

Experiment No. 1

CRC

Problem Statement

Write a program for error detecting code using CRC-CCITT (16-bits).

Algorithm:-

1. Given a bit string, append 0^5 to the end of it (the number of 0^5 is the same as the degree of the generator polynomial) let $B(x)$ be the polynomial corresponding to B.
2. Divide $B(x)$ by some agreed on polynomial $G(x)$ (generator polynomial) and determine the remainder $R(x)$. This division is to be done using Modulo 2 Division.
3. Define $T(x) = B(x) - R(x)$

$(T(x)/G(x) \rightarrow \text{remainder } 0)$

4. Transmit T, the bit string corresponding to $T(x)$.
5. Let T' represent the bit stream the receiver gets and $T'(x)$ the associated polynomial. The receiver divides $T'(x)$ by $G(x)$. If there is a 0 remainder, the receiver concludes $T = T'$ and no error occurred otherwise, the receiver concludes an error occurred and requires a retransmission.

Program

```
#include<stdio.h>
#include<string.h>
#include<conio.h>
#define N strlen(q)

char t[128], cs[128], g[]="100010000000100001";
int a, e, c;

void xor() {
    for(c=1;c<N;c++) cs[c]=((cs[c]==g[c])?'0':'1');
}

void crc() {
    for(e=0;e<N;e++) cs[e]=t[e];
    do {
        if(cs[0]=='1') xor();
        for(c=0;c<N-1;c++) cs[c]=cs[c+1];
        cs[c]=t[e++];
    }while(e<=a+N-1);
}

void main() {
    clrscr();
    printf("\nEnter poly : "); scanf("%s",t);
    printf("\nGenerating Polynomial is : %s",g);
    a=strlen(t);
    for(e=a;e<a+N-1;e++) t[e]='0';
    printf("\nModified t[u] is : %s",t);
    crc();
    printf("\nChecksum is : %s",cs);
    for(e=a;e<a+N-1;e++) t[e]=cs[e-a];
    printf("\nFinal Codeword is : %s",t);
}
```

Lab Manual For Discrete Mathematics

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