

Tableau 1, Part 2

Prelude to a theory of chance

The amazing aspects of fluctuations and the hot hand phenomenon

The tosses of a coin

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- ✿ Flip a coin repeatedly fifty times and write down the observed sequence of outcomes (to keep your sequence easy to parse, write 1 for heads and 0 for tails).

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Examine your two sequences. Can you tell whether they appear to have different characteristics?

Two sequences

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```
1 1 1 0 0 0 1 1 1 1 1 1 1 0 0 0 0 0 1 0 1 1 0 1 1
1 0 1 1 1 0 1 0 1 1 1 0 0 1 1 1 0 0 0 0 0 0 1 0 0
1 0 0 1 0 1 0 0 1 0 0 1 0 1 1 0 1 1 0 0 0 1 0 1 0
0 0 1 0 1 1 0 0 0 1 1 0 1 0 0 0 1 1 0 1 0 0 0 1 1
```

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```
1 1 1 0 0 1 0 1 0 0 1 0 1 0 1 0 0 0 1 0 1 0 1 1 1
0 1 0 0 0 1 0 0 1 1 1 0 1 1 1 0 0 0 1 0 1 0 1 0 0
0 1 0 0 0 1 0 1 1 1 0 1 0 1 0 0 0 1 0 1 0 0 1 0 0
0 0 1 1 1 0 1 0 1 0 0 0 1 0 0 0 1 0 1 1 1 1 0 1 0
```


A visualisation

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```
1 1 1 0 0 0 1 1 1 1 1 1 1 0 0 0 0 0 1 0 1 1 0 1 1
1 0 1 1 1 0 1 0 1 1 1 0 0 1 1 1 0 0 0 0 0 0 1 0 0
1 0 0 1 0 1 0 0 1 0 0 1 0 1 1 0 1 1 0 0 0 1 0 1 0
0 0 1 0 1 1 0 0 0 1 1 0 1 0 0 0 1 1 0 1 0 0 0 1 1
```

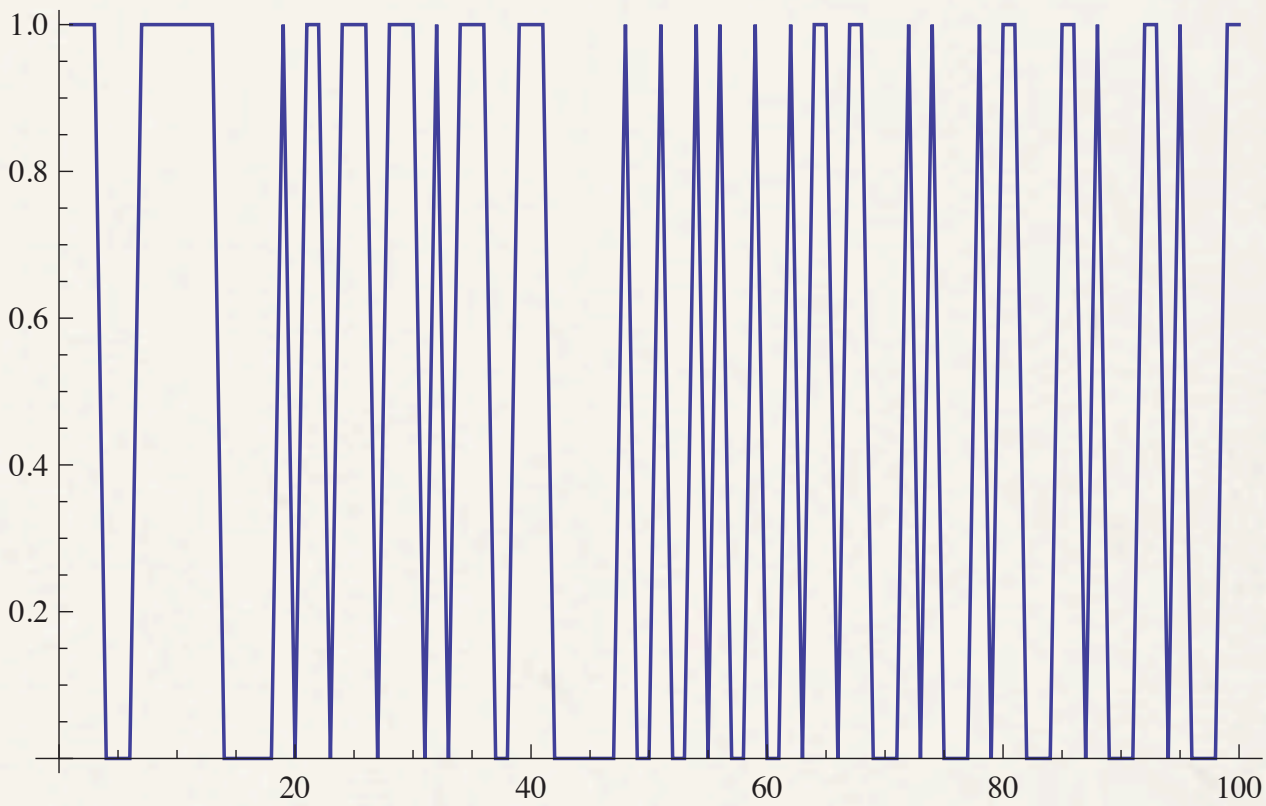
★★

