[Fermat’s little theorem](https://en.wikipedia.org/wiki/Fermat%27s_little_theorem" \t "_blank) states that if p is a prime number, then for any integer a, the number (ap – a) is an integer multiple of p.

*Here p is a prime number****ap ≡ a (mod p).***

**Special Case:** If a is not divisible by p, Fermat’s little theorem is equivalent to the statement that a p-1-1 is an integer multiple of p. 

***ap-1 ≡ 1 (mod p)*** *OR****ap-1% p = 1*** *Here a is not divisible by p.*