```c
//B20CS1130
//Experiment 13
//Stop & Wait

#include <stdio.h>

int main(){
        int i,fsize,send=-1,ack;
        printf("\nEnter the frame size: ");
        scanf("%d",&fsize);
        for(i=0;i<fsize;i++){
                printf("\nThe message is received: %d",i);
                send++;
                printf("\nEnter the ack: ");
                scanf("%d",&ack);
                if(ack>fsize)
                        break;
                else if(ack==send)
                        printf("\nAcknowledgement received successfully: %d",ack);
                else{
                        printf("\nWrong acknowledgement");
                        i--;
                        send--;
                }
        }
}
/*
OUTPUT
s6cs130@comp62:~$ gcc 15.sw.c
s6cs130@comp62:~$ ./a.out

Enter the frame size: 8

The message is received: 0
Enter the ack: 0

Acknowledgement received successfully: 0
The message is received: 1
Enter the ack: 0

Wrong acknowledgement
The message is received: 1
Enter the ack: 1
```

Acknowledgement received successfully: 1
The message is received: 2
Enter the ack: 2

Acknowledgement received successfully: 2
The message is received: 3
Enter the ack: 3

Acknowledgement received successfully: 3
The message is received: 4
Enter the ack: 4

Acknowledgement received successfully: 4
The message is received: 5
Enter the ack: 5

Acknowledgement received successfully: 5
The message is received: 6
Enter the ack: 6

Acknowledgement received successfully: 6
The message is received: 7
Enter the ack: 7

Acknowledgement received successfully: 7
*/