```
recv(sock,a,sizeof(a),0);
if(strcmp(a,b)==0)
{
break;
}
i=0;
while(i<W)
j=rand()%P1;
if(j < P2)
send(sock,b,sizeof(b),0);
break;
}
else
alpha9(c);
if(c \le f)
printf("\nFrame %s Received ",a);
send(sock,a,sizeof(a),0);
}
else
break;
}
C++;
if(c>f)
break;
j++;
close(sock);
close(s);
return 0;
}
```

```
void alpha9(int z)
{
  int k,i=0,j,g;
  k=z;
  while(k>0)
{
  i++;
  k=k/10;
}
  g=i;
  i--;
  while(z>0)
{
  k=z%10;
  a[i]=k+48;
  i--;
  z=z/10;
}
  a[g]='\0';
}
```

```
Activities Terminal * Wed 00:55 * p1920@administrator-russ:-/unni/CN

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The packet number 1 is not received

resending packet 1

resending packet 1

All packets sent successfullypi920@administrator-russ:-/unni/CNS -/a.out

1.Selective repeat ARQ
2.Coback ARQ
3.2Coback ARQ
3.2Coback ARQ
2.Coback ARQ
2.Coback ARQ
3.Sexit
Enter your choice:2

Enter the no. of packets to be sent:e
Floating point exception (core dumped)
3.Sexit
Enter your choice:2

Enter the no. of packets to be sent:3

Enter data for packets[]2

Enter data for packets[]1

Enter data for packets[]2

Enter data for packets[]3

The packet number 1 is not received

2 resending from packet 1

Received data of packet 3

S all packets sent successfully
p1920@administrator-rusar-/unnis/cn5

Z all packets sent successfully
p1920@administrator-r
```

3. Selective repeat ARQ

Reciver.c

```
#include<stdio.h>
#include<sys/types.h>
#include<sys/socket.h>
#include<netinet/in.h>
#include<string.h>
#include<time.h>
#include<stdlib.h>
#include<ctype.h>
#include<arpa/inet.h>
#define W 5
#define P1 50
#define P2 10
char a[10];
char b[10];
void alpha9(int);
void alp(int);
int main()
{
struct sockaddr in ser,cli;
int s,n,sock,i,j,c=1,f;
unsigned int s1;
s=socket(AF_INET,SOCK_STREAM,0);
ser.sin_family=AF_INET;
ser.sin port=6500;
ser.sin addr.s addr=inet addr("127.0.0.1");
bind(s,(struct sockaddr *) &ser, sizeof(ser));
listen(s,1);
n=sizeof(cli);
sock=accept(s,(struct sockaddr *)&cli, &n);
printf("\nTCP Connection Established.\n");
s1=(unsigned int) time(NULL);
srand(s1);
strcpy(b,"Time Out ");
recv(sock,a,sizeof(a),0);
f=atoi(a);
while(1)
for(i=0;i<W;i++)
```

```
recv(sock,a,sizeof(a),0);
if(strcmp(a,b)==0)
{
break;
}
i=0;
while(i<W)
{
L:
j=rand()%P1;
if(j < P2)
{
alp(c);
send(sock,b,sizeof(b),0);
goto L;
}
else
{
alpha9(c);
if(c \le f)
printf("\nFrame %s Received ",a);
send(sock,a,sizeof(a),0);
}
else
break;
C++;
if(c>f)
break;
j++;
close(sock);
close(s);
```