```c
#include <stdio.h>
#include <stdlib.h>
#define MAX 5
int main() {
    int windowSize, totalFrames, sent = 0, ack, i;
    printf("Enter total number of frames: ");
    scanf("%d", &totalFrames);
    printf("Enter window size: ");
    scanf("%d", &windowSize);
    printf("\n--- SLIDING WINDOW PROTOCOL (Go-Back-N) ---\n");
    while (sent < totalFrames) {
        printf("\nSender: Sending frames %d to %d\n",
                sent + 1,
                (sent + windowSize <= totalFrames) ? sent + windowSize : totalFrames);
        for (i = 0; i < windowSize && sent + i < totalFrames; i++) {
            printf("   Frame %d sent.\n", sent + i + 1);
        }
        printf("\nEnter the last ACK received (0 if no ACK): ");
        scanf("%d", &ack);
        if (ack == 0) {
            printf("Receiver: ACK lost! Sender retransmits the window.\n");
        }
        else if (ack > sent && ack <= sent + windowSize) {
            printf("Receiver: ACK %d received successfully.\n", ack);
            sent = ack;
        }
        else {
            printf("Invalid ACK. No progress.\n");
        }
    }
    printf("\nAll frames transmitted successfully!\n");
    return 0;
}
```

```
Output

Enter total number of frames: 7
Enter window size: 3

--- SLIDING WINDOW PROTOCOL (Go-Back-N) ---

Sender: Sending frames 1 to 3
    Frame 1 sent.
    Frame 2 sent.
    Frame 3 sent.

Enter the last ACK received (0 if no ACK): 3
Receiver: ACK 3 received successfully.

Sender: Sending frames 4 to 6
    Frame 4 sent.
    Frame 5 sent.
    Frame 6 sent.

Enter the last ACK received (0 if no ACK): 6
Receiver: ACK 6 received successfully.

Sender: Sending frames 7 to 7
    Frame 7 sent.

Enter the last ACK received (0 if no ACK):
```