```c
#include<stdio.h>
int findLRU(int time[], int n){
int i, minimum = time[0], pos = 0;
for(i = 1; i < n; ++i){
if(time[i] < minimum){
minimum = time[i];
pos = i;
}
}
return pos;
}
int main()
{
int no_of_frames, no_of_pages, frames[10], pages[30], counter = 0, time[10], flag1, flag2, i, j, pos, fault
printf("Enter number of frames: ");
scanf("%d", &no_of_frames);
printf("Enter number of pages: ");
scanf("%d", &no_of_pages);
printf("Enter reference string: ");
for(i = 0; i < no_of_pages; ++i){
scanf("%d", &pages[i]);
}
for(i = 0; i < no_of_frames; ++i){
frames[i] = -1;
}
```

main.c

```
for(i = 0; i < no_of_pages; ++i){
flag1 = flag2 = 0;
for(j = 0; j < no_of_frames; ++j){
if(frames[j] == pages[i]){
counter++;
time[j] = counter;
flag1 = flag2 = 1;
break;
}
}
if(flag1 == 0){
for(j = 0; j < no_of_frames; ++j){if(frames[j] == -1){
counter++;
faults++;
frames[j] = pages[i];
time[j] = counter;
flag2 = 1;
break;
}
}
}
if(flag2 == 0){
pos = findLRU(time, no_of_frames);
counter++;
faults++;
frames[pos] = pages[i];
```

main.c

```
60  time[pos] = counter;
61  }
62  printf("\n");
63  for(j = 0; j < no_of_frames; ++j){
64  printf("%d\t", frames[j]);
65  }
66  }
67  printf("\n\nTotal Page Faults = %d", faults);return 0;
68  }
69
```

input

```
Enter number of frames: 3
Enter number of pages: 4
Enter reference string: 2
3
5
1

2       -1      -1
2       3       -1
2       3       5
1       3       5

Total Page Faults = 4

...Program finished with exit code 0
Press ENTER to exit console.
```