golem Alpha III Hackathon

No More COFUD

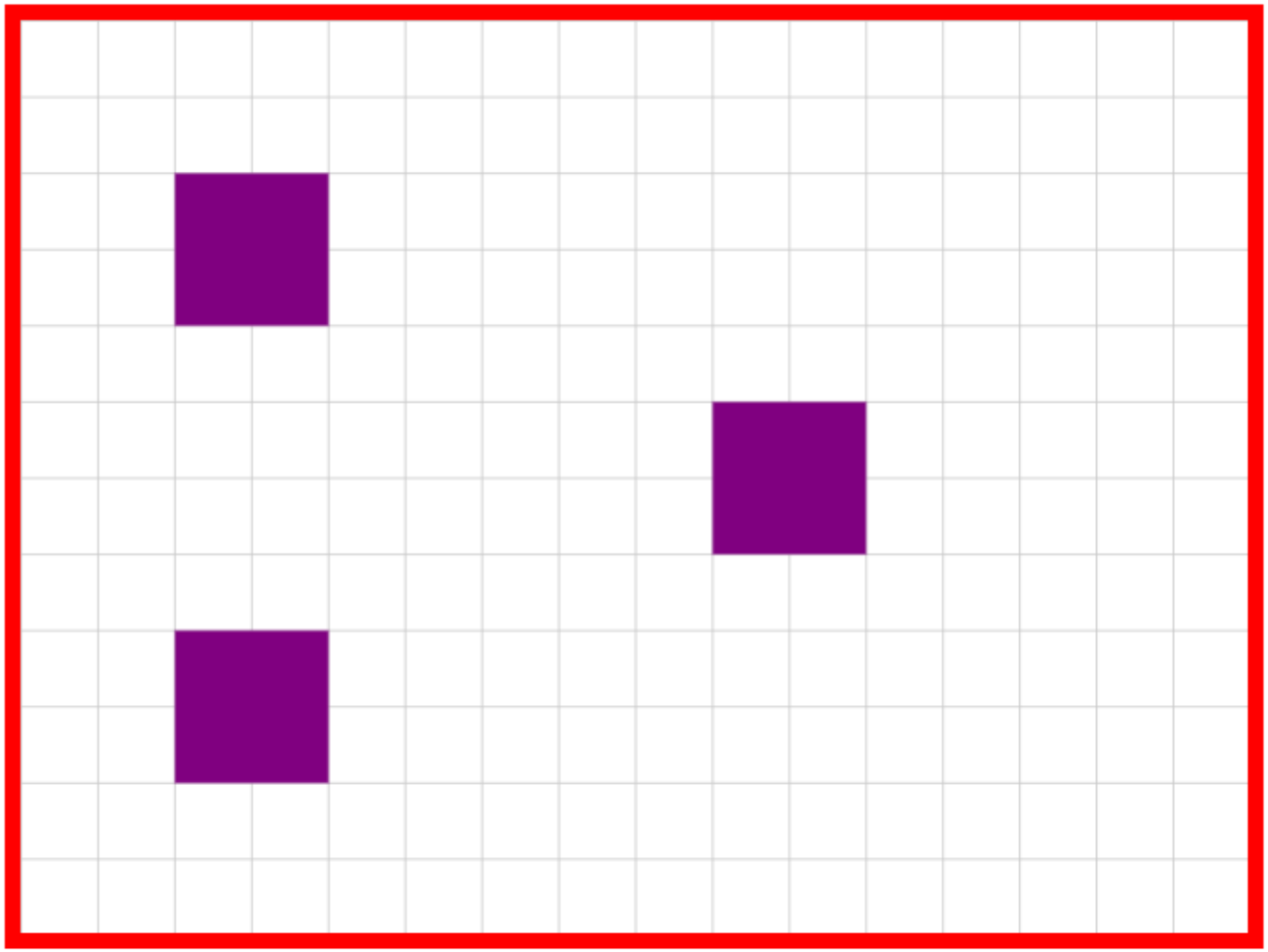
VON DEUTSCHKLUB

NOFUD

localhost:3003

No More COFUD

Negotiating



Add Movable Object | Add Fixed Object | Add Fixed Person | Erase | Reset

