

```

#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){
                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;  
}
```