```c
#include<stdio.h>
int main()
{
 int no_of_frames, no_of_pages, frames[10], pages[30], temp[10], flag1, flag2, flag3, i, j, k, pos, max, faults =
0;
 printf("Enter number of frames: ");
 scanf("%d", &no_of_frames);

 printf("Enter number of pages: ");
 scanf("%d", &no_of_pages);

 printf("Enter page 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;
 }

 for(i = 0; i < no_of_pages; ++i){
flag1 = flag2 = 0;

 for(j = 0; j < no_of_frames; ++j){
if(frames[j] == pages[i]){
flag1 = flag2 = 1;
break;
 }
 }

 if(flag1 == 0){
for(j = 0; j < no_of_frames; ++j){
if(frames[j] == -1){
faults++;
```

```
frames[j] = pages[i];

flag2 = 1;

break;

}

}

}


if(flag2 == 0){

flag3 =0;


for(j = 0; j < no_of_frames; ++j){

temp[j] = -1;


for(k = i + 1; k < no_of_pages; ++k){

if(frames[j] == pages[k]){

temp[j] = k;

break;

}

}

}


for(j = 0; j < no_of_frames; ++j){

if(temp[j] == -1){

pos = j;

flag3 = 1;

break;

}

}


if(flag3 ==0){

max = temp[0];

pos = 0;


for(j = 1; j < no_of_frames; ++j){

if(temp[j] > max){
```

```c
max = temp[j];

pos = j;

}

}

}

frames[pos] = pages[i];

faults++;

}


printf("\n");


for(j = 0; j < no_of_frames; ++j){

printf("%d\t", frames[j]);

}

}


printf("\n\nTotal Page Faults = %d", faults);


return 0;

}
```