(y) p=137 q=241  $\phi = (p-1)(9-1) = (136)(240) = 32640$ 1:53 n=pq= (137)(241) = 33017 a m 2n = 12345 m 733017  $\frac{1}{2}$   $\frac{1}{3}$   $\frac{1}$ H 4 4 \_((j. 12345 53 12 345 1 123452 **U**-B 1-2345 = 12345 mod 33017 32318 mod 33017 152 16 (32318.16924), 22264. 12345 23227 (22266) 0 123115 (27111 0 12305) ~ N1983 C= 74933

	Decode				1- < 3	1 32	640
					l=53 \$ 32640		
<u>C</u>					53 x + 32640 g = 1		
	9	b	~	Øi			
	32640	53	45	615	32640 = 6	15 x 53 +4	
3	53	45	8	)	53 = 1 × 451 78		
3	415	3	5	5	45 = 5×8 + 5		
<b>3</b>	8	5	3		8 1x5 + 3		
	3	3	1	!	S= 1x3 + 2 3= 1x2 +1		
	1		1		3 = 1x	2 +1	
ged		<u>V</u>		1			
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	9	1/64	=	9	S	9	
	32640	53	45	615	-20	12317	1= (50) 35640+9(23)
	53	45	8	/	17	-20	1 = (17)(53) + 2(45)
	45	8	5	5	-3	17	1=(-3)45 + 2(8)
	8	5	3	)	12	-3	1=(z)(8)+d(5)
	5	3	r	1	-1	2	1=(1)(5)+d(3)
	3	2		9	1	1-1	1=(1)(3)+d(z)
yed	2		0	Z	0		1-(0)(2)+(1)(1)
		0 '			4	0	1=(1)(1)+0(0)
	$\frac{d=12317}{100}$						
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