IF184401 Design & Analysis of Algorithms (F)

Quiz 1

Starting date:	13 February 2019
Deadline:	23 February 2019, 23:59 WIB.
Exam type:	Open
Send to:	MM Irfan Subakti <yifana@gmail.com> CC to Muhammad Ryanda Nugraha M <muhammadryandanm@gmail.com> with the subject: IF184401_DAA(F)_Q1_NRP_Name
File type and format:	A full report of the title, problem description, problem abstraction, solution and source code; in PDF format
Filename format:	IF184401_DAA(F)_Q1_NRP_Name.PDF

Instruction
Please do these steps as in the following.

1. Two problems need to be solved are in the following.

   (1) 7704 Civil Engineering: https://www.spoj.com/problems/CIVIL/

   (2) 12746 Colorful Circle (EASY): https://www.spoj.com/problems/CRCLE_UI/

2. For each problem above, please explain in detail these following sections.
   - The title of problem
   - Problem description
   - Problem abstraction
   - Solution
   - Source code for SPOJ

   (1) 7704 Civil Engineering: use the variations of integral and differential which should already been discussed from Calculus lectures.
   (2) 12746 Colorful Circle (EASY): use the recurrences relations which should already been discussed from Discrete Math lectures.

3. If you don't have an account in SPOJ.com, please sign up on www.spoj.com. Make a proper account's name and location (*country*: Indonesia, *city*: Surabaya). Most importantly, please don't forget to put "Institut Teknologi Sepuluh Nopember" for the *institution*.

4. Please also write in your report, your SPOJ account's **name** & **password**, as in the following.

   SPOJ's account's name: <write_your_account_name_here>
   SPOJ's account's password: <write_your_account_password_here>

5. Once you got a SPOJ's account, please solve these problems as in the following. Submit your solution's code to SPOJ and make sure it's **accepted by SPOJ** for each problem.

6. To avoid plagiarism/cheating, every student needs to pledge and declare, then she/he must submit her/his **signed pledge and declaration** as in the following. Failed to do so will be resulted in getting 0 (zero) grade. Attach the **scanned**/**photo** of your *declaration* in your report.

   "By the name of Allah (God) Almighty, herewith I pledge and truly declare that I have solved quiz 1 by myself, didn't do any cheating by any means, didn't do any plagiarism, and didn't accept anybody's help by any means. I am going to accept all of the consequences by any means if it has proven that I have been done any cheating and/or plagiarism."

   [Place, e.g., Surabaya], [date, e.g., 23 February 2019]

   <Signed>

   [Full name, e.g., Mukidi Mukiyo]
   [NRP, e.g., 05111340000xxx]

7. Have a great day! Good luck! 😊