

Optimisation Game Instructions

<https://github.com/ExtropyIO/ExpertSolidityJuly>

1. Open a terminal go to the Gas directory
2. Run `npm i` to install the dependencies
3. Run `npm run test` to run the tests and get a gas usage report

The aim of the game is to reduce the Average figures for contract deployment and addToWhitelist, transfer, updatePayment and whiteTransfer functions as much as possible.

Solc version: 0.8.0		Optimizer enabled: false		Runs: 200	Block limit: 30000000 gas	
Methods						
Contract	Method	Min	Max	Avg	# calls	gas (avg)
GasContract	addToWhitelist	82744	86542	84894	2400	-
GasContract	transfer	169276	220600	194940	20	-
GasContract	updatePayment	-	-	212354	2	-
GasContract	whiteTransfer	-	-	123301	6	-
Deployments					% of limit	
GasContract		-	-	4653697	15.5 %	-
9 passing (48s)						

You can change the contract as much as you like.

You **cannot** * change the tests, and all the tests must pass.

* you can slightly adjust tests for whitelist functions if you need so.

In order to generate storage diagram run the following command:

```
sol2uml storage ./contracts/ -c GasContract -o gasStorage.svg
```