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#include<stdio.h>
                                                        void fifo()
#include<stdlib.h>
int n,nf;
                                                        int j=0;
int ref[30]; int p[50]; int hit=0; int i, j=0, k;
                                                        initilize();
int pgfaultcnt=0;
                                                        printf("\tPAGE\tFRAMES\tFAULTS\n");
void getData()
                                                        for(i=0;i<n;i++)
printf("Enter length of page reference
                                                        printf("\n\t%d\t",ref[i]);
sequence:\n"); scanf("%d", &n);
                                                        if(ishit(ref[i])==0)
printf("Enter the number of frames:\n");
scanf("%d",&nf);
                                                           p[j]=ref[i]; j++;
printf("Enter the page reference sequence:\n");
                                                            dispages();
for(i=0;i<n;i++)
                                                           printf("\tpage fault %d",pgfaultcnt);
scanf("%d",&ref[i]);
                                                           pgfaultcnt++;
void initilize()
                                                        else
pgfaultcnt=0; for(i=0;i< nf;i++) p[i]=9999;
                                                           dispages();
                                                           printf("\tNo pages fault");
int ishit(int data)
                                                        if(i==nf)
hit=0; for(j=0;j<nf;j++)
                                                        \dot{1}=0;
if(p[j] == data)
                                                        printf("\nTotal no of page faults in FIFO is
                                                        %d",pgfaultcnt);
hit=1; break;
return hit:
void dispages()
for (k=0; k < nf; k++)
\{ if(p[k]!=9999) \}
printf("%d",p[k]);
void lru()
                                                        int main()
initilize();
                                                        int choice, yn; do
```

```
int least[50];
printf("\t PAGE\tFRAMES\tFAULTS\n");
                                                          printf("Page Replacement Algorithms\n"); printf("1. Enter
                                                          data 2. FIFO 3.LRU 4.Exit\n"); printf("Enter your
for(i=0;i<n;i++)
                                                           choice\n");
printf("\n\t%d\t", ref[i]);
                                                           scanf("%d", &choice);
if(ishit(ref[i])==0)
                                                           switch(choice)
for(j=0;j<nf;j++)
int pg=p[j]; int found=0;
                                                           case 1: getData();
for (k=i-1; k>=0; k--)
                                                          break;
                                                           case 2: fifo();
if(pq==ref[k])
                                                          break;
                                                           case 3: lru();
least[j]=k; found=1; break;
                                                          break:
                                                           case 4: exit(0);
else found=0;
                                                          printf("\n Do you want to continue?\n If yes press 1\n If
if(!found) least[j]=-9999;
                                                           no press 0\n"); scanf("%d",&yn);
int min=9999; int repindex; for (j=0; j < nf; j++)
                                                           while (yn==1); return (0);
if(least[j]<min)</pre>
min=least[j]; repindex=j;
p[repindex]=ref[i];
dispages();
printf("\tPage fault %d",pgfaultcnt); pgfaultcnt++;
else
dispages();
printf("\tNo page fault!");
printf("\n Total no of page faults in lru is:%d",
pgfaultcnt);
```