

DATE:  -  -

```
#include <iostream.h>
#include <string.h>
using namespace std;
int crc (char *ip, char *op, char *poly, int mode)
{
    strcpy (op, ip);
    if (mode)
        for (int i=1; i < strlen (poly); i++)
            strcat (op, "0");
    for (int i=0; i < strlen (ip); i++)
    {
        if (op[i] == '1')
        {
            for (int j=0; j < strlen (poly); j++)
            {
                if (op[i+j] == poly[j])
                    op[i+j] = "0";
                else
                    op[i+j] = "1";
            }
        }
    }
    for (int i=0; i < strlen (op); i++)
        if (op[i] == '1')
            return 0;
    return 1;
}
```

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```
int main ()  
{
```

```
    char ip[50], op[50], rev[50];
```

```
    char poly[];
```

```
    cout << "Enter input message ";
```

```
    cin >> ip;
```

```
    crc(ip, op, poly, 1);
```

```
    cout << "Transmitted message" << ip << op  
          << strlen(ip) << endl;
```

```
    cout << "Enter message in binary";
```

```
    cin >> rev;
```

```
    if (crc(rev, op, poly, 0))  
    {
```

```
        cout << "No error in data";
```

```
    }
```

```
    else  
    {
```

```
        cout << "Error in data";
```

```
    }
```

```
    return 0;
```

```
}
```