2. 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;

}

