

```
In [5]: import math
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

```
In [6]: result = pd.read_csv("kovanEth.csv")
result.shape
```

```
Out[6]: (1457, 10)
```

```
In [12]: kk = result[["block_confirmations", "timestamp"]]
kk.head(10)
```

```
Out[12]:
```

	block_confirmations	timestamp
0	51 Block Confirmations	5 mins ago (Jun-10-2022 05:40:56 AM +UTC)
1	44 Block Confirmations	4 mins ago (Jun-10-2022 05:43:12 AM +UTC)
2	49 Block Confirmations	5 mins ago (Jun-10-2022 05:40:24 AM +UTC)
3	47 Block Confirmations	4 mins ago (Jun-10-2022 05:42:24 AM +UTC)
4	47 Block Confirmations	4 mins ago (Jun-10-2022 05:39:56 AM +UTC)
5	50 Block Confirmations	5 mins ago (Jun-10-2022 05:40:16 AM +UTC)
6	43 Block Confirmations	4 mins ago (Jun-10-2022 05:43:40 AM +UTC)
7	50 Block Confirmations	5 mins ago (Jun-10-2022 05:42:00 AM +UTC)
8	48 Block Confirmations	5 mins ago (Jun-10-2022 05:40:32 AM +UTC)
9	49 Block Confirmations	4 mins ago (Jun-10-2022 05:42:08 AM +UTC)

```
In [7]: def solve(k):
i=0
r=""
while k[i]!=" ":
r+=k[i]
i+=1
return int(r)
```

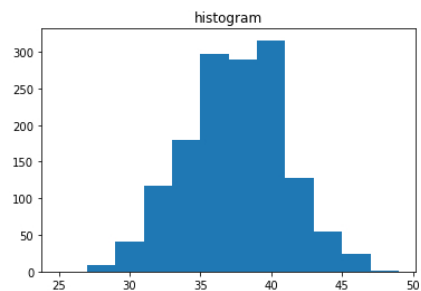
```
In [8]: arr = []
for i in range(result.shape[0]):
d = solve(result['block_confirmations'].iloc[i])
t = solve(result['timestamp'].iloc[i]) * 60
arr.append( 7 * t / d )
```

```
In [9]: df = pd.DataFrame(arr)
df.describe()
```

```
Out[9]:
```

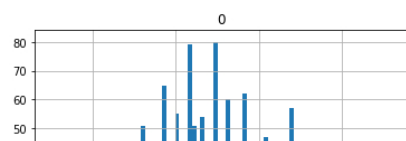
	0
count	1457.000000
mean	37.414094
std	3.531674
min	27.540984
25%	35.000000
50%	37.333333
75%	40.000000
max	48.000000

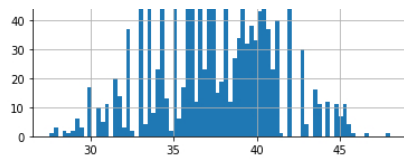
```
In [10]: plt.hist(arr, bins = [25,27,29,31,33,35,37,39,41,43,45,47,49])
plt.title("histogram")
plt.show()
```



```
In [13]: df.hist(bins=80)
```

```
Out[13]: array([[<AxesSubplot:title={'center':'0'}>]], dtype=object)
```





```
In [14]: df.describe()
```

```
Out[14]:
```

	0
count	1457.000000
mean	37.414094
std	3.531674
min	27.540984
25%	35.000000
50%	37.333333
75%	40.000000
max	48.000000

```
In [15]: df.mean()
```

```
Out[15]: 0    37.414094
dtype: float64
```

```
In [ ]:
```