```
#include<stdio.h>
struct frmnode
        int pno;
} frames[20];
int n;
int page_found(int pno)
{
        int fno;
        for(fno = 0; fno < n; fno++)
                if(frames[fno].pno == pno)
                         return fno;
        return -1;
}
int get_free_frame()
{
        int fno;
        for(fno = 0; fno < n; fno++)
                if(frames[fno].pno == -1)
                         return fno;
        return -1;
}
int get_fifo_frame()
{
        static int fno = -1;
        fno = (fno + 1) % n;
        return fno;
}
void main()
        int p_request[] = {12, 15, 12, 18, 6, 8, 11, 12, 19, 12, 6, 8, 12, 15, 19,
8};
        int size = 16;
        int page_falts = 0, i, j, fno;
        printf("How many frames : ");
        scanf("%d", &n);
        for(i = 0; i < n; i++)
                frames[i].pno = -1;
        printf("\nPage No\t\tPage Fault\tPage Frames");
```

```
printf("\n----");
for(i = 0; i < size; i++)</pre>
       j = page_found(p_request[i]);
       if(j == -1)
              page_falts++;
              j = get_free_frame();
              if(j == -1)
                     j = get_fifo_frame();
              frames[j].pno = p_request[i];
              printf("\n%d\t\tYES\t", p_request[i]);
       }
       else
              printf("\n%d\t\tNO\t", p_request[i]);
       for(fno = 0; fno < n; fno++)
              printf("\t%d", frames[fno].pno);
}
printf("\n-----");
printf("\nTotal no of page faults : %d\n", page_falts);
```

}