



Android Development | Candidate Task

Thank you for applying for the Android Developer vacancy at Quandoo. In efforts to have a general understanding of your level of expertise, we would like to proceed with an assessment that will give you the chance to show Quandoo that you are a battle proven Engineer!

The Task: Create an Android Application for the Game of Life Simulation
(http://en.wikipedia.org/wiki/Conway%27s_Game_of_Life)

Requirements:

Build System:

- ✚ Gradle

UI:

- ✚ use a ViewGroup or a multi line TextView
- ✚ just the simplest solution you can think of
- ✚ a button to start/stop the simulation
- ✚ no scaling
- ✚ no scrolling
- ✚ fixed grid size (20x20)
- ✚ implementation must be easily exchangeable
- ✚ support landscape/portrait mode

Algorithm:

- ✚ async calculations
- ✚ performant
- ✚ implementation must be easily exchangeable
- ✚ at least one unit test

Simulation:

- ✚ user can select/deselect cells to build patterns
- ✚ user can start/stop the simulation
- ✚ no predefined patterns needed
- ✚ at least one instrumentation test

What we will review:

- ✚ project structure
- ✚ code style/structure
- ✚ code extensibility
- ✚ performance

Good luck! Once you're done please send us a link to a github repo with your work to:
assessment.submittal@quandoo.com

Sincerely,
Your Quandoo Team