



```
1 #include<stdio.h>
2 int main ()
3 {
4     int i,j,n,a[50],frame[10],nf,k,avail,count=0;
5     printf("\n ENTER THE NUMBER OF PAGES:\n");
6     scanf("%d",&n);
7     printf("\n ENTER THE PAGE NUMBER:\n");for(i=1;i<=n;i++)scanf("%d",&a[i]);
8     printf("\n ENTER THE NUMBER OF FRAMES :");
9     scanf("%d",&nf);for(i=0;i<nf;i++)frame[i]=-1;j=0;
10    printf("\tref string\t page frames\n");for(i=1;i<=n;i++)
11    {
12        printf("%d\t\t",a[i]);avail=0;for(k=0;
13        k<nf;k++)
14            if(frame[k]==a[i])avail=1;
15        if (avail==0)
16        {
17            frame[j]=a[i];j=j-(j-1)%nf;c
18            out++;for(k=0;k<nf;k++)
19            printf("%d\t",frame[k]);
20        }
21        printf("\n");
22    }
23    printf("Page Fault Is %d",count);
24 }
25
26
```

```
C:\Users\sruthi\OneDrive\Documents\Untitled1.exe
Project Class
1.Producer
2.Consumer
3.Exit
Enter your choice:1
Producer produces the item 1
Enter your choice:1
Producer produces the item 2
Enter your choice:2
Consumer consumes item 2
Enter your choice:1
Producer produces the item 2
Enter your choice:2
Consumer consumes item 2
Enter your choice:2
Consumer consumes item 1
Enter your choice:3
.....
Process exited after 62.05 seconds with return value 0
Press any key to continue . . .
```