```
1 1 1 0 0 1 0 1 0 0 1 0 1 0 1 0 0 0 1 0 1 0 1 1 1
0 1 0 0 0 1 0 0 1 1 1 0 1 1 1 0 0 0 1 0 1 0 1 0 0
0 1 0 0 0 1 0 1 1 1 0 1 0 1 0 0 0 1 0 1 0 0 1 0 0
0 0 1 1 1 0 1 0 1 0 0 0 1 0 0 0 1 0 1 1 1 1 0 1 0
```


A visualisation

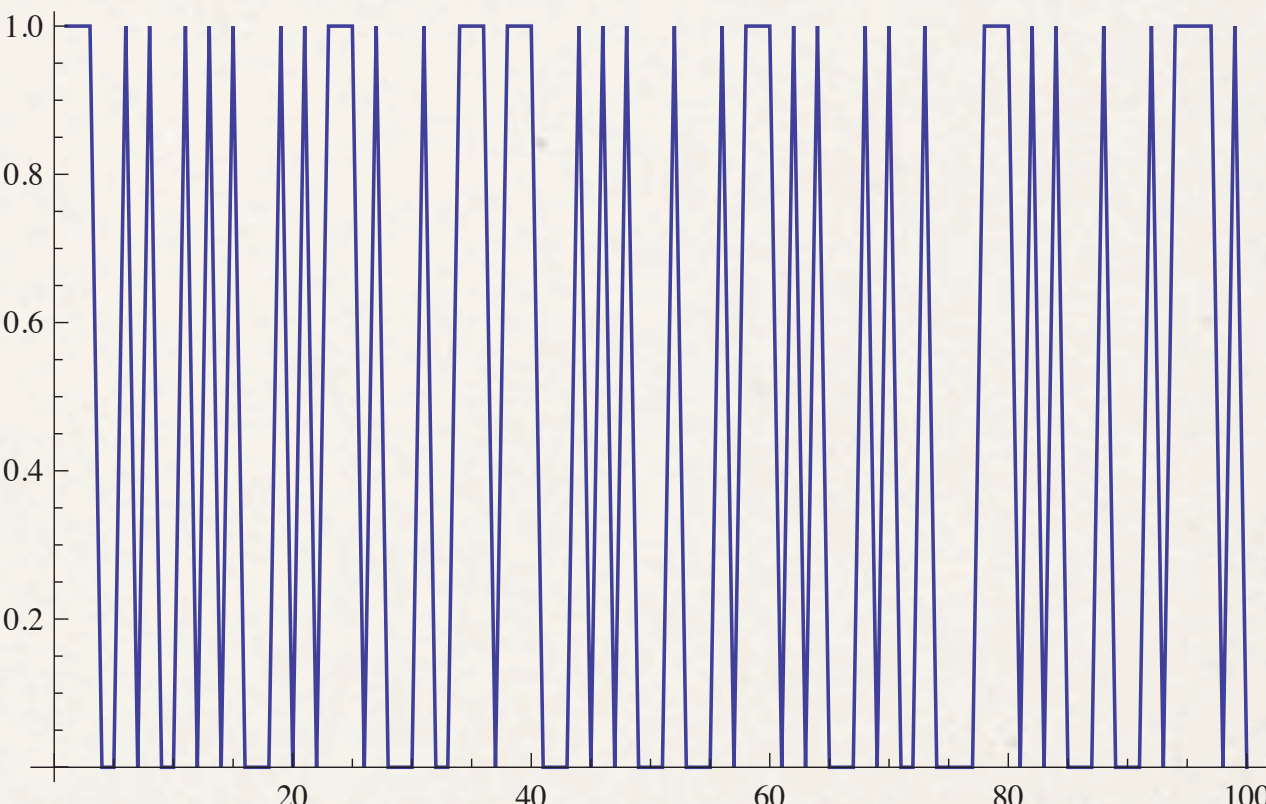
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1 1 1 0 0 0 1 1 1 1 1 1 1 0 0 0 0 0 1 0 1 1 0 1 1
1 0 1 1 1 0 1 0 1 1 1 0 0 1 1 1 0 0 0 0 0 0 1 0 0
1 0 0 1 0 1 0 0 1 0 0 1 0 1 1 0 1 1 0 0 0 1 0 1 0
0 0 1 0 1 1 0 0 0 1 1 0 1 0 0 0 1 1 0 1 0 0 0 1 1



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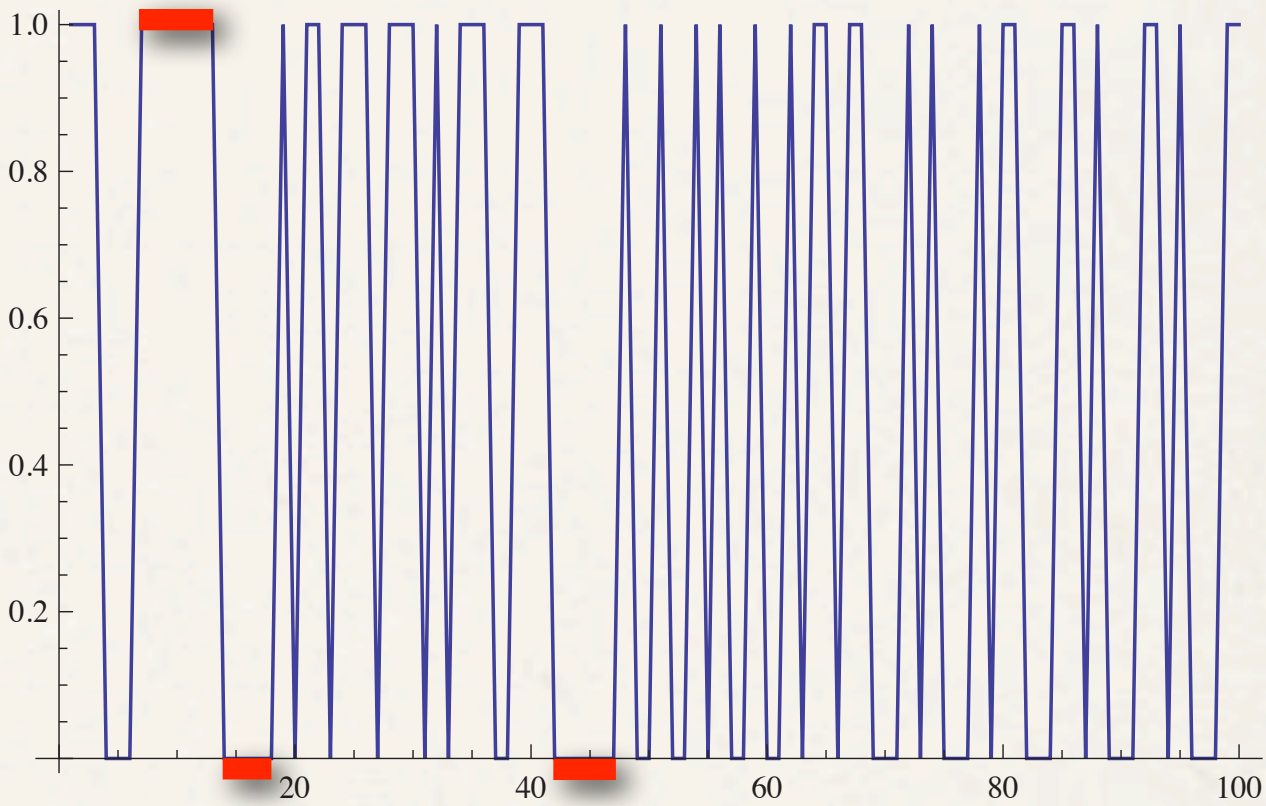
1 1 1 0 0 1 0 1 0 0 1 0 1 0 1 0 0 0 1 0 1 0 1 1 1
0 1 0 0 0 1 0 0 1 1 1 0 1 1 1 0 0 0 1 0 1 0 1 0 0
0 1 0 0 0 1 0 1 1 1 0 1 0 1 0 0 0 1 0 1 0 0 1 0 0
0 0 1 1 1 0 1 0 1 0 0 0 1 0 0 0 1 0 1 1 1 1 0 1 0



A visualisation

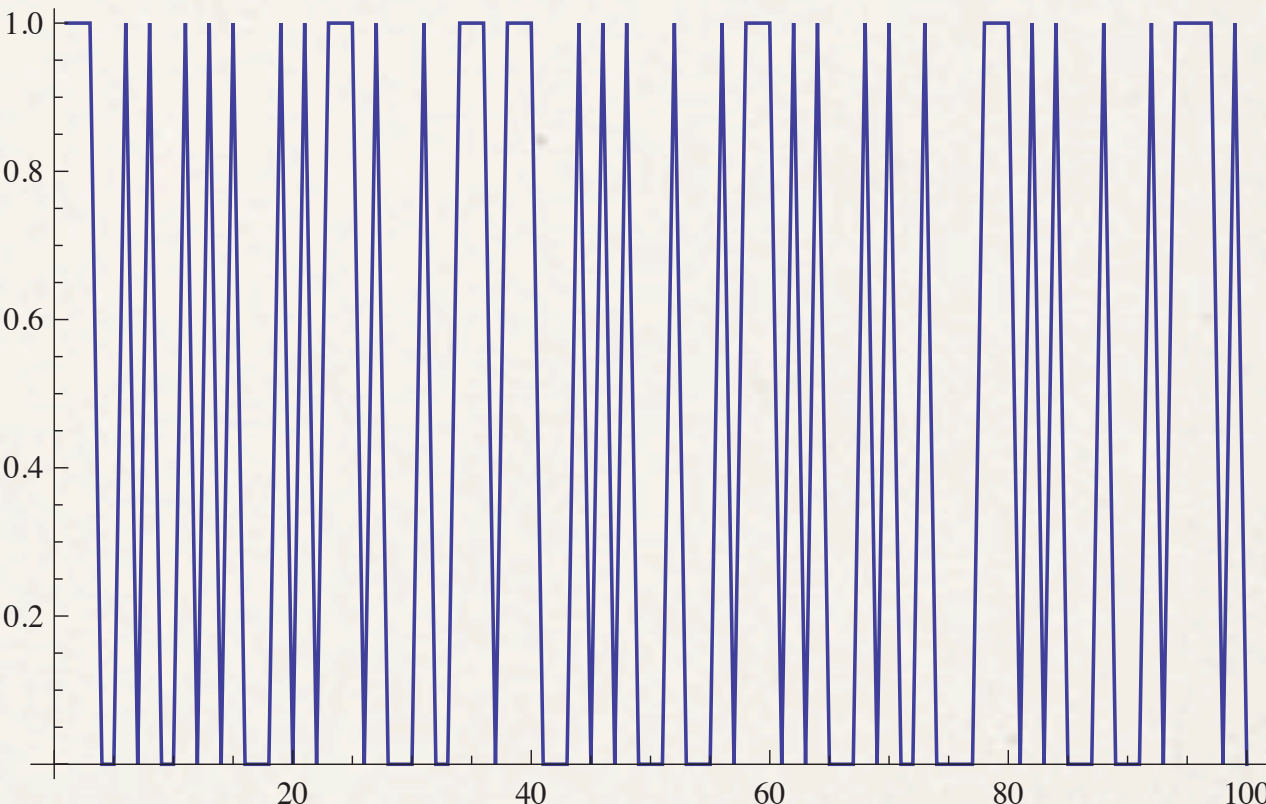
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1 1 1 0 0 0 1 1 1 1 1 1 1 0 0 0 0 0 1 0 1 1 0 1 1
1 0 1 1 1 0 1 0 1 1 1 0 0 1 1 1 0 0 0 0 0 0 1 0 0
1 0 0 1 0 1 0 0 1 0 0 1 0 1 1 0 1 1 0 0 0 1 0 1 0
0 0 1 0 1 1 0 0 0 1 1 0 1 0 0 0 1 1 0 1 0 0 0 1 1



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1 1 1 0 0 1 0 1 0 0 1 0 1 0 1 0 0 0 1 0 1 0 1 1 1
0 1 0 0 0 1 0 0 1 1 1 0 1 1 1 0 0 0 1 0 1 0 1 0 0
0 1 0 0 0 1 0 1 1 1 0 1 0 1 0 0 0 1 0 1 0 0 1 0 0
0 0 1 1 1 0 1 0 1 0 0 0 1 0 0 0 1 0 1 1 1 1 0 1 0



A visualisation

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1 1 1 0 0 0 1 1 1 1 1 1 0 0 0 0 0 1 0 1 1 0 1 1
1 0 1 1 1 0 1 0 1 1 1 0 0 1 1 1 0 0 0 0 0 0 1 0 0
1 0 0 1 0 1 0 0 1 0 0 1 0 1 1 0 1 1 0 0 0 1 0 1 0
0 0 1 0 1 1 0 0 0 1 1 0 1 0 0 0 1 1 0 1 0 0 0 1 1

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1 1 1 0 0 1 0 1 0 0 1 0 1 0 1 0 0 0 1 0 1 0 1 1 1
0 1 0 0 0 1 0 0 1 1 1 0 1 1 1 0 0 0 1 0 1 0 1 0 0
0 1 0 0 0 1 0 1 1 1 0 1 0 1 0 0 0 1 0 1 0 0 1 0 0
0 0 1 1 1 0 1 0 1 0 0 0 1 0 0 0 1 0 1 1 1 1 0 1 0

