

Akvelon Screening Task

2017

Change History

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Task Requirements

Notes for task:

- 1) Looking for object oriented design, break down by components, abstraction, etc.
- 2) Design approach for production code.
- 3) Unit-tests are necessary.
- 4) Looking for implementation of optimal algorithm with minimal complexity (ideally in one pass).
- 5) Implemented in a separate executable project with all the files needed to run and test the task.
- 6) The assignment time is from 2 to 3 hours.
- 7) For sending screening task via email should be used an archiver 7-Zip (strongly).

Task Definition

Given a binary matrix of 0 and 1. Find the longest sequence of 1's either row wise or column wise.

For example:

```
0 0 0 1 0 0
0 0 1 1 0 0
0 0 0 1 0 0
```

It should return highest count – 3.