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	Sec 102
	Neil Gonz
1.	if we construct a table on all possible kl values that
	Correspond to DES-k(o), then we can use the result in the next feistral cycle, where it would concell out with DESk, leaving just DES-1. From there we can bente force attack by comparing tools from the DESL, table and DESL tables with we find matching pairs (when (ki, c) (kzi, c)
	Force attack by comparing results from the DESE table and
	DESK2 tibles with we find mothin pairs (when (ki, c) (kz/c)
2.	(i = Kk (Vi Xer (i-1)
	() F (be 9, 101 (0) 2 11) Or (of the sect) F ()
	There are the equations for CBC mode. An error in Givill affect (i and City as shown
	attent (ma cott as smoot
	Citl= EL (Pi Xar Ci)
	if Ci is on error le
a)	1. (Ceti = Ex (Pi Xor Ce)
2	So ce and Cett will be affected by the error. The rest of the Cipher blocks will continue as usual
3	Citz = Ek (Pitz Xor Ceti) 36 vol 50 = 19 Citz = Ek (Pitz Xor Citi)
0	and so on
5.	Because xoris communative,
	$C = m \cdot \text{for } k \text{ for } k^{R} = m \text{ for } (2^{k} - 1)$
	So the attacker can determine the key to be 2-1 l uhere lis the length of the plaintext and m = (Xar (2-1)

4. 1) F(a, ar) -> ar, a, xor f(ar,x) 2) F(aR, a Xnrf(f(ar, k), k)= \$(2 Xor, f(f(gR,K),K), aR) 1) F(b, bp) > bp b, Xir +(bp, k) 2) F (be, by xorf(bp, k)) > by Xorf(bp, k), be xorf(bp, k) 2= Dag xor bg A about do not without on an soul if (1=d) (CL, CR)=F(f(aL,aR)) (d,dR)=F(F(b, bR)) (CL., (R) $(C_L, dR) = F(F(a_L, dR))$ 2 = CR Xor dR

1-3 such paralle de la long al 16th all of

