Background Assignment

Github Link: https://github.com/joellje/zku.ONE
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Figure 1: HelloWorld.sol and deployment

After Optimization

```
| value | cost |
```

Figure 2: 10 Addresses using 1 Transaction (new version)

Transaction Cost: 279263 gas Execution Cost: 279263 gas

Figure 3: 1 Address using 1 Transaction (old version)

Transaction Cost: 48657 gas Execution Cost: 48657 gas

The Transaction Cost is the same for each transaction. Total Transaction Cost for giving 10 voters the right to vote by calling the "giveRightToVote" function 10 times would be 486570 gas. This is almost double the 279263 gas required with the improved script.