$$n = P \times 2 = 3 \times 11 = 33$$

$$\phi(n) = (P^{-1})(q^{-1}) = 2 \times 10 = 20$$

$$d = \frac{k\beta(n)+1}{e}$$

$$= \frac{20k+1}{3}$$

$$k=1, d=\frac{21}{3}=7$$

$$d = \frac{20 + 1}{7}$$

$$k=1$$
,  $d=\frac{21}{7}=3$