORE source files**. The question number indicates the number of source files.

2. The report file should include

- **1. Question** - A brief description for each question
- **2. Solution** - An explanation for each solution
- **3. Analysis** - Numerous (at least 5, if necessary more) screenshots to show that your program runs correctly
- **4. Source Code** - The source code (use Notepad++ or the equivalent to have colored codes)
- **NO Flowchart is required**

About Source Code

The source file must include **comments** which explain the code
The code should be **well-designed**

About Comments

- Important algorithmic parts must be commented.
- You must write a heading comment describing you and the program

3. The name of the submitted files must contain student number and question number. (q1 refers to "Question 1")

Example: zip/rar filename : 13011001.rar

The zip/rar should contain

pdf filename: 13011001.pdf
Source filename: 13011001_q1.pas
Source filename: 13011001_q2.pas
// No separate jpg, bmp, etc. files

ATTENTION

- Do not use double filename extensions. For example, xxx.zip.rar, xxx.c.exe, ... etc. Otherwise your mail will be blocked by spam filter and your assignment will not be evaluated.
- Assignments that don't comply with submission rules will **NOT** be evaluated. **"NO EXCEPTION"**