```
#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)</pre>
{
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,
faults = 0;
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)</pre>
        {
  scanf("%d", &pages[i]);
  }
for(i = 0; i < no_of_frames; ++i){
   frames[i] = -1;
  }
  for(i = 0; i < no_of_pages; ++i)</pre>
```

```
{
  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++;
```