```
#include <stdio.h>
struct frmnode
        int pno, freq;
} 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_mfu_frame()
        int fno, selfno = 0;
        for (fno = 1; fno < n; fno++)
                if (frames[fno].freq > frames[selfno].freq)
                         selfno = fno;
        return selfno;
}
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;
              frames[i].freq = 0;
       }
       printf("\nPage No\t\tPage Fault\tPage Frames");
       printf("\n----");
       for (i = 0; i < size; i++)
              j = page_found(p_request[i]);
              if (j == -1)
                      page_falts++;
                      j = get_free_frame();
                      if (j == -1)
                             j = get_mfu_frame();
                      frames[j].pno = p_request[i];
                      frames[j].freq = 1;
                      printf("\n%d\t\tYES\t", p_request[i]);
              }
              else
              {
                      frames[j].freq++;
                      printf("\n%d\t\tNO\t", p_request[i]);
              for (fno = 0; fno < n; fno++)
                      printf("\t%d : %d\t", frames[fno].pno, frames[fno].freq);
       }
       printf("\n-----");
       printf("\nTotal no of page faults : %d\n", page_falts);
}
```