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ProgramizC Online Compiler

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main.c

```
1 #include<stdio.h>
2
3 int main()
4 {
5     int w,i,f,frames[50];
6
7     printf("Enter window size: ");
8     scanf("%d",&w);
9
10    printf("\nEnter number of frames to transmit: ");
11    scanf("%d",&t);
12
13    printf("\nEnter %d frames: ",f);
14
15    for(i=1;i<=f;i++)
16        scanf("%d",&frames[i]);
17
18    printf("\nWith sliding window protocol the frames will be sent in the
19    following manner (assuming no corruption of frames)\n\n");
20    printf("After sending %d frames at each stage sender waits for
21    acknowledgement sent by the receiver\n\n",w);
22
23    for(i=1;i<=f;i++)
24    {
25        if(i%w==0)
26        {
27            printf("%d\n",frames[i]);
28        }
29    }
```

Run

Output

Clear

```
/tmp/Ys9Z0PJVe1.0
Enter window size: 5
Enter number of frames to transmit: 1 2 3 4 5
Enter 1 frames:
With sliding window protocol the frames will be sent in the following manner (assuming
no corruption of frames)

After sending 5 frames at each stage sender waits for acknowledgement sent by the
receiver

2
Acknowledgement of above frames sent is received by sender
```

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main.c

```
1 // Include headers
2 #include<stdio.h>
3 #include<string.h>
4 // length of the generator polynomial
5 #define N strlen(gen_poly)
6 // data to be transmitted and received
7 char data[28];
8 // CRC value
9 char check_value[28];
10 // generator polynomial
11 char gen_poly[10];
12 // variables
13 int data_length,i,j;
14 // function that performs XOR operation
15 void XOR(){
16     // If both bits are the same, the output is 0
17     // If the bits are different the output is 1
18     for(j = 1;j < N; j++)
19         check_value[j] = ((check_value[j] == gen_poly[j])?'0':'1');
20
21 }
22 // Function to check for errors on the receiver side
23 void receiver(){
24     // get the received data
25     printf("Enter the received data: ");
26     scanf("%s", data);
27     printf("\n");
```

Run

Output

Clear

```
/tmp/Ys9Z0PJVe1.0
Enter data to be transmitted: 5
Enter the Generating polynomial: 3 2 1 6 8
-----
Data padded with n-1 zeros : 5
-----
CRC or Check value is :
-----
Final data to be sent : 5
-----
Enter the received data:
-----
Data received: 2
No error detected
```

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Search

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```
1 #include<stdio.h>
2 #include<string.h>
3 int main()
4 {
5     int i=0,count=0;
6     char databits[80];
7     printf("Enter Data Bits: ");
8     scanf("%s",databits);
9     printf("\nData Bits After Bit stuffing: ");
10    for(i=0; i<strlen(databits); i++)
11    {
12        if(databits[i]!='1')
13            count++;
14        else
15            count=0;
16        printf("%c",databits[i]);
17        if(count==5)
18        {
19            printf("0");
20            count=0;
21        }
22    }
23    return 0 ;
24 }
```

Output

```
/tmp/Ys9Z0PJVe1.o
Enter Data Bits: 20
Data Bits After Bit stuffing: 20
```

JAVA program

```
1 import java.time.LocalDate;
2 import java.time.format.DateTimeFormatter;
3
4 public class Main {
5     public static void main(String[] args) {
6         LocalDate myDateObj = LocalDate.now();
7         DateTimeFormatter myFormatObj = DateTimeFormatter.ofPattern("dd-MM-yyyy HH:mm:ss");
8
9         String formattedDate = myDateObj.format(myFormatObj);
10        System.out.println("The current date and time is: " + formattedDate);
11    }
12 }
13
14
```

Output

```
java -cp /tmp/3uOQUNFjYv Main
The current date and time is: 12-08-2023 06:57:39
```