

PROOF IT Java Technical Task

The task consists of two parts:

- Practical task
- Theoretical Q&A

Practical task description

Aim of this part is to understand your technical knowledge and attention to detail. Please write your code as clean as possible.

What needs to be done (in priority):

1. Adjust code so that project can be compiled successfully
2. Write functionality that makes unit tests pass successfully
3. Add additional unit test cases (simple and corner cases)
4. Clean up the solution at your discretion

Theoretical Q&A

Aim of this part is to understand how you describe your thoughts "on paper". There are no right or wrong answers, so please be honest, study the question and answer with your own words.

Write your answers in a separate document and attach it to the solution.

1. Why interfaces are used? Can you name all the benefits and drawbacks?
2. Why do we need to have best practices? How some practice becomes a "best practice"?
3. How would you test your functionality that it works according to the requirements? Describe your thought process.
4. What it takes to be a good team member and/or leader? How can you be a great team member?
5. What is a good project structure? Why good project structure matters?

Tips:

- Don't worry if some technologies or tasks are new to you – you can use Google and other resources to look for the best ways to solve the task.
- For Clean Code practices search Google for Robert "Uncle Bob" Martin, there is plenty info out there.