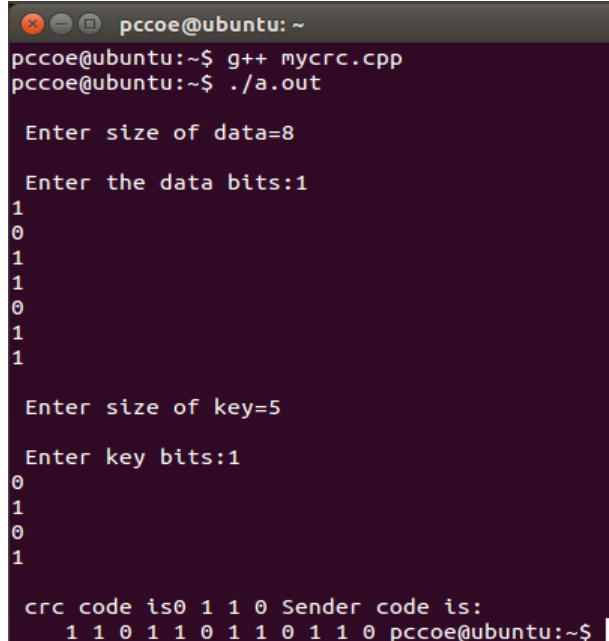


```

#include<iostream>
using namespace std;
int main() {
    int fs,gs,f[10],g[10],temp[20],j,k,crc[20],rs;
    cout<<"\n Enter size of data=";
    cin>>fs;
    cout<<"\n Enter the data bits:";
    for(int i=0;i<fs;i++)
        cin>>f[i];
    cout<<"\n Enter size of key=";
    cin>>gs;
    cout<<"\n Enter key bits:";
    for(int i=0;i<gs;i++)
        cin>>g[i];
    rs=gs-1;
    for(int i=fs;i<rs+fs;i++)
        f[i]=0;
    for(int i=0;i<fs+rs;i++)
        temp[i]=f[i];
    for(int i=0;i<fs;i++) {
        j=0;k=i;
        if(temp[k]>=g[j]) {
            for(j=0,k=i;j<gs;j++,k++) {
                if((temp[k]==1 && g[j]==1)||((temp[k]==0 && g[j]==0))
                    temp[k]=0;
                else
                    temp[k]=1;
            }
        }
    }
    for(int i=0,k=fs;i<rs;i++,k++)
        crc[i]=temp[k];
    cout<<"\n crc code is";
    for(int i=0;i<rs;i++)
        cout<<crc[i]<<" ";
    for(int i=fs,j=0;j<rs;j++,i++)
        f[i]=crc[j];
    cout<<"Sender code is:\n  ";
    for(int i=0;i<fs+rs;i++)
        cout<<f[i]<<" ";
    return 0;
}

```



```

pccoe@ubuntu: ~
pccoe@ubuntu:~$ g++ mycrc.cpp
pccoe@ubuntu:~$ ./a.out

Enter size of data=8

Enter the data bits:1
1
0
1
1
0
1
1

Enter size of key=5

Enter key bits:1
0
1
0
1

crc code is0 1 1 0 Sender code is:
1 1 0 1 1 0 1 1 0 1 1 0 pccoe@ubuntu:~$

```