EF234405 Design & Analysis of Algorithms (B) Quiz 1

Starting date: Deadline:	20 March 2024 27 March 2024, 23:59 WIB. Penalty: 0.15% of grade/minute of tardiness.
Exam type: Send to:	Open, Individual Project
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	EF234405_DAA(B)_Q1_StudentID_Name
File type and format:	A full report of the title, problem description, problem abstraction, solution and source code; in PDF format
Filename format:	EF234405_DAA(B)_Q1_StudentID_Name.PDF

Instruction

Please do these steps as in the following.

- 1. Two problems that need to be solved are the following.
 - (1) SPOJ Classical 9034 Help Tohu
 https://www.spoj.com/problems/TOHU
 Time complexity: O(1)
 - (2) SPOJ Classical 14138 Amazing Factor Sequence https://www.spoj.com/problems/AFS Time complexity: O(√n)
- 2. For each problem above, please explain in detail the following sections.
 - The title of the problem (2%)
 - Problem description (3%)
 - Problem abstraction (10%)
 - Solution (75%)
 - o Details of the strategy of the algorithm: observations and theory references
 - Any relevant concept(s) used for solving the algorithm's design
 - Design of algorithm in the pseudocode representation
 - Source code for SPOJ (10%)
- 3. If you don't have an account on SPOJ.com, please sign up at **www.spoj.com**. Make a proper account's name and location (*country*: Indonesia; *city*, e.g., Surabaya). Most importantly, please don't forget to put "Institut Teknologi Sepuluh Nopember" for the *institution*'s name.
- 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 have a SPOJ 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. You have to include the evidence of the submission and the "accepted" verdict in your report.
- 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. Failing to do so will result in getting a 0 (zero) grade. Attach the scanned/photo of your declaration to 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 done any cheating and/or plagiarism."

[Place, e.g., Surabaya], [date, e.g., 27 March 2024]

<Signed>

[Full name, e.g., Rianti Linuwih Dewi] [StudentID, e.g., 5025221xxx]

7. Have a lovely day, guys! Good luck! 😊