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ROLL NO:-27
PROGRAM
#include<stdio.h
> int fr[3], n,
m; void
display(); void
main() {
int i,j,page[20],fs[10];
int
max, found=0, lg[3], index, k, l, flag1=0, flag2=0, pf=0;
float pr;
printf("Enter length of the reference string: ");
scanf("%d",&n);
printf("Enter the reference string: ");
for(i=0;i<n;i++)
scanf("%d", &page[i]);
printf("Enter no of frames: ");
scanf("%d",&m);
for(i=0;i<m;i++) fr[i]=-
1; pf=m;
for (j=0; j<n; j++)
{ flag1=0; flag2=0;
        for(i=0;i<m;i++)
        { if(fr[i] == page[j])
                 { flag1=1; flag2=1;
                         break;
                 }
if(flag1==0) {
for (i=0;i<m;i++)</pre>
{ if(fr[i]==-1) {
fr[i]=page[j];
flag2=1; break; }}
if(flag2==0) {
for(i=0;i<m;i++)</pre>
lg[i]=0;
for(i=0;i<m;i++) {
for(k=j+1; k<=n; k++) {
if(fr[i] == page[k]) {
lg[i]=k -j; break; }}
found=0;
for(i=0;i<m;i++) {
if(lg[i]==0) {
index=i; found = 1;
break; }
if(found==0)
\max=lg[0]; index=0;
for(i=0;i<m;i++)
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if(max<lg[i])</pre>
max=lg[i];
index=i;
fr[index]=page[j]
; pf++; }
display(); }
printf("Number of page faults : %d\n", pf);
pr=(float)pf/n*100;
printf("Page fault rate = %f \n", pr);
void display()
{
int i;
for(i=0;i<m;i++)
printf("%d\t",fr[i]);
printf("\n"); }
OUTPUT:-pvg-aids-ml@pvgaidsml-HP-ProDesk-400-G4-SFF:~/Desktop/
harshada02$ gcc pract 6.c -o pract 6
pvg-aids-ml@pvgaidsml-HP-ProDesk-400-G4-SFF:~/Desktop/harshada02$
./
pract 6
Enter length of the reference string: 5
Enter the reference string: 3
2
4
Enter no of frames: 5
Number of page faults : -1
Page fault rate = 100.000000
```