(I) AHS	3 2143
- 41	12of 2721
	Pr 24012, astpr 4326112
	$O(P^{-1} \equiv 1 \pmod{p})$
- 9	20124 2721.
	0.2+ ha 212 202 0/201 214 of cal (gcd (a,h)=1)
	$Q(n) \equiv \pmod{n}$ $\times not 2400 = n-1$
	(n): 1부터 N가지 검수 중 n라 서당된 검수의 개수
Q 22	HI = 01 (mxn) = P(m) x Q(n)
9	Gizg 1) modulor inverse
	3-1 mod 7 ?
	[] 5120 2721 2528.
	α ^{ρ-1} = 1 (mod ρ) σ(14) οξυμοί α ⁻¹ = 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	$ \alpha^{\rho-2} \equiv \alpha^{-1} \pmod{\rho}. $
	에시에 적용하면 35=3-1 (mod 1).
	2) १०१४ स्टा अष्ट
	Q(い) = 1 (mod n) 의 6 告題の1 の一程も2
	$Q^{(n)-1} \equiv Q^{-1} \pmod{n}.$
	데시에 작용하면 3 ⁶⁻¹ = 3 ⁻¹ (mod 7)

3) FEA == 3 mod)
3-1 mod 7= Sept 2 2021, 3,5 = 1 (mod 7)
5, 32+ noi 432477 gcd (3,7) = 3.5 + 1.4 = 1.
3.5 = 1-1.(+) olk1
=> 3.5 = 1 (mod 1) >> 1323 = 3,7 on FEA 248.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
7 = 3 0 -2 0 S = -2 o c1 UA1212 OF404 21-22
3 1 0 1 -2 7 0 1 -3 -2+7=5. 12124 225.
() माटेल १४८१ हमा है ।
9150 (mod 13)
= 3300 (mod 13)
= 312×25 (mod 13)
$= 1 \pmod{13} \qquad (7, 3)^2 = 1 \pmod{13}$
(2) 90121 7321 BM FOI
7'0 (mod 18)
Ojet $\varphi(18) = 6 \{1, 5, 7, 11, 13, 7\}$
$= \int_0^6 x \int_0^4 \mod 18$
= 74 nod 18
= 2401 mod 18
= 7 mod 18

(3) 41 E- Z OHL HUB
$Q_{13} = Q_{1101}(5)$
110 1 Diete bitshift
(2) (0 =) (1
3 110
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$(a')^2 = (a')^2 = (a')^2 \times a$
$2 \cdot \left(\alpha^{110} - \left(\alpha^{10} \right)^2 \right)$
3. $\alpha^{1100} = (\alpha^{10})^2 = (\alpha^{10})^2 \times \alpha$.
01/4) 1312 mod 37.
17(0) = (0001 (2) 0122 1317 mod 37 = 13 10601(2) mod 37 opt.
NSB -> 05=1, y= 13 mod 37
$Q_4=0$, $y=13^2\equiv 21 \mod 37$
$O_3 = 0$, $y = 21^2 = 34 \text{ mod } 3\eta$
$a_{4}=0$, $y=34^{2}=9 \mod 31$
$Q\varsigma = 1$, $\gamma = q^2 \times 13 = 17 \mod 37$.
1, 13" = 11 mod31.