Jacobi Symbol capaig (S, +) a chouse a, bed usbed (4(4),4(4) N208 (20) Cur (Abelion group) = Jacobi Tymbel Computation ope multiplication 50 7 ni M = n wed & N (odd) ad 1 6B beauge at earth of 24B Qa 2nd awald have 1 , inverse exists PK 11=12 aplujuj) = o und n 8K+3=N evin J (u) + J (b) = (1) 4 we perperpes doni-1

S= 1:2, 4, 1 is also valid group S= 1:2, 4) is also valid group condition of a subgroup divided the condition of a group Lunch as a subgroup divided for condition of a group Lunch as a significant condition of a group Lunch as a significant condition of a group Lunch as a significant condition of a group Sold and constill six = to	12 4 5 4 12 4 5 pare 12 4 pare 12 pare 1
The total	TT(u) to C-11 (but to prived
12" > d(v)	prints age is the special
a mid n = 1	How many primes (21224 - 1223)
perdonly pick a Ly	7.10 7.10
gcd(a, n) = 1 1	
and pro 1 9 if not not . prime.	
am mod n = 1	

PHS THE PROPERTY OF THE PASSES * Public Key Cruptegraphy (Asymmetric Cover (K, J, si) find i 1926 Diffic & Mostin Hulling given (gil gi is easy mobley but (g, g) finding ii is Co 62 A STUME STUME = W (True for some cyclic gaps only) Cr= Lg2 Alice Bob chuses i sundanty chouses i soundants + COUF with trapport (43)) (gi)i (Key) Diffic Mellomen hey exchange easy it should (gigi,gi) -> où OHP <p DLP Cyclic (1900) (K = Lg) 2 diger [04] In Con Computational DHP ((8', 45, 30), (9', 43, 94)) g' will generate some (A if and (g'ig) = 1 Decide which tuple contains go rong consporp (gi, yi, gh) Removal DMP

Por (Bud se) = 1 - frug CKCHB-PSA (Fivest - Shows - Adleman) - CP-11(9-1) 19 20 = Lx 1 1 &x c n gcd Oguldily where we pxq, e gcd ce, p(m) = 1 ASA permutation leven it x € 2n p.xy 19.xx (Use CPT) few = xe moder xed mod w = xe Toward permetation (P. xy) ed mod u warg secret d = e" and pay (p. ry)ed and p=0 ed = 1 wood d(w) if (x,p1=1 if ged (mp)=1 Secret Public 19 N=Prg xp und p=1 den1 X septimital myd b = x Funda pe and in gestions porce a co and in (when he was a second way of the word was a second was a