How many people need to fit in here? 6 Calculate NOFUD

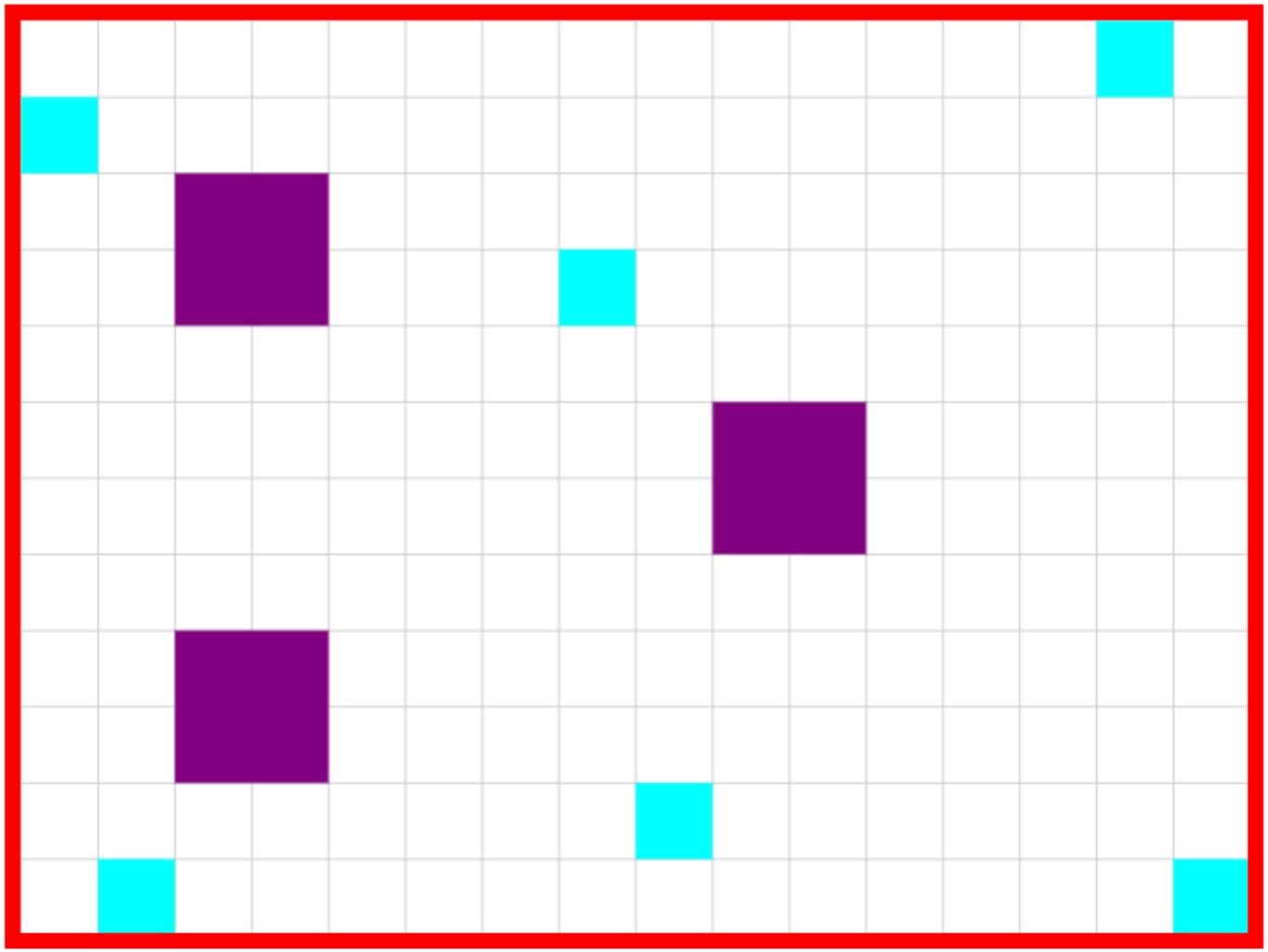
Preamble: "What is this?"

NOFUD

localhost:3003

No More COFUD

Success!



