\$15/2020 Pt · 7 coppers (i), 3 estatos (e) Start: 12:10 AM STAY THE PM (C · Want to start money lender (m) and silver(s) Turn 1/2 Possible hands 4c, le 1 5c,0e Notes: # of L turn 2 3 C, 2e 12c,3e1 2c,3e 3 L, Ze 40, le 5 6,0e 7- # of cturn 1 yes yes yes yes 1c, 4e is Not possible becaux there are only 3 estates yes yes no 5 NO 1 (3)(3) (ま)しる) (3)(3) (ま)(る) # of e = 5-# of c (18) (%) (16) (18) End: 12:34 0.095 0.416 0.416 0.093 51512020 Rt possible turn 3/2 p. 1 100 Start: 4:20 A/M Probability of turn 3 out cources given (2)(3)/(3) turn 1/2 A. 20, 3e - 2 coins 1.2-5 split/5-2 split (4)(3)(1)/(5) B. Im, Ic, 3e - 3 coins deck: 7c,3e, Im (3)(3)/(4) c. 36,2e - 3 coins 0. Im, 2c, 2e-4 wins (3)(2)(1)/(5) P= 0.16 (2)(3)/(5) E. 4c, le - 4 wins F. Im, 3c, le-saim (3)(3)(1)(12) しま)/しゃう G. 5c, 0e - 5 wins H. Im, 40,00-6 coins (7)(1)(1) A. 2c, 3e-200ins (3)(3)/(52) 2.3-4 split/4-3 split B. Im, 1c, 3e-3 coin (7)(3)(1)/(2) L. Im, 1s, 3e-2coins (1) (1) (3) / (2) deck: 7c, 3e, lm, 1s D. 1 C, 15, 30-3 coins (7) (1) (3) ((2) P=0.83 E. 3 c, 2e-3 coins (3)(3)/(3) F. Im, 20, 2e-4 wirs (3)(3)(1)/(5) 6. 15, 2c, 2e-4 wins (3)(3)(1)/(13) H. Im, 15, 16, 20-5win (7)(3)(1)(1)(12) I. 4 c, le-4ains (2)(3)/(12) J. Im, 3c, le-swin (3)(1)(3)/(5) 4. 15, 3c, le-sains (3)(1)(3)/(5) L. Im, Is, 2c, 1e-6 wins (3)(1)(1)(1)/(15) M. sc, De-suins (2)(3)/(2) N. Im, 40, 0e - 6 wins (2)(1)(3)(2) 0. 15, 46, 0e - 6 coins (3)(1)(3)/(12) P. Im, 15, 30, 00 - 76ins (3)(1)(1)(3)/(5)

2 coins (1.A, 2.A) turn 3
$$P = 0.16 \times \frac{(\frac{3}{2})(\frac{1}{2})}{(\frac{1}{2})} + 0.53 \times \frac{(\frac{3}{2})(\frac{3}{2})}{(\frac{1}{2})} + 0.53 \times \frac{(\frac{3}{2})(\frac{3}{2})}{(\frac{3}{2})} = 0.03071$$
3 coins (1.B, 1.C, 2.B, 2.O, 2.E)
$$P = 0.16 \times (\frac{(\frac{3}{2})(\frac{3}{2})}{(\frac{1}{2})}) + 0.83 (\frac{(\frac{3}{2})(\frac{3}{2})}{(\frac{3}{2})} + \frac{(\frac{3}{2})(\frac{3}{2})}{(\frac{3}{2})} + \frac{(\frac{3}{2})(\frac{3}{2})}{(\frac{3}{2})} = 0.1656$$
4 coins (1.F, 1.G, 2.H, 2.J)
$$P = 0.16 \times (\frac{(\frac{3}{2})(\frac{3}{2})}{(\frac{3}{2})}) + 0.83 (\frac{(\frac{3}{2})(\frac{3}{2})}{(\frac{3}{2})} + \frac{(\frac{3}{2})(\frac{3}{2})}{(\frac{3}{2})} + \frac{(\frac{3}{2})(\frac{3}{2$$

