MID TERM



Name

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NIM

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Class

11

Department

Information Technology

Study Program

D4 Informatics Engineering

Question 1

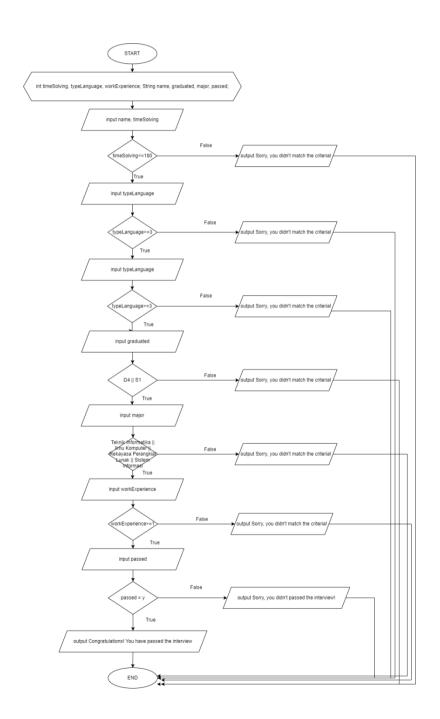
A software development company is looking to hire new employees with exceptional programming talent. They have unique criteria for the selection process:

- 1. Employees must be able to solve complex mathematical problems in a short time, specifically less than 180 minutes.
- 2. Employees must have in-depth knowledge of programming languages, mastering at least 3 types of programming languages.
- 3. Employees must have graduated from a D4 or S1 program in Teknik Informatika/Ilmu Komputer/Rekayasa Perangkat Lunak/Sistem Informasi.
- 4. Employees should have at least 1 year of work experience.
- 5. Employees must have passed the interview.

Employees who meet all these criteria are considered to have passed the selection, otherwise, they are considered to have failed the selection.

Create a program in Java (60%) and complete it with an explanation in the form of a flowchart or narrative (40%)!

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Name: Sherly
Time of problem solving (minutes): 180
Mastering of programming language: 5
Graduated (D4 or S1): s1
Major: teknik informatika
Sorry, you didn't match the criteria!
PS D:\College\Semester 1\Daspro\Practice>
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Question 2

Create a program (60%) to display and sum a series of numbers as shown below: 1.0 + 2.5 + 2.0 + 3.5 + 3.0 + 4.5 + 4.0 + ... + 99.0 = 9948.0

Also, provide an explanation of the program (40%) which can be in the form of a flowchart or narrative!

Here's a Java program that uses a for loop to display and sum the series of numbers as shown, followed by an explanation of how the program works:

The first series is a simple increment of integers from 1 to 99, and the second series is an increment of numbers starting from 2.5 up to the value of 'i,' which is the upper limit of the first series.