

FIFO PAGING

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#include <stdio.h>

int main() {
    int n, frames, pages[50], temp[10], count = 0, pageFaults = 0;
    int i, j, k;
    // Input number of pages
    printf("Enter number of pages: ");
    scanf("%d", &n);
    // Input reference string
    printf("Enter the reference string: ");
    for (i = 0; i < n; i++) {
        scanf("%d", &pages[i]);
    }
    // Input number of frames
    printf("Enter number of frames: ");
    scanf("%d", &frames);
    // Initialize frames with -1
    for (i = 0; i < frames; i++) {
        temp[i] = -1;
    }
    printf("\nPage Replacement Process (FIFO):\n");
    // Process each page
    for (i = 0; i < n; i++) {
        int flag = 0;
        // Check if page already in frame
        for (j = 0; j < frames; j++) {
            if (temp[j] == pages[i]) {
                flag = 1; // page hit
                break;
            }
        }
```

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    }
// If page not found -> page fault
    if (flag == 0) {
        temp[count] = pages[i];
        count = (count + 1) % frames;
        pageFaults++;
// Print current frame contents
        printf("For %d : ", pages[i]);
        for (k = 0; k < frames; k++) {
            if (temp[k] != -1)
                printf("%d ", temp[k]);
            else
                printf("- ");
        }
        printf("\n");
    }
}

printf("\nTotal Page Faults = %d\n", pageFaults);
return 0;
}

```