Data Word: D(x)   1001   0010   0001

$G(x) : X^4 + X^3 + 1 \longrightarrow 11001$

$$\frac{X^g D(x)}{G(x)} = \frac{1001\ 0010\ 0001\ 0000}{11001}$$

```
                    0000 1110 1000 1110
         _____
  11001 / 1001 0010 0001 0000
          11001
          _____
           10110
           11001
           _____
            11111
            11 001
            _____
            00 1100
               0000
               _____
               11000
               11001
               _____
               0000 10010
                    11001
                    _____
                    10110
                    11001
                    _____
                    11110
                    11001
                    _____
                    1110
```

$R(x) = 1110$

$C(X) = 1001\ 0010\ 0001\ 1110$