```
#include<stdio.h>
#include<string.h>
int min(int x,int y)
{
if(x<y)
return x;
else
return y;
}
int main()
{
        int drop=0,mini,nsec,cap,count=0,i,inp[25],process;
printf("Enter the bucket size:\n");
scanf("%d", &cap);
printf("Enter the processing rate \n");
scanf("%d",&process);
printf("Enter the number of seconds you want to stimulate \n");
scanf("%d",&nsec);
for(i=0;i<nsec;i++)</pre>
{
printf("Enter the size of the packet entering at %d sec \n", i+1);
scanf("%d", &inp[i]);
}
printf("\n Second | Packet received | Packet sent | Packet left | Dropped \n");
for(i=0;i<nsec;i++)
{
                count+=inp[i];
```

```
if(count>cap)
{
                       drop=count -cap;
count=cap;
}
printf("%d",i+1);
printf("\t%d",inp[i]);
mini=min(count,process);
printf("\t\t%d",mini);
count=count-mini;
printf("\t\t %d",count);
printf("\t\t %d\n", drop);
drop=0;
}
for(;count!=0;i++)
if(count>cap)
                       drop=count- cap;
count=cap;
}
printf("%d",i+1);
printf("\t0");
mini=min(count,process);
printf("\t\t%d",mini);
count=count-mini;
printf("\t\t %d",count);
printf("\t\ \%d\n", drop);
}
```

```
}
Enter the bucket size:
Enter the processing rate
Enter the number of seconds you want to stimulate
Enter the size of the packet entering at 1 sec
Enter the size of the packet entering at 2 sec
Enter the size of the packet entering at 3 sec
 Second | Packet received | Packet sent | Packet left | Dropped
         5
1
2
3
4
5
                          2
2
2
                                                             0
                                            3
         4
                                                             2
                                            3
         3
                                                             1
                          2
1
                                                             0
         0
```