PAGE REPLACEMENT ALGORITHM

PROGRAM:

#include<stdio.h>

int main()

{

int incomingStream[] = {4 , 1 , 2 , 4 , 3, 2 , 1, 5};

int pageFaults = 0;

int frames = 3;

int m, n, s, pages;

pages = sizeof(incomingStream)/sizeof(incomingStream[0]);

printf(" Incoming \ t Frame 1 \ t Frame 2 \ t Frame 3 ");

int temp[ frames ];

for(m = 0; m < frames; m++)

{

temp[m] = -1;

}

for(m = 0; m < pages; m++)

{

s = 0;

for(n = 0; n < frames; n++)

{

if(incomingStream[m] == temp[n])

{

s++;

pageFaults--;

}

}

pageFaults++;

if((pageFaults <= frames) && (s == 0))

{

temp[m] = incomingStream[m];

}

else if(s == 0)

{

temp[(pageFaults - 1) % frames] = incomingStream[m];

}

printf("\n");

printf("%d\t\t\t",incomingStream[m]);

for(n = 0; n < frames; n++)

{

if(temp[n] != -1)

printf(" %d\t\t\t", temp[n]);

else

printf(" - \t\t\t");

}

}

printf("\nTotal Page Faults:\t%d\n", pageFaults);

return 0;

}

OUTPUT:

