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| **Roll No.** :3545 **Date of Performance: -** |
| **Title :Page Replacement Algorithm Date of Checking: -** |

FIFO CODE -

//when u find the page then hit

//when there is no page avaialble in main memory then page fault

//find the page fault ratio and page hit ratio

//consider the 3 memory blocks

#include<stdio.h>

int search(int a, int \* p, int l)

{

int temp=0;

while(temp<l)

{

if(a==\*(p+temp))

{

return temp;

}

temp+=1;

}

return -1;

}

int main()

{

int n;

int temp=0;

int temp1;

int frame;

float hit=0;

float fault=0;

//page init and scan

printf("Enter the number of pages ");

scanf("%d",&n);

int a[n];

//frame init and scan

printf("\nEnter the number of frames ");

scanf("%d",&frame);

int f[frame];

for(int i=0;i<frame;i++)

{

f[i]=-1;

}

//input pages

printf("\nEnter the page values ");

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

{

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

}

//prints the frames

printf("Page\t\t");

for(int i=0;i<frame;i++)

{

printf("frame%d\t\t",i);

}

printf("HIT/FAULT\n");

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

{

//if the number is not present in the f array

if(search(a[i],f,frame)==-1)

{

//get the last index of f

temp1=temp%frame;

temp++;

//update that f in the array

f[temp1]=a[i];

//update the page fault

fault++;

//print the updated frames

printf("%d\t\t",a[i]);

for(int i=0;i<frame;i++)

{

printf("%d\t\t",f[i]);

}

printf("FAULT\n");

}

else

{

// do nothing just increment the hit

hit++;

//print the updated frames

printf("%d\t\t",a[i]);

for(int i=0;i<frame;i++)

{

printf("%d\t\t",f[i]);

}

printf("HIT\n");

}

}

printf("\nHit Ratio =%f\n",hit/n);

printf("Page Fault Ratio = %f\n",fault/n);

return 0;

}

