- Given a white
$$X$$
 that is a known behr in n ,
i.e. $p[X \ cr \ e[X, \cdots \ gcd(X, n) =)_{Reg.}$
Freeds clower digs for cleating if
a number is prime.
• AKS dedennistic prime but bed constraints.
• Miller-Robin redunized
 \Rightarrow shues a number's course
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• Miller-Robin redunized
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 $\uparrow \log n \ n \ him \ T(n) \ formula formula
- Chebyshev $T(n) \ Hof \ primes \ he formula
 $= \frac{2}{N(n)} \frac{2}{N(n)} = \frac{1}{N(n)} \frac{2}{N(n)} = \frac{1}{N(n)} \frac{2}{N(n)} \frac{2}{N(n)} = \frac{1}{N(n)} \frac{2}{N(n)} \frac{2}{N(n)}$$$$$$$$$

Gen ():
Simple Pig logo pives

$$M = Pig$$
 public modula
 $M(n) = \overline{Q + Q}$ product modula
 $M(n) = \overline{Q + Q}$ are cheen so that $e \cdot d = 1 \mod Q(n)$
 $M = \overline{Q + Q}$ are cheen so that $e \cdot d = 1 \mod Q(n)$
 $M = \overline{Q + Q}$
 $E = M + Q + M = Q + M = Q + M = Q(n)$
 $C = M^2 \mod \Omega$
 $M = (P, q, d)$
 $C = M^2 \mod \Omega$
 $M = (P, q, d)$
 $C = M^2 \mod \Omega$
 $M = M^2 + M$

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$$n = 7 \cdot 5,$$

 $Q(n) = 6 \cdot 4 = 2^{3} \cdot 3$
3 has no have in $\mathbb{R}(p(n))$

RfN Signatures:
Sign (sk, m):

$$die, P, q, n$$

 $\sigma := m^{0} \mod n$.
 $VealFy: (G, m, pk):$
 n, e
 $check m \stackrel{?}{=} G^{e} \mod n$
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$$G = a \mod p \qquad G' = a' \mod p \qquad Only \ Sign \ any \ Volid \\ even numbed. \\ G = a \mod p \qquad G' = a' \mod p \qquad Only \ Sign \ any \ Volid \\ even numbed. \\ G = b \mod q \qquad = b \mod q \qquad G' \ urong \ output: \\ (G - G') = 0 \mod q. \qquad G' \ urong \ output: \\ (G - G') = 0 \mod q. \qquad G' \ urong \ output: \\ g \ Olvides \ (G - G') = q \qquad > records \\ G = g \ Olvides \ Servet \ Wey. \end{cases}$$