Midterm Friday, September 9, 2022 7:35 PM		
1) Switch can be either open or chosel		
a) $PCS_1 = P$ $PCS_2 = P$ $PCS_3 = P$ $PCS_3 = P$		
PCanBnc): muje fate peinnese so 1-pcanBnc)		
P(t)=1-P(P(Si)NP(S2)NP(S3))		
Condition Poolshility S) PCS2-IPCS2) 2		
S) PCS2-IPCSZ) 2, PSi)		
2)	3)	2 (D) = TT f(Xi; D) max likilli ML
4) Xu = X For u=0.11 FLAD = U?		(Ca) - Los = {(Xi; 0) los likilii
		West IDIO
5) What hoes the guestion and flot is not question being asked just a statement.		
4) 5,10, 11 ,13, 15,35,50, 55,72,52,204,215		
a) $\frac{12}{4} = 3$		
Bin1: S,19,4,13 Bin2: 15,35,80,55 BM3: 72,92,201,215		
Bin 1 (5 75): S 1211 1315 31 52 50 72		
Bin 1 (5,75): S,10,11, 13,15, 35,50,55,72 Bin 2 (75,145): 92, Bin 3 (145, 215): 204, 215		
C) depth bin num 8 4 5,13 4 15,55 4 72,215		
D)mean of equal width partitioning bin mean bin num equal width partition		
9 5,75 1 75,145 2 145,215 4 2 0 5,75 75,145 145,215		
bin number		
S(3) imases S(3) imases S(3) imases S(3) imases		
A B C D E F G H I X Y 72 84 50 63 81 77 74 78 94 90 86 75		
59 49 83 79 65 77 33 52 88 74 81 90 m: 0.5816000774 b 32.02786108		
y= .58x+32		
17 11 7 11 7 11 7 12 12 12 12 12 12 12 12 12 12 12 12 12		
(a) $K_1 = \begin{bmatrix} 1 \\ 2 \\ 4 \end{bmatrix}$ $X_2 = \begin{bmatrix} 1 \\ 1 \\ 4 \end{bmatrix}$ $Y = \begin{bmatrix} 0 \\ 4 \\ 7 \end{bmatrix}$ $2X_1 = 7$ $4 = \begin{bmatrix} 1 \\ 2 \\ 4 \end{bmatrix} = \begin{bmatrix} 3 \\ 3 \\ 22.33 \end{bmatrix}$		
$2X_1 = 7$ $\frac{1}{3} = \frac{7}{3} = 2.33$ $2X_2 = 3$ $\frac{1}{3} = \frac{1}{3} = \frac{1}$		
$2X_{1}^{2}=1+4+16=21$ $2X_{1}^{2}=3$ $2X_{2}^{2}=3$ $2X_{2}^{2}=3$ $2X_{2}^{2}=3$ $2X_{2}^{2}=1$ $2X_{2}^{2}=3$ $2X_{2}^{2}=6$ $2X_{2}^{2}=6$ $2X_{2}^{2}=6$ $2X_{2}^{2}=6$ $2X_{2}^{2}=6$ $2X_{2}^{2}=6$ $2X_{2}^{2}=6$		
$\frac{12}{12}$ $\frac{1}{12}$		
$\beta = \frac{12.1 - (2.33)(3.66)}{7.1 - (2.33)(2.333)} = 2.2 (365)$		
$\beta_{2} = \frac{(3.69(7) - (2.33)(12)}{(366) \cdot 1 - (2.35)^{2}} = 1.32285$ $\beta_{2} = \frac{(3.69(7) - (2.33)(12)}{(366) \cdot 1 - (2.35)^{2}} = 1.32285$		
B=====================================		
$y = 2.21385 X_1 + 1.32285 X_2 + 14.5544$		
7) Coin: 13 tosset 10 fines => Simple Spines	6	
$S = \mathcal{E}$ Marsile cours of leade and fails) $P(X=i) = NCi$ must of J		
Heids. $P(X=0) = \frac{100}{1024} = \frac{1000}{1024} = \frac{1}{1024}$		
$P(X=1) = \frac{10c1}{1000} = \frac{10}{20}$ $P(X=2) = \frac{45}{1024}$ $V = 5 \cdot 10c = -120$ $V = 5 \cdot 10c = -120$		
X=9 10cm = 210 X=9 10cm = 210 X=5 10cs = 282 X-6 10 15 12 22		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
X = 60 $X = 60$ $X = 10$ $X = 10$ $X = 10$ 100 100 100 100 100 100 100 100 100		