

miner_btc_address = 1GmShbbxQMG7v7RMJwriAGvCxJTpXim4fb

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miner_btc_address = [1GmShbbxQMG7v7RMJwriAGvCxJTpXim4fb](#)

Coinbase transactionOutput:

3.525 BTC

+3.525 BTC (pending)+3.525 BTC (spendable)

coinbase maturity = 100 blocks

import hashlib

import time

import json

```
def sha256(data: str) -> str:
```

```
    return hashlib.sha256(data.encode()).hexdigest()
```

```
def double_sha256(data: str) -> str:
```

```
    return sha256(sha256(data))
```

```
transactions = [
```

```
    &quot;from&quot;: &quot;alice_address&quot;,,
```

```
    &quot;to&quot;: &quot;bob_address&quot;,,
```

```
    &quot;amount&quot;: 0.01,
```

"fee": 0.0001

,

"from": "john_address",,

"to": "kate_address",,

"amount": 0.2,

"fee": 0.0003

]

total_fees = sum(tx["fee"] for tx in transactions)

block_reward = 3.125

miner_address = "1GmShbbxQMG7v7RMJwriAGvCxJTpXim4fb"

coinbase_tx =

"from": "COINBASE",,

"to": miner_address,

"amount": block_reward + total_fees

block_transactions = [coinbase_tx] + transactions

nonce = 1

while True:

 block_header =

 "previous_block_hash": previous_block_hash,

 "merkle_root": merkle_root,

 "timestamp": int(time.time()),

 "difficulty": difficulty_prefix,

 "nonce": nonce

 block_header_string = json.dumps(block_header, sort_keys=True)

 block_hash = double_sha256(block_header_string)

 if block_hash.startswith(difficulty_prefix):

 print("[] []")

 print("Hash:", block_hash)

 print("Nonce:", nonce)

 print("[] []", coinbase_tx["amount":], "BTC")

 print("1GmShbbxQMG7v7RMJwriAGvCxJTpXim4fb", miner_address)

 break

 nonce += 1

coinbase_tx =

 "from": "COINBASE">,

 "to": miner_address,

```
&quot;amount&quot;; block_reward + total_fees
```

```
if block_hash.startswith(difficulty_prefix):
```

```
print(&quot;[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]&quot;)
```

```
coinbase_tx =
```

```
&quot;from&quot;; &quot;COINBASE&quot;;
```

```
&quot;to&quot;; 1GmShbbxQMG7v7RMJwriAGvCxJTpXim4fb,
```

```
&quot;amount&quot;; block_reward + total_fees
```

```
block_reward = 3.125
```

```
total_fees = 0.4
```

```
coinbase_tx =
```

```
&quot;from&quot;; &quot;COINBASE&quot;;
```

```
&quot;to&quot;; &quot;miner_btc_address&quot;;
```

```
&quot;amount&quot;; block_reward + total_fees
```

```
print(coinbase_tx[&quot;amount&quot;]) # 3.525
```

```
3.125 BTC block subsidy
```

```
+0.400 BTC transaction fees
```

```
=3.525 BTC total coinbase output
```

```
=====
```