```
#include<stdio.h>
int main()
 int n, f, i, j, min, pf = 0, next = 1;
 int m[25], count[25], flag[50], rs[50];
 printf("\nLRU PAGE REPLACEMENT\n");
 printf("ENTER NUMBER OF PAGES: ");
 scanf("%d",&n);
 printf("ENTER THE REFERENCE STRING: ");
 for (i = 0; i < n; i++)
 {
   scanf("%d",&rs[i]);
 printf("ENTER THE NUMBER OF FRAMES: ");
 scanf("%d", &f);
 for (i = 0; i < n; i++)
   flag[i] = 0;
 for (i = 0; i < f; i++)
   count[i] = 0;
   m[i] = -1;
 printf("\nLRU PAGE REPLACEMENT --\n");
 for (i = 0; i < n; i++)
 {
   for (j = 0; j < f; j++)
    if (m[j] == rs[i])
      flag[i] = 1;
      count[j] = next++;
   if (flag[i] == 0)
    if (i < f)
      m[i] = rs[i];
      count[i] = next++;
    else
      min = 0;
      for (j = 1; j < f; j++)
        if (count[min] > count[j])
          min = j;
      m[min] = rs[i];
      count[min] = next++;
    pf++;
   for (j = 0; j < f; j++)
   printf("%d\t", m[j]);
if (flag[i] == 0)
    printf("HIT");
   else
    printf("MISS");
   printf("\n");
 printf("\nPAGE FAULT: %d\n", pf);
 printf("HIT RATIO: %d%%\n", ((n - pf) * 100) / n);
 return 0;
                     }
```