

```

#include<stdio.h>
struct frames
{
    int content,count; }frame[100];

void main()
{
    int i,j,k,p,f,page[100],cnt=1,min,pf=0,id=0;
    printf("ENTER THE NUMBER OF PAGES : ");
    scanf("%d",&p);
    printf("ENTER THE REFERENCING STRING : ");
    for(i=0;i<p;i++)
    {
        scanf("%d",&page[i]);
    }
    printf("ENTER THE NUMBER OF FRAMES : ");
    scanf("%d",&f);
    for(i=0;i<f;i++)
    {
        frame[i].content = -1;
        frame[i].count = 0;
    }
    printf("\nREFERENCING PAGE\tSTATUS\t\tFRAME CONTENT\n\n");
    for(i=0;i<p;i++)
    {
        printf("\t%d\t\t",page[i]);
        for(j=0;j<f;j++)
        {
            if(frame[j].content == page[i])
            {
                printf("HIT\t\t");
                frame[j].count = cnt++;
                break;
            }
        }
        if(j==f)
        {
            printf("MISS\t\t");
            if(id<f)
            {
                frame[id].content = page[i];
                frame[id].count = cnt++;
                id++;
            }
            else
            {
                min=0;
                for(k=0;k<f;k++)
                {
                    if(frame[k].count<frame[min].count)
                        min = k;
                }
                frame[min].content = page[i];
                frame[min].count = cnt++;
            }
        }
        pf++;
    }
    for(j=0;j<f;j++)
    {
        if(frame[j].content != -1)
            printf("%d\t",frame[j].count);
    }
    printf("\n");
    printf("\nPAGE FAULT : %d\n",pf);
}

```