

# Backend task

## Limit order.

Implement a program simulating limit order functionality.

Program allows to buy or sell X token

Program should handle one pair: USD - X token.

Program should have two inputs:

- to deposit funds (USD/X) and keep track (display) of the current balance.
- to place limit order to buy/sell X token

Program can simulate incoming buy/sell requests from other users.

Matching algorithm - any.

Programming language - any, preferable JAVA

Database - no need, can keep in memory

Please make sure proper tests coverage is provided, so we can understand how the program works.

Please provide a codebase with docker set up along with instructions how to execute.

What are we going to check:

- Matching algorithm (speed, complexity ...)
- Quality of code (structure, patterns ... )
- Quality of tests