

# The Lottery Smart Contract - Planning and Design

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## Lottery algorithm:

1. The lottery starts by accepting ETH transactions. **Anyone** having an Ethereum wallet can send a fixed amount of 0.1 ETH to the contract's address.
2. The players send ETH **directly to the contract address** and their Ethereum address is registered. A user can send more transactions having more chances to win.
3. There is a **manager, the account that deploys and controls the contract**.
4. At some point, if there are at least 3 players, he can pick a random winner from the players list. Only the manager is allowed to see the contract balance and to randomly select the winner.
5. The contract **will transfer the entire balance to the winner's address** and the **lottery is reset** and ready for the next round.