Write a C program to simulate Page-replacement algorithm FIFO.

```
#include<stdio.h>
int main(){
int PageFaults=0, frames;
printf("Enter the no of frames : ");
scanf("%d", &frames);
int incomingStream[100], pages;
printf("Enter the no of pages in the incoming stream : ");
scanf("%d", &incomingStream[i]);
printf("Enter the incoming page stream : \n");
for(int i=0; i<pages; i++)
  scanf("%d", &incomingstream[i]);
printf("Incoming \t Frame 1 \t Frame 2 \t Frame 3");
int temp[frames];
for(int m=0; m<frames; m++){
    temp[m] = -1;
for(int m=0; m<pages; m++){
  int s=0;
  for(int n=0; n<frame; 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] = incoming stream[n];

printf("\n");
printf("%d\t\t", incoming stream[n]);
for (int n=0; n<frames; n++) {
    if (temp[n] != -1)
        printf("%d\t\t", temp[n]);
    else
        printf("-\t\t");
}
printf("\n\nTotal page faults : %d\n", pagefault);
return 0;
}
```

Output :

Enter the no of frames : 2

Enter the no of pages in incoming stream : 5

Enter the incoming page stream :

1
2
3
4
1

Incoming	Frame 1	Frame 2
1	1	-
2	1	2
3	3	2
4	3	4
1	1	4

Total no page faults : 4

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