2.A, 2.8, 2.6, 2.0, 2.F, 2.6, 2.4, 2.L 2.A, 2.0, 2.E, 2.6, 2.K 2.A, 2.6, 2.E, 2.F, 2.T

2.A, 2.E, 2.T

2.E, 2.6, 2. I, 2.6,2.0

2.E,2.F, 2.I, 2.T, 2.N

2.F, 2.G, 2.H, 2.3, 2.K, 2.L, 2.P

Turn 3 -> Turn 4 2A + 2M - 5 wins

lurge 37 tunn 4

 $P = 0.85 \frac{(\frac{2}{5})}{(\frac{12}{5})} \frac{1}{(\frac{2}{5})} = 0.00 10522$ 2M+28 -20+2J-5 p=0.87  $\frac{(7)}{(12)}$   $\frac{(3)}{(7)}$  =0.005261 $P=0.83\frac{(2)}{(2)}\frac{(3)}{(2)}=\frac{0.0021044}{0.003156}$ 2M=21-2  $P=0.4\overline{3} \frac{(3)}{(12)} \frac{(4)}{(2)} = 0.010522$ P=0.83 (3) 1 = 0.0010522 2M +20 -3  $P=0.83\frac{(3)}{(12)}\frac{(3)}{(3)}=20.002104412P \Rightarrow 2E^{-3}$  $\rho = 0.8\overline{3} \frac{(3)}{(12)} \frac{(3)(3)}{(32)} = \frac{0.005261}{0.021044}$ 2M > 2F -4  $P = 0.8\overline{3} \frac{(\frac{7}{4})}{(\frac{1}{4})} \frac{(\frac{1}{3})}{(\frac{7}{3})} = 0.00315\overline{b} \quad \lambda P \to 2\overline{1} \frac{(\frac{7}{3})}{(\frac{1}{3})} \frac{(\frac{7}{3})}{(\frac{7}{3})} = 0.005261$ 2M oup 26 - 4  $P=0.83 \frac{(3)}{(13)} \frac{(3)}{(3)} = 0.003156$ 2 coins 0.00126+0.00631+0003136+0.0016522+0.0016522+0001522  $P = 0.83 \frac{H_{2}^{-1}}{(\frac{1}{2})} \frac{(\frac{2}{2})(\frac{3}{2})}{(\frac{7}{2})} = 0.00631$ tab.00175 + 0.0019536 + 0.010522 +0.006261 40.005261 =0.03072 $2M \rightarrow 2L - 6$   $P = 0.83 \frac{(3)}{(2)} \frac{(3)}{(3)} = 0.003156$ 3 coins 0.00631+0.025+0.0025 +0.00631 +0.005261 to.021044 to.021044 + 0.03156 +0.0021004  $2N \Rightarrow 2A - \lambda$   $P = 0.83 \frac{(\frac{2}{4})}{(\frac{12}{5})} \frac{(\frac{3}{4})}{(\frac{7}{5})} = \frac{0.00175}{0.005261}$ + 0.0021044 +0.0035073+0.005261 +0.0072072-+0.005261+0.00F2C-1 (COO)1 t0.003(86 + 0.005261 +0.005261 2N=20-+0.021044 p = 0.83  $\frac{(\frac{7}{4})}{(\frac{1}{4})} = \frac{0.0035073}{0.005261}$ =0.16674 coins  $\lambda N \rightarrow \lambda E - \frac{3}{(\frac{2}{5})} \frac{(\frac{3}{2})}{(\frac{7}{5})} = 0.005261$ 0.00631 +0.01893 + 0.01793 + 0.0126 +0.00378 40.005261 40.018 40.0158 + 0.0158 + 0.0158 40.0158 40.03156 + 0.010522+ 0.03156  $2N \rightarrow 26 - 4$   $P = 0.83 \frac{(2)}{(2)} \frac{(3)(3)}{(2)} = 0.015782$ 40.010522 40.03156 +0.003156 +0.003156 to-0158 + 0.0158 to.005761 = 0.30382N = 2K = 5  $P = 0.83 \frac{(2)}{(3)} \frac{(3)}{(3)} = 0.005261$ 5 coins 0.00126+0.0025+0.025+0.00378,0.0126 40.0010522+0.0021044 +0.0010520  $20 + 24 - \frac{2}{(\frac{7}{4})} = \frac{(\frac{5}{4})}{(\frac{7}{4})} = \frac{0.0077536}{0.00526}$ + 0.002 1044 to. 021044 + 0-021044 + 0.03156 + 0.007156+ 0.03156+0.003156+0.00631 + 0.015782 + 0.010522 + 0.010522 +0.04209  $20 \rightarrow 28 \frac{-3}{(\frac{1}{6})} \frac{(\frac{3}{6})}{(\frac{3}{6})} = \frac{6.0035073}{0.005261}$ to.04209 to.007156 to.00677 + 0.005261 +0.005261 = 0.3106 6 wins  $20 \rightarrow 2E_{\frac{1}{2}}^{-3}$  (2) P=0.83 (2) (3) = 0.005261 0.00631+0.00631 +0.005261+0.005261+0.005261+0.005261+ 0.03156 + 0.005261 + 0.005261 + 0.0158 + 0.0158 + 0.03156 +0.0158 +0.0158 +0.007156 + +0.00526/10.00526/ = 0.1526 0.010522+0.02(044 +0.00526) = <del>0.03167</del> 0.03683

20+2F-4

 $\rho = 0.8\overline{3} \frac{(\frac{7}{4})}{(\frac{12}{3})} \frac{(\frac{3}{2})(\frac{3}{2})}{(\frac{3}{2})} = 0.015782$ 

2M + 2A - 2