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IBMI9CS401

CRC prgm

```
def xor(a, b):  
    result = ''  
    for i in range(1, len(b)):  
        if a[i] == b[i]:  
            result += '0'  
        else:  
            result += '1'
```

```
    return ''.join(result)
```

```
def mod_div(dividend, divisor):  
    pick = len(divisor)
```

```
    tmp = dividend[0:pick]
```

```
    while pick < len(dividend):
```

```
        if tmp[0] == '1':  
            dividend[pick]
```

```
            tmp =
```

```
            tmp = xor(tmp[pick:], dividend[pick])
```

```
            dividend[pick]
```

```
            pick += 1
```



```
codeword = encodeData(data, key)
print ("Transmitted codeword: " + str(codeword))
code = input ("Enter the transmitted codeword: ")
received_data = int (decodeData (code, key)).
if received_data == 0:
    print ("No error")
else:
    print ("Error detected"):
```