```
Ex. No.: 11 b
  Date: 4.5.24
                                        LRU
  Aim:
        To write a c program to implement LRU page replacement algorithm.
  Algorithm:
  1: Start the process
  2: Declare the size
  3: Get the number of pages to be inserted
  4: Get the value
  5: Declare counter and stack
  6: Select the least recently used page by counter value
  7: Stack them according the selection.
  8: Display the values
  9: Stop the process
   Program Code: // wv. C
#include (stdio. 4)
int find LRU ( int time [], int 10) {
             int i, min = time (0), pos = 0;
              Por (i=1; i < n; ++i) {
                         if ( time [i] < min) &
                                      min = time [i];
                                      pos = 1;
                         POS;
               return
   int maines &
         int no_of-frames, no_of_pages, for counter=0, flag 2, flag 2, pos ii, j, faults=0;
         count of printf (" Enter no of frames: ");
                scanf ("Id", &framno_of_frames);
                  printf ("Enter no of 67 pages: ");
                  sant (" 1.d", eno_ of_pages);
                  int frames (no-of-frames), pages (no-of-pages), time [no-of-frames]
          fortizoriene of Someritty
                  Printf(" Enter reference string: ");
                For U=0; ikno-of-pages; i++) & scanf("1.d", & pages(i))))
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よししとし とこと ならなら からしょ

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for (=0; Kno-&-frames; H+) &
          frames CiJ = -1;
for li=0; i < no_of_pages; ++i) {
         flag 1 = flag 2 = 0;
          for G=0; Kno-of-frames; ++j) 2
                     if (frames ()] == pager (i)) {
                               counter++;
                               time GJ = Lounter;
                                ftag 2 = ftag 2 = 1;
                                break;
          if (flag==0) {
                for (j=0; j < no - of - frames; j+j) &
                         if (framer (j) == -1) {
                                  counter++;
                                   faults++;
                                   frams(j]= pages(i];
                                 time (j) = wunter;
                                  frag2 = 1;
                                 break;
if (Hag 2 == 0) {
          101: find LRU (fine, no-of-frames);
           compr ++;
           faults ++
           framespost = pagusci];
           time c pos) = winter;
     printf("In");
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for G=0; Kno-of frames; ++j) {
                     prittl" 1.d\t", frames (j]);
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printf ("In In Total Page Faults = 1.d in", faults); Output

> gaczini.c ·/a-out

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Enter no of frames: 3

enter no or pages:

anter reference string: 575673

5 -1

5 7

5 7

5 7

5 7

3 7

Total page faults = 4

RESUT:

The program vas been compiled and executed successfully.

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