

$$a = b \pmod{w}.$$

$$[y-1)d+x] = [(x-1)d+y] \pmod{w}$$

$$[y-1)d+x] = kw + [(x-1)d+y]$$

$$yd+x = kw + xd+y.$$

$$yd-xd+x-y = kw$$

$$-d(x-y) + (x-y) = kw$$

$$-d(x-y) + (x-y) = kw = (1-d)(x-y)$$

$$(d-1)(x-y) = 0 \pmod{w}.$$

$$aby$$

$$accordingly (x-y) = kw'$$

$$y(x-y) = 0 \pmod{w}$$

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