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18M18CIS111

```
#include <stdio.h>
```

```
char n[50], g[50], r[50], p[50], d[50];
```

```
void calTrans (int);
```

```
void enc (int);
```

```
void calhan ();
```

```
void shift ();
```

```
int main ()
```

```
{
    int n, i=0;
```

```
    char ch; flag = 0;
```

```
    printf ("Enter plain bits: ");
```

```
    while ((ch = getc (stdin)) != '\n')
```

```
        m[i++] = ch;
```

```
    n = i;
```

```
    for (i=0; i<16; i++)
```

```
        m[i++] = '0';
```

```
    m[n] = '\0';
```

```
    printf ("Message after appending 16 zeros: %s", m);
```

```
    for (i=0; i<16; i++)
```

```
        g[i] = '0';
```

```
    g[0] = g[5] = g[10] = g[15] = 1; g[17] = '0';
```

```
    printf ("Key generation: %s", g);
```

```
    enc(n);
```

```
    printf ("Encrypted quotient: %s", g);
```

```
    calTrans(n);
```

```
    printf ("Encrypted transmitted plain: %s", n);
```

```
    printf ("Enter transmitted plain: ");
```

```
    scanf ("%s", n);
```

```
    printf ("CRC checking: ");
```

```
    enc(n);
```

printf ("\\n last remainder : %s" m);

for (i=0; i<16; i++)

if (n[i] != '0')

flag = 1;

else

Continue;

if (flag == 1)

printf ("Error during transmission");

else

if ("n" received from is Camel)

void h0(int n)

{ int i, j;

for (i=0; i<n; i++)

temp[i] = n[i];

for (i=0; i<16; i++)

n[i] = temp[i];

printf ("\\n remainder remainder 1 n");

for (i=0; i<n-16; i++)

{ if (n[i] == '1')

flag = 1;

return (1);

else if (n[i] == '0');

skip(1);

n[16] = n[n-1];

n[17] = '0';

printf ("\\n remainder %s, %s", i-1, n);

for (i=0; i<17; i++)
temp[i] = a[j];

g[n-16] = '0';

void Calhan ()

{ int i, j;

for (i=1; i<16; i++)

a[i-1] = (a[i+1]temp[i]-48)^(a[i+1]g[i-1]-48) % 8;

void shift ()

{ int i;

for (i=1; i<16; i++)

a[i-1] = a[i];

}

void Calhan (int n)

{

int i, k = 0;

for (i=n-16; i<n; i++)

m[i] = (a[i+1]a[i-1]-48)^(a[i+1]a[k]-48) % 8;

m[i] = '0';

}