#include<stdio.h>  
int main()  
{  
FILE \*fp;  
fp=fopen("data.txt","a");  
int Ref[50],frame[10],no,k,flag,c=0;  
int i,n;  
 printf("\n enter referenc string size");  
 scanf("%d",&n);  
 printf("\nenter reference string:\n");  
 for(i=1;i<=n;i++)  
 scanf("%d",&Ref[i]);  
 printf("\nenter the no. of frames to be used:");  
 scanf("%d",&no);  
for(i=0;i<no;i++)  
 frame[i]= -1;  
 int j=0;  
   
for(i=1;i<=n;i++)  
 {  
 printf("\n current page no in reference string");  
 printf("\t%d\t\t",Ref[i]);  
 flag=0;  
 for(k=0;k<no;k++)  
 if(frame[k]==Ref[i])  
 flag=1;  
 if (flag==0)  
 {  
 frame[j]=Ref[i];  
 j=(j+1)%no;  
 c++;  
 printf("\n frame content after processsing page %d\n",Ref[i]);  
 for(k=0;k<no;k++)  
 printf("%d\t",frame[k]);  
}  
 printf("\n");  
}  
 printf("\ntotal no. of page faults %d",c);  
 fprintf(fp,"%d %d",c,no);  
 return 0;  
}