```
-> 49 - 3·15 = 4
 1) 72 = 49 = 4 mod 15
   74 = (=2)2 = 42mod 15 = 16 mod 15 = -1 mod 15
78 = (74)2 = (-1)3 mod 15 = 1 mod 15
   7^{16} = (7^{8})^{2} = 1 \mod 15
   750 = +32,716,72 = 1.1.4 mod 15 = 4 mod 15
    P>64-7.9=1
1i) 83 = 64 = 4 mod 3 (
    82020 = 81024 8512 8256 828 864 82 8
        = 11 mod 9
          r> 100 - 3·35 = -5
    10^2 = 100 = -5 \mod 35
     10^4 = (10^2)^2 = 25 \mod 35 = -10 \mod 35
     108 = (104)2 = 100 mod 35 = -5 mod 35
    n = 15 \phi(15) = \phi(5 \times 3) = \phi(5) \times \phi(3) = 4 \times 2 = 8
    |n=35| \phi(35)=\phi(5\times7)=\phi(5)\times\phi(7)=4\times6=29
```

n = 9 $\phi(9) = (8)$

Los coporaços em p) () $7^{-1} = 76(15)^{-1} \mod 15 = 77 \mod 15 = [13 \mod 15]$ $[260m8] = (260m^{\frac{1}{8}} = (260m^{\frac{1}{6}}) = (260m^{\frac{1}{6})} = (260m^{\frac{1}{6}}) = (2$ iii) 34-1 = 34° (35)-1 mod 35 = 34° mod 35 = [34 mod 35] (V) $7^{-50} = (7^{50})^{-1} = (7^{50})^{0}(15) - 1$ mod 15 = $=(7^{50})^{\dagger} \mod 15 = [4 \mod 15]$ V) $8^{-2019} = (8^{2019})^{-1} = (8^{2019})^{\phi(9)-1} \mod 9 =$ = (82019) + mod 9 = 8 mod 9