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// Batch : A3
// Roll No. : 65
// Class(Sec.) : TE(A)

#include<stdio.h>
#include<conio.h>

main()
{
    int i, j, k, f, pf=0, count=0, rs[25], m[10], n;
    printf("\n Enter the length of reference string -- ");
    scanf("%d",&n);
    printf("\n Enter the reference string -- ");
    for(i=0;i<n;i++)
        scanf("%d",&rs[i]);
    printf("\n Enter no. of frames -- ");
    scanf("%d",&f);
    for(i=0;i<f;i++)
        m[i]=-1;
    printf("\n The Page Replacement Process is -- \n");
    for(i=0;i<n;i++)
    {
        for(k=0;k<f;k++)
        {
            if(m[k]==rs[i])
                break;
        }
        if(k==f)
        {
            m[count++]=rs[i];
            pf++;
        }
        for(j=0;j<f;j++)
            printf("\t%d",m[j]); if(k==f)
            printf("\tPF No. %d",pf); printf("\n"); if(count==f)
            count=0;
    } printf("\n The number of Page Faults using FIFO are %d",pf);
    getch();
}

//Output :-
// Enter the length of reference string -- 5
//
// Enter the reference string -- 1 2 3 4 5
//
// Enter no. of frames -- 4
//
// The Page Replacement Process is --
//      1      -1      -1      -1      PF No. 1
//      1       2      -1      -1      PF No. 2
//      1       2       3      -1      PF No. 3
//      1       2       3       4      PF No. 4
//      5       2       3       4      PF No. 5
//
// The number of Page Faults using FIFO are 5
// .....
//Process exited after 262.7 seconds with return value 0
//Press any key to continue . . .

```