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CLASS SY MCA

ROLL NO 54

Implement Go Back N sliding window protocol.

#include<iostream>

#include<ctime>

#include<cstdlib>

using namespace std;

int main()

{

int nf,N;

int no\_tr=0;

srand(time(NULL));

cout<<"Enter the number of frames : ";

cin>>nf;

cout<<"Enter the Window Size : ";

cin>>N;

int i=1;

while(i<=nf)

{

    int x=0;

    for(int j=i;j<i+N && j<=nf;j++)

    {

        cout<<"Sent Frame "<<j<<endl;

        no\_tr++;

    }

    for(int j=i;j<i+N && j<=nf;j++)

    {

        int flag = rand()%2;

        if(!flag)

            {

                cout<<"Acknowledgment for Frame "<<j<<endl;

                x++;

            }

        else

            {   cout<<"Frame "<<j<<" Not Received"<<endl;

                cout<<"Retransmitting Window"<<endl;

                break;

            }

    }

    cout<<endl;

    i+=x;

}

cout<<"Total number of transmissions : "<<no\_tr<<endl;

return 0;

}

**OUTPUT :**

**Enter the number of frames: 10**

**Enter the Window Size : 3**

**Sent Frame 1**

**Sent Frame 2**

**Sent Frame 3**

**Acknowledgment for Frame 1**

**Acknowledgment for Frame 2**

**Acknowledgment for Frame 3**

**Sent Frame 4**

**Sent Frame 5**

**Sent Frame 6**

**Frame 4 Not Received**

**Retransmitting Window**

**Sent Frame 4**

**Sent Frame 5**

**Sent Frame 6**

**Acknowledgment for Frame 4**

**Acknowledgment for Frame 5**

**Acknowledgment for Frame 6**

**Sent Frame 7**

**Sent Frame 8**

**Sent Frame 9**

**Acknowledgment for Frame 7**

**Acknowledgment for Frame 8**

**Acknowledgment for Frame 9**

**Sent Frame 10**

**Acknowledgment for Frame 10**

**Total number of transmissions: 13**