



5197)	$P(1 \text{ accessor}) = P(4)P_{+} : (.6)(.6) \cdot .36$ $P(2 \text{ accessor}) : -P(2 \text{ terrs}) - P - (.2)(.3)P(14)$ $P(3 \text{ accessor}) = P(2)(.9) = 1 \cdot (.9)(3)(176)$	
178 — 5 SQUARES 178 — 5 SQUARES 178 — 5 SQUARES 178 — FILLER	P. = (8/6) = [36] P2 = 9 - (1-20)(1-30) (1-30) (1-(1-0)(1-6-1) = [-96]6 P3 = P2 (2) = [-206] = [-865-44]	
0-0205 — E0 SHEET8 - 8-0205 — TO SHEETS - 0-0207 — 200 SHEETS - 3-0-137 — 200 SHEETS		I
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MATLAB Code:

clear all, close all; load sequence1.mat; %I ran this for each sequence 1-5 N = length(test_sequence);

```
count1 = sum(1==conv(1 * [1], test_sequence));
       count2 = sum(1==conv(1/2 * [1 1], test_sequence));
       count3 = sum(1==conv(1/3 * [1 1 1], test_sequence));
       count4 = sum(1==conv(1/4 * [1 1 1 1], test_sequence));
       count5 = sum(1==conv(1/5 * [1 1 1 1 1], test_sequence));
       p1 = count1/N
       p2 = count2/N
       p3 = count3/N
       p4 = count4/N
       p5 = count5/N
Considering the actual probability (pi) of i heads in a row are:
       p1 = .5 p2 = .25 p3 = .125 p4 = .0625 p4 = .03125 p5 = .015625
The results of the sequences are:
       Sequence 1:
       p1 = 0.5003 p2 = 0.2505 p3 = 0.1255 p4 = 0.0629 p5 = 0.0315
       Sequence 2:
       p1 = 0.5000 p2 = 0 p3 = 0 p4 = 0 p5 = 0
       Sequence 3:
       p1 = 0.5002 p2 = 0.2916 p3 = 0.1040 p4 = 0.0102 p5 = 0.0052
       Sequence 4:
       p1 = 0.5000 p2 = 0.4286 p3 = 0.3571 p4 = 0.2857 p5 = 0.2143
       Sequence 5:
        p1 = 0.5013 p2 = 0.2521 p3 = 0.1265 p4 = 0.0634 p5 = 0.0322
Sequences 2, 3, and 4 are fraudulent;
```