FIFO

#include <stdio.h>

#define MAX\_FRAMES 3

int main()

{

int frames[MAX\_FRAMES], page\_faults = 0, num\_frames = 0, num\_pages = 8;

int page\_references[] = {4, 1, 2, 4, 3, 2, 1, 5};

int i, j, k;

for (i = 0; i < MAX\_FRAMES; i++)

{

frames[i] = -1;

}

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

{

int page = page\_references[i];

int page\_found = 0;

for (j = 0; j < MAX\_FRAMES; j++)

{

if (frames[j] == page)

{

page\_found = 1;

break;

}

}

if (!page\_found)

{

frames[num\_frames % MAX\_FRAMES] = page;

num\_frames++;

page\_faults++;

}

printf("Page %d: [", page);

for (k = 0; k < MAX\_FRAMES; k++)

{

if (frames[k] == -1)

{

printf(" ");

} else {

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

}

if (k < MAX\_FRAMES - 1)

{

printf("|");

}

}

printf("]\n");

}

printf("Total page faults: %d\n", page\_faults);

return 0;

}

OUTPUT:

