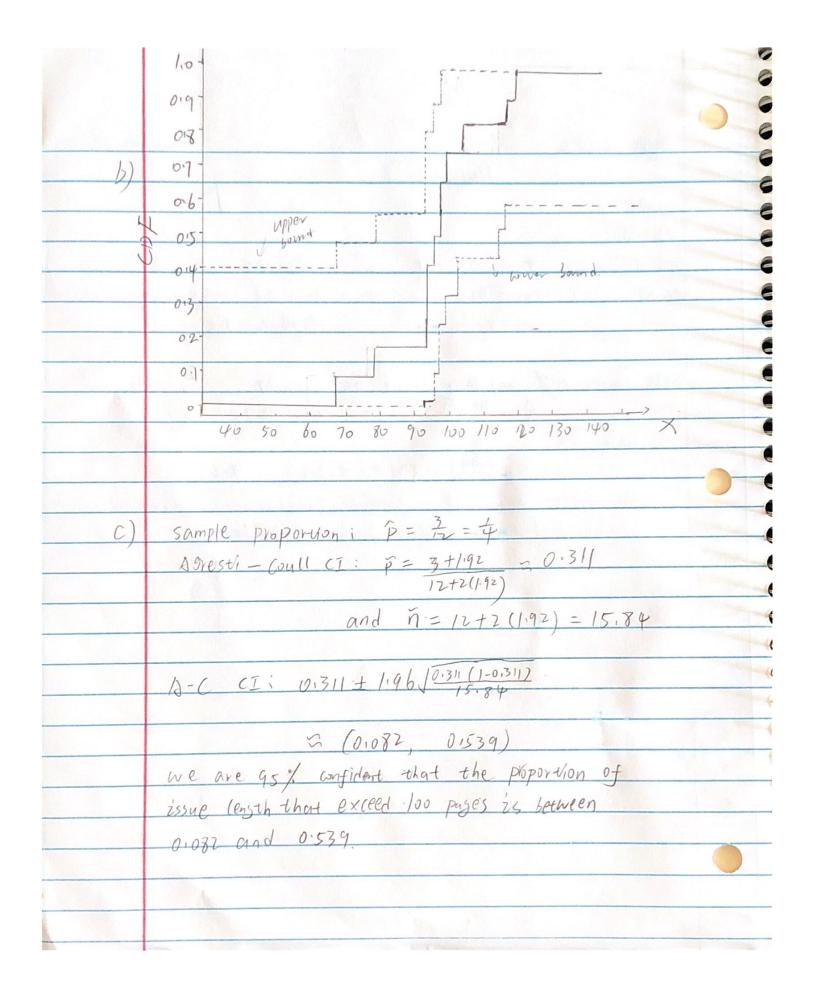
HW#) 1) a) C 01 1 2 3 4 5 6 7 8 9 10 11 1	
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1) a) C 01 1 2 3 4 5 6 7 8 9 10 11 1 Value (69 71 92 92 92 95 96 96 99 103 115 P(c) 0.002 0.003 0.016 0.054 0.121 0.123 0.124 0.054 0.016 0.003 C \sim Bin (12, 0.5) $1-[2(0.0002)+2(0.003)+2(0.016)+2(0.054)]=0.1464$ $Y=4$ $S=9=(X_4, X_9)$ P($4\leq C\leq 9$)= $1-0.1464=0.8536$ we are 85.36% confinent that the median length of an issue is between 4 and 4 order Statistics, which give the Yalue between 4 and 4 order Statistics.	1 CHOCOLLO
C 01 1 2 3 4 5 6 7 8 9 10 11 1 Value (69 11 92 92 92 95 96 96 99 103 115 P(c) 0.002 0.003 0.016 0.054 0.12 0.193 0.126 0.193 0.121 0.054 0.016 0.003 C Bin (12, 0.5) $1-[2(0.0002) + 2(0.003) + 2(0.016) + 2(0.054)] = 0.1464$ $Y = 44$ $S = 9 = (X4, X9)$ P(4 \leq C \leq 9) = $1-0.1464 = 0.8536$ we are 85.36% confident that the median length of an issue is between 4 and 9 order Statistics, which give the Yalue between 92 and 99	
C 01 1 2 3 4 5 6 7 8 9 10 11 1 Value (69 11 92 92 92 95 96 96 99 103 115 $P(c)$ 0.1002 0.003 0.016 0.054 0.121 0.193 0.226 0.193 0.121 0.054 0.016 0.003 $C \sim Bin(12, 0.5)$ $1-[2(0.0002) + 2(0.003) + 2(0.016) + 2(0.054)] = 0.1464$ $Y = 44 \qquad S = 9 \Rightarrow (X4, X9)$ $P(4 \le C \le 9) = 1-0.1464 = 0.8536$ we are 8536% confident that the median length of an issue is between 4 and 9 order Statistics, which give the Value between 92 and 99	
Value (69 11 92 92 92 95 96 96 99 103 115 $P(c)$ area 0.003 0.016 0.054 0.121 0.193 0.226 0.193 0.121 0.054 0.016 0.003 $C = Bin(12, 0.5)$ $1-[2(0.0002) + 2(0.003) + 2(0.016) + 2(0.054)] = 0.1464$ $Y = 4 \qquad S = 9 \Rightarrow (X_2, X_9)$ $P(4 \le (\le 9) = 1 - 0.1464 = 0.8536$ we are 85.36% confident that the median length of an issue is between 4 and 9 order Statistics, which give the Yalue between 92 and 99	3
$P(c)$ 0.00) 0.003 0.016 0.054 0.11 0.193 0.226 0.193 0.121 0.054 0.016 0.003 $C = Bin(12, 0.5)$ $1-[2(0.0002) + 2(0.003) + 2(0.016) + 2(0.054)] = 0.1464$ $Y = 4 \qquad S = 9 \qquad = (X_2, X_9)$ $P(4 \le C \le 9) = 1 - 0.1464 = 0.8536$ we are 85.36% confinent that the median length of an issue is between 4 and 9 order 84 85 86 86 86 86 86 86 86 86	2
