RPS

Github

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How to play

- 1. Click on addPlayer to register and pay PRICE to contract
- 2. Think about choice and salt then call <code>getChoiceHash</code> push the choice and salt as arguments to function. It will return the bytes hash for next step.
- 3. Transact input with your hash and your idx that you got from first step.
- 4. Waiting another player commit the hash
- 5. Reveal your hash, transact revealRequest push your salt, choices and idx as arguments to function.
- 6. Waiting your income ^_^

Security

Front Runner

Fixed with the Commit-Reveal strategy by player must hash his/her choice with salt then commit his/her hash to contract another player can't know about choice that player selected. When two players have selected completely, Two players will reveal his choice and compare their choices.

Timeout

No another player join the contract

In addPlayer contract give 5 minutes to waiting another player join but if no player join to contract, player can refund his/her money from the contract to his/her pocket.

Player decision for long time

Contract gives you 5 minutes for decision your choice and commit the hash if another player doesn't commit the hash player can refund money and take another player's money to his/her pocket.

Player not revealed for long time

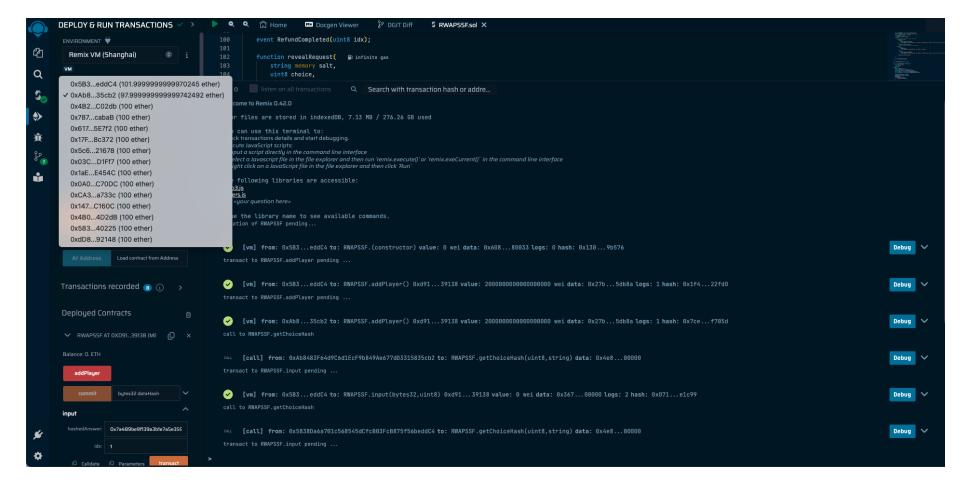
Contract gives you 3 minutes from last player committing for reveal your choice if another player doesn't reveal the choice player can refund money and take another player's money to his/her pocket.

Modified Code

- Change uint256 to uint8 for numPlayer, numInput
- Add numReveal for counting reveal players
- Add Error Message
- Add event for function

Example

Win and Lose



Deal

