```
15강 연속제급법 (Successive squaring)
   * 9 2 3 3 5 A
              a^{\otimes (m)} \equiv 1 \pmod{m} \gcd(a, m) = 1
   ex) 3083 · 4283 = /3,204,489 = M
                  \emptyset(m) = \emptyset(3083) \cdot \emptyset(4283) = 3082.4282 = 13,197,124
                   13197124 = 1 (mod m)
             A^{(000,000,000,000)} = A^{(m) \times 75774 + 1126024} = (A^{(m)})^{75774} A^{(126024)}
             1000,000,000,000 = \emptyset(m) \times 75774 + 1126024
        5 = 0^{1/26024} (mod m) m = 13204489
       * 연속제곱법 (Successive Squaring)
 2361 7 = 7 (mod m)
 7^2 = 49 \pmod{m}

7^4 = 49^2 = 240 \pmod{m}
    78 = 240 | = 576480 (mod m)
ex) 70 \mid 27

7^{283} = ? \pmod{701}

7^{283} = ? \pmod{701}
              \eta^{283} \equiv \eta^{28+24+23+21+20} \equiv \eta^{29} \cdot \eta^{24} \cdot \eta^{23} \cdot \eta^{21} \cdot \eta^{20}
                                                                                             = 24.659.478.49.7 = 25 (mod 701)
 ex) 283 = 1000 110 11 (2)
           7^{\circ} = 1 \quad (7^{\circ})^{2} = 1 \cdot 7 = 7
```

$$(\eta^{2^{\circ}})^{2} = \eta^{2^{\circ}}$$

$$(\eta^{2^{\circ}})^{2} = \eta^{2^{\circ}} \cdot \eta = \eta^{2^{\circ}}$$