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	/17
$1-[2(0.0007)+2(0.003)+2(0.016)+2(0.054)]=0.1464$ $Y=4+S=9=(X_4,X_9)$ $P(4 \le C \le 9)=1-0.1464=0.8536$ we are 85.36% confident that the median length of an issue is between 4 and 9 order Statistics, which give the Yalne between 92 and 99	0,0002
-[2 (0.0007) + 2 (0.003) + 2 (0.016) + 2 (0.054)] = 0.1464 $ Y = 4$	
P($4 \le (\le 9) = 1 - 0.1464 = 0.8536$ we are 8536% confident that the median length of an issue is between 4 and 9 order Statistics, which give the Yalne between 92 and 99	
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which give the Value between 92 and 99	
which give the Yalue between 92 and 99	
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()	Ho: 0=100 Ha: 04/00
	where 0 is the median length of an issue
R	w Xi Xi-Xe
	1 69 -31 8=3
	2 92 -8 P=P(B≤3/B \(\text{B}\) in (12,0.5)) 3 92 -8
	4 99 -1 = (17)(05)12+(12)(05)12+(13)(05)12
)	5 96 -4 = 0.0029 + 0.961 + 0.0537
	6 115 15 = 01073
	7 95 -5 Since P Value 0.073 > 0.05 Thorefor
)	3 96 -4 We fail to reject the and can't condu
	9 103 3 Ha, that is, we don't have enough evidence
)	10 92 -8 at 0,05 level to conclude that
	11 77 -23 the medican length of an Essue
100	12 117 17 is less than 100 pages.
	Assessed the second of the sec
)	
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Ho: Oax = 70, Ha: Oay + 70 B-Bin (12,0.6) Let B = # { xi > 70} we know they are 11 Value exceeding 70 upper-tailed p value: P(11)+P(12) = (12)(0.6)"(0.4)" + (12) (0.6)12 = 010196 Two tails P Value: 2 (0,0/96) = 0,0392 Since 0.0392 < 01 We reject Hound conducted, that is, we have enough evidence at percentile at conducte that with percentile 25 not 70 pages. 0 1 2 3 4 5 6 7 P(c) 0.04 0.156 0.267 0.267 0.172 0.074 0.021 0.004 0 CV Bin (9, 0.3) 0.04+0+0+0+0.004+0.02/=0.065, 1-0.065=0.935 r=1 5=6 => (x1, x6) P(C) 0.002 0.018 0.07 0.164 0.246 0.246 0.164 0.07 0.018 C - Bin (9,015) 2(0.002)+2(010/3)=0.04 Y=2, S=8 => (X2, X8) 1-0,04=0,96