

# Corti Developer Test

We are looking forward to an in-depth technical discussion. Good luck.

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## Scope

This test serves as the foundation of a good and result-driven interviewing process, so that we can onboard the right tech-talent as quickly as possible. Key points that are especially important during the assessment are:

- Clean and orderly code
- Good test coverage throughout the code
- Documentation

## Rules

The solution should be written in Python $\geq 3.5$  or Golang $\geq 1.11$ . We expect you to dedicate a maximum of 4 consecutive hours for the test. If you do not manage to finalize the test within this timeframe, please prepare some well-documented thoughts on how you would have solved the remaining work. Upon completion, please reply to this e-mail with the submission. During the completion of the test, do not hesitate contacting us if you have any questions.

## Task: Queue between a file reader and writer

It's your job to design a simple messaging system by using a queue service:

- Read lines from a file
- Write lines to a queue service via a network protocol
- Read lines from the queue service via a network protocol
- Write lines to a file

Implement it as 2 asynchronous workers exchanging information by using a service.

## Task requirements

- Documentation on how to run your solution
- Queuing service needs to be written with only stdlib of your language of choice
- An arbitrary ASCII text file fed into the solution should produce an identical copy

## Bonus Tasks:

- Use only one process for the reader/writer and one for the queue service
- Your solution has full unit test coverage
- You have a service/container based deployment strategy
- Documentation on design choices and alternatives
- Scaling strategy

At the technical interview you will be asked to demo your solution on your own computer.

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To learn more, please contact document owner **Lars Maaløe**, <lm@corti.ai>