PAGE NO.: The page replacement Algorithm: FIFO, Optimal & LRU #include (stdio.n) Size #include < stdlib.h> void print Frames (int frames [], int n, (onst char \* msg) {

for (int i=0; i<n; i+1) {

if (frames [i] ==-1) { 2 point ("-"); ? print ("1.d", frames [:]); print ("1.5 \n", msg); void filo (int pages [], int n, int frames [], int frame int front=0, faults=0;
print (" The page Replacement Process for FIFO
is; In"); for (int 1=0; 12n; 1+){

int found=0; for (int j=0; z frame count; j++) {

if (frames [j] = = pages [i]) {

found=1;

break; if (! found){

frames [front] = pages [i];

front = (front +1) -1. frame (ount;

faults + 4; Galaxy F54 5G

PAGE NO.: char msg (20);
snpring (msg, size of (msg), "PF NO. 1/d",
faults);
print frames (frames, frame court, msg); clse {
point frames (frames, frame(ound, "); print [" The nor of page faults using FIFO are locu(Int pages [], int n, int frames [], int frame court Id int time[frame cound], faults=0, counter=0;
print[("The page replacement process for LRU is:
\n"); for [int i = 0; {< frame (ount; i++) {
 frames [i] = -1;
 time [i] = -1;
} for (int i=0; izn; i+) {

int found =0; least = counter; for (int j=0; j < frame count; j++ ) \( \)

if (frame (j) -= pages (i)) \( \)

found = 1;

time (j) = counter ++;

break; if (time (j) < least) {
 least = time(j); F5456

PAGE NO.: DATE / / if (yound) {
int suplace =0; frames [ruplace] = pagus [i];

tomu [ruplace] = Counter ++;

faults ++;

Chan msg [20];

sn printf (ms, 9, sizeof (msg), "PF No. 7.d",

faults);

printframes (frames, frame count, msg); else {
print frames (frames, frame ount, ""); print (" The non of page faults using LRV one optimal (int pages [], int n, int frames [7, int fr for (int = 0; i < n; i+) { int found = 0; for (int ;=0; ; 2 frame: ount; j++){ if (frames[]) == pages [i]){ axy F54 5G

PAGE NO.: DATE / / found = 1; if [ ] found ) {

int & replace = -1, farther t = i;

for (int j = 0; ) e for an count; j++) {

int next use = n; for (int k = i+1; K<n; k++){ if (frames [j] = = pages (KT) {

nulls( = K; break ; if (nent Use rfarthes+) {

farthes t = nent Use;

rep (a a = ); if (replace ==-1){ ruplace = 0; frames [sup (a ce) = pages 517; faults + +; Chor nus [20]; snport (msg, size of (msg), "PF no. 1-d", faults); 3, printer ames (frames, frame wunt ons 9); else { print frames (" The nor of page faults using aptimal are & r. d In", faults);

PAGE NO.: DATE / / int main () { int no frame court; point (benter nor of frames;");
scans ("1.d", & plame count);
prival (" Enter nor of pages;");
scans ("1.d", & n); int pages (n), frames [frame(ount];

print [" Enter page reference sequence:"];

for Out i=0; izn; i+1);

scanf [" 1.d", xpages [i]); prival (" FIFO: \n"); for (int 1=0; 12 frame(ount; 1++) {

frames [i] = -1; fifo ( