Exp:32

Code:

#include<stdio.h>

#include<conio.h>

main()

{

int i, j , k, min, rs[25], m[10], count[10], flag[25], n, f, pf=0, next=1;

printf("Enter the length of reference string -- ");

scanf("%d",&n);

printf("Enter the reference string -- ");

for(i=0;i<n;i++)

{

scanf("%d",&rs[i]);

flag[i]=0;

}

printf("Enter the number of frames -- ");

scanf("%d",&f);

for(i=0;i<f;i++)

{

count[i]=0;

m[i]=-1;

}

printf("\nThe Page Replacement process is -- \n");

for(i=0;i<n;i++)

{

for(j=0;j<f;j++)

{

if(m[j]==rs[i])

{

flag[i]=1;

count[j]=next;

next++;

}

}

if(flag[i]==0)

{

if(i<f)

{ m[i]=rs[i];

count[i]=next;

next++;

}

else

{ min=0;

for(j=1;j<f;j++)

if(count[min] > count[j])

min=j;

m[min]=rs[i];

count[min]=next;

next++;

}

pf++;

}

for(j=0;j<f;j++)

printf("%d\t", m[j]);

if(flag[i]==0)

printf("PF No. -- %d" , pf);

printf("\n");

}

printf("\nThe number of page faults using LRU are %d",pf);

getch();

}

Output:

