```
#include <stdio.h>
struct frame
{ int content;
 int freq;
 int count; }frames[100];
void main()
int i,j,pg,fr,count,pf,min,page[100],id=0;
printf("ENTER THE NUMBER OF PAGES:");
scanf("%d",&pg);
printf("ENTER THE REFERENCING STRING:");
for(i=0;i<pg;i++)
{ scanf("%d",&page[i]); }
printf("ENTER THE NUMBER OF FRAMES:");
scanf("%d",&fr);
for(i=0;i<fr;i++)
 frames[i].content = -1;
 frames[i].freq = 0;
 frames[i].count = 0;
printf("\nREFERENCING PAGE\tSTATUS\t\tFRAME CONTENT\n\n");
for(pf=0,count=1,i=0;i<pg;i++)
 printf("\t%d\t\t",page[i]);
 for(j=0;j<fr;j++)
  if(frames[j].content == page[i])
   printf("HIT\t\t");
   frames[j].freq++;
   break;
 if(j == fr)
 {
  printf("MISS\t\t");
  if(id<fr)
   frames[id].content = page[i];
   frames[id].freq++;
   frames[id].count = count++;
  id++;
  }
  else
   for(min=0,j=0;j<fr;j++)
   if(frames[min].freq > frames[j].freq)
    {
    min = j;
   }
    else if(frames[min].freq == frames[j].freq && frames[min].count > frames[j].count)
    min = j;
   }
   }
   frames[min].content = page[i];
   frames[min].freq = 1;
   frames[min].count = count++;
  }
  pf++;
 }
 for(j=0;j<fr;j++)
  if(frames[j].content !=-1)
   printf("%d\t",frames[j].content);
 printf("\n");
printf("\nTOTAL PAGE FAULT : %d\n",pf);
```