Haseeb Raza	. NOTO Sum OTTOFF
Prob	and stat.
for TYPE 2 and	· Uses the bimonucal
HW6: Solution.	TYPE 2 ENTORS for
between to	. Decision bounday
1: Hypotheses	
, EEEE. 0 21	and by which
	of 1 is Po=0.5 (for coin)
.H .: This Prob c	of 1 is ly = 1/6 (for dice)
2: Test Statistic.	
an	
$\hat{p} = Z_{i=1}$	<:
n	
Xi is (0 ov 1)	, n no of observation.
3: Decision Rule.	
Accort H 'C	à is close to as
- Accept the it	p is close to 0.5. p is close to 1/8
· Accept the it	p 13 Close 16 78
Mathematically,	<del>, ~ , , </del>
	1 p - 16) we accept the
·4 [p-0.5]	- 1 p - 16) we accept the

Part	<b>b</b> .	Exxav	Probabilities.
1000	THE WAY	EBROV	nouncisco rees.

· Type I Error: Rejecting Howhen it is true.

· Type II Error: Failing to reject to When H1 is true.

The Prob of Type I error is a, as set a = 40.05 (5% significance level)

To calculate the Errors:

· Under Ho, p follows a binomial distribution with p=0.5.

· Under H1, p follows a binomial

distribution with p=1/6

TypeI Error.

 $\hat{p} \sim binmial(n, p=0.5)$ 

This happens when p is closer to 1/6.

Type II Error.

p^binomial (n,p=1/6) This happens when p is elser to 0.5.

· Uses the binomial for TYPE 1 and  TYPE 2 Errors for m. Middle 1 NH  Decision boundry between the  and H, is midpoint between the  and You which is 0.3333.  Mids vot 120 = 09 21 1 10 dans with: 0H=  site vot 120 = 09 21 1 10 dans with: 0H=  site vot 120 = 09 21 1 10 dans with: 0H=  site vot 120 = 09 21 1 10 dans with: 0H=  site vot 120 = 09 21 1 10 dans with: 0H=  site vot 120 = 09 21 1 10 dans with: 0H=  site vot 120 = 09 21 1 10 dans with: 0H=  site vot 120 = 09 21 1 10 dans with: 0H=  site vot 120 = 09 21 1 10 dans with: 0H=  site vot 120 = 09 21 10 dans w	Part c: Simulation.	H
TYPE 2 Errors for m. methods: HAH  Decision boundry between the  and H, is midpoint between 0,5!  and 1/6 which is 0.3333.  Middle 1/2 2 2 1 1 to don't sint: oH-  stand 1/2 = 2 2 1 1 to don't sint: oH-  stand 1/2 = 2 2 1 1 to don't sint: oH-  stand 1/2 = 2 2 1 1 to don't sint: oH-  stand 1/2 = 2 2 1 1 to don't sint: oH-  stand 1/4 = 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-tode bone dowl	
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Decision boundry between the and H, is midpoind between 0.5!  and You which is 0.3333.  Chartel States of a don't state the states t	TYPE 2 Errors for m. nortula? HAT	-
and H, is midpoint between 0.31.  and 1/6 which is 0.33.33.  - Ho: This Prob of a 15 Po = 0.5 Cforeon.  2: Test startistic.  3: Decision Rule.  3: Decision Rule.  3: Decision Rule.  4 Accept Ho if p is close to as.  Mathematically.  Mathematically.  Mathematically.	Part of the residence o	
Etto: This Rob of a is possession  2: Test statistic and a manage of statistic states and states of the states of	그 이 그 마을 하게 하면 하면 되었다. 이 경험사람이 아니라 사람들이 아니라 하는 것이 아이들이 아니라 아이들이 아니라 아이들이 아니라	Confirma To change
- Ho: Not of a is positiven.  - H: This Prob of a is positive to the statistic to at statistic to the statistic to a statistic and a stat	and 1/2 which is 0.3333.	
2: Test Startistic read art abshals of  p= Zi=2 Xi is more assets  Xi is (0 or 2), when of observation  3: Decision Rule.  Accept the if p is close to be in the last of last	-Ho: This Prob of 4 is Po=0-5 Cforeon)	
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· Accept the if p is close to had assured to the if p is close to is to the Mathematically.  Mathematically, and the if I p-0.51 = I p-1.5) we accept the competitions of the competitions	THORI ENTOY	8
· Accept the if p is close to all so he had as to be wateredly.  Mathematically.  If I P-0.51 = I P-16) we accept !		
· Accept the if p is close to be Mathematically, 1974  · If I P - 0.5 I = I P - 10) we accept		
Mathematically, 1997.		
· 16 16-0-21=16-18) me accept 1		1
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