Add Movable Object | Add Fixed Object | Add Fixed Person | Erase | Reset

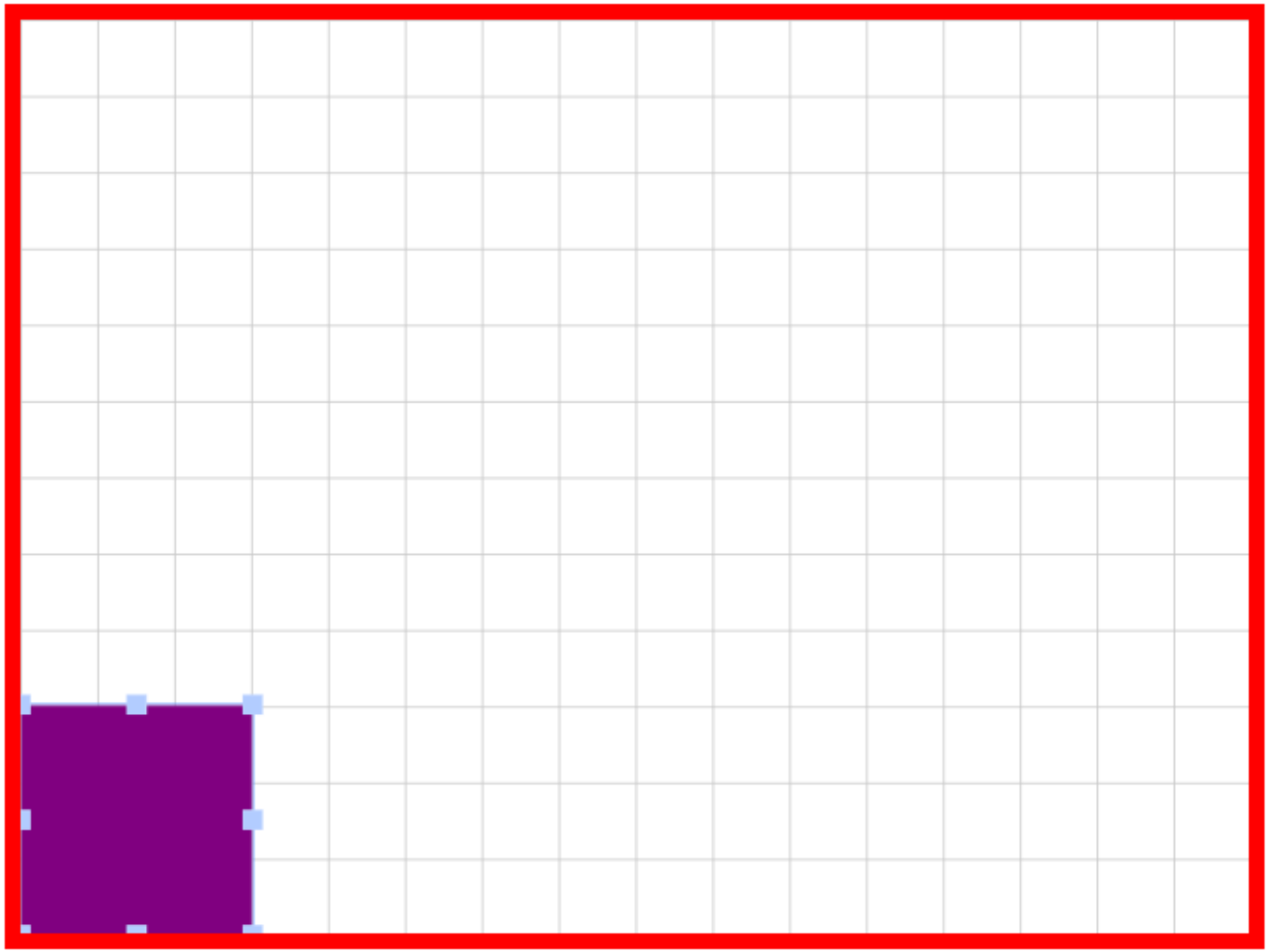
How many people need to fit in here? 6 Calculate NOFUD

Preamble: "What is this?"

NOFUD

localhost:3003

No More COFUD



Add Movable Object | Add Fixed Object | Add Fixed Person | Erase | Reset

How many people need to fit in here? 6 Calculate NOFUD

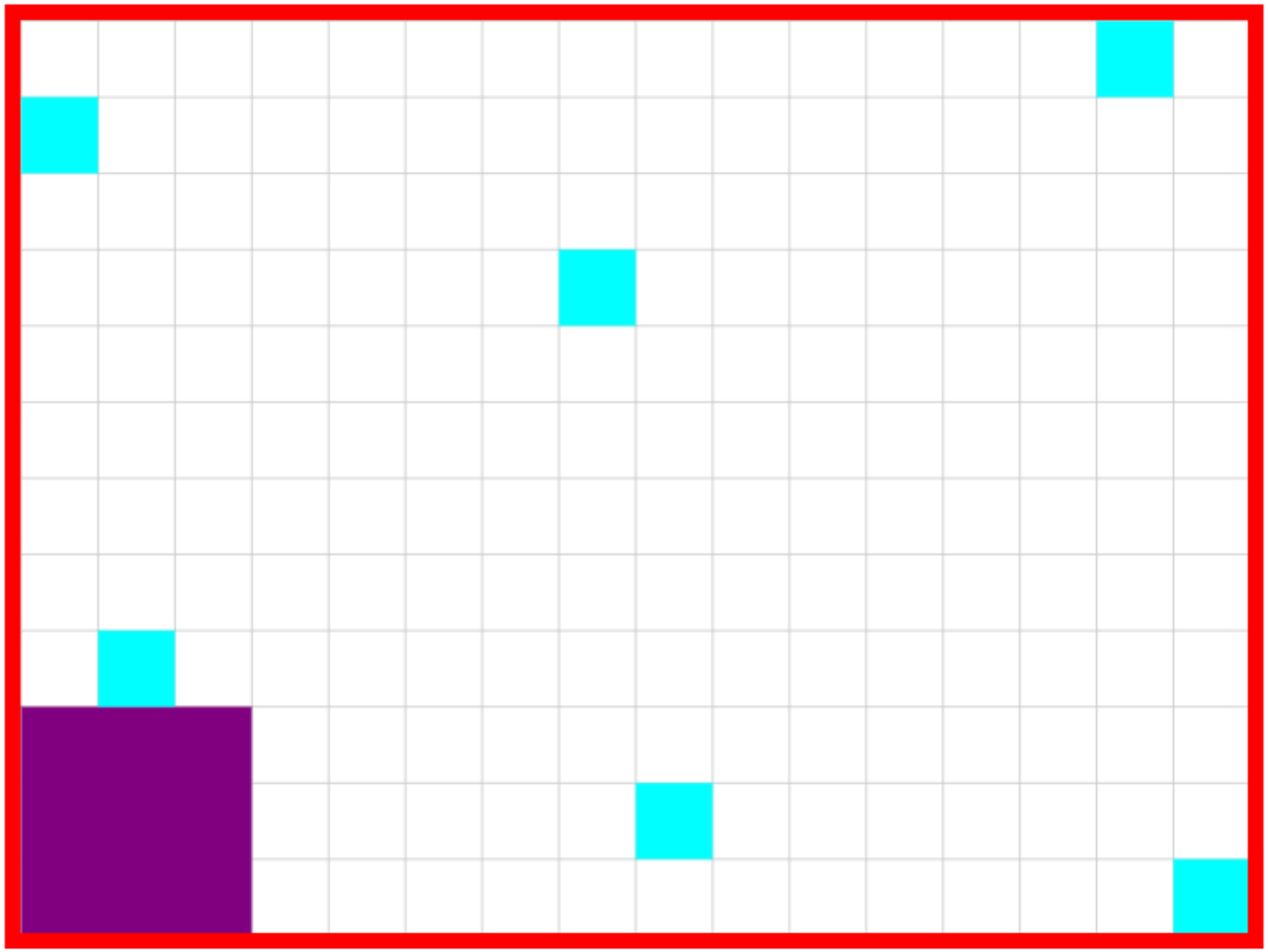
Preamble: "What is this?"

NOFUD

localhost:3003

No More COFUD

Success!



Add Movable Object | Add Fixed Object | Add Fixed Person | Erase | Reset

How many people need to fit in here? 6 Calculate NOFUD

Preamble: "What is this?"

Summary

- No More COFUD uses constraint programming powered by the golem network to suggest optimized floor plan layouts - whether it is a restaurant or an office building
- Users may add items to the layout:
  - Movable Furniture
  - Fixed Objects
  - Fixed People
- The solution is shown in the web application
- The back-end script (worker.ts) can also be used to solve for a larger set of data

How It Works

- The user defines movable furniture, fixed objects, fixed people, and the number of movable people
- Each grid location represents 1 foot; so 3 squares is roughly 1 meter
- When ready, the user clicks “Calculate NOFUD” to send the job for processing
- The user can see the progress of the job from Negotiation to Complete
- The user can view the suggested layout in the web application, or as a text file from the back end script

Potential Features

- Allow furniture to be multiple rectangles joined together
- Support for larger data sets in the web application
- Allow items to be rotated to fit
- Allow requiring people to be close to furniture, like desks or tables
- Support automatically finding the maximum number of people that can fit in the space

Team & Links

- Mike Cross
  - Front-end
- Derek Jarvis
  - Back-end

https://github.com/DEUTSCHKLUB/no-more-cofud

https://cofud.dcompute.xyz