**Write a program to find the no of pagefault using FIFO page replacement algorithm**

**#include <stdio.h>**

**#define MAX\_SIZE 100**

**int main() {**

**int n, pages[MAX\_SIZE], frames[3] = {-1, -1, -1}, faults = 0, i, j, k, pos = 0, flag;**

**printf("Enter the number of pages: ");**

**scanf("%d", &n);**

**printf("Enter the page reference string: ");**

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

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

**}**

**printf("\nReference String: ");**

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

**printf("%d ", pages[i]);**

**}**

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

**flag = 0;**

**for (j = 0; j < 3; j++) {**

**if (frames[j] == pages[i]) {**

**flag = 1;**

**break;**

**}**

**}**

**if (flag == 0) {**

**frames[pos] = pages[i];**

**pos = (pos + 1) % 3;**

**faults++;**

**}**

**printf("\nFrame: ");**

**for (k = 0; k < 3; k++) {**

**printf("%d ", frames[k]);**

**}**

**}**

**printf("\n\nTotal Page Faults: %d\n", faults);**

**return 0;**

**}**

**Write a program to find the page fault using most frequently used page replacement algorithm**

**#include <stdio.h>**

**#define MAX 30**

**int main() {**

**int frames[MAX], pages[MAX], freq[MAX], index[MAX], num\_frames, num\_pages, page\_faults = 0, i, j, k, max\_index;**

**printf("Enter the number of frames: ");**

**scanf("%d", &num\_frames);**

**printf("Enter the number of pages: ");**

**scanf("%d", &num\_pages);**

**printf("Enter the page reference string: ");**

**for(i=0; i<num\_pages; i++)**

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

**// Initialize the frames with -1**

**for(i=0; i<num\_frames; i++)**

**frames[i] = -1;**

**for(i=0; i<num\_pages; i++) {**

**// Check if the page is already present in the frame**

**int flag = 0;**

**for(j=0; j<num\_frames; j++) {**

**if(frames[j] == pages[i]) {**

**flag = 1;**

**break;**

**}**

**}**

**if(flag == 0) {**

**// If the page is not present in the frame, find the page with the maximum frequency**

**for(j=0; j<num\_frames; j++) {**

**int temp = frames[j];**

**freq[j] = 0;**

**for(k=0; k<num\_pages; k++) {**

**if(temp == pages[k])**

**break;**

**freq[j]++;**

**}**

**}**

**max\_index = 0;**

**for(j=1; j<num\_frames; j++) {**

**if(freq[j] > freq[max\_index])**

**max\_index = j;**

**}**

**// Replace the page with the maximum frequency**

**frames[max\_index] = pages[i];**

**index[max\_index] = i;**

**page\_faults++;**

**}**

**// Print the frames after each page replacement**

**printf("\n");**

**for(j=0; j<num\_frames; j++)**

**{**

**printf("|%d|", frames[j]);**

**}**

**if(frames[2] == pages[i])**

**printf("\tPage fault for frame no. 3"); }**

**printf("\nTotal number of page faults: %d", page\_faults);**

**return 0;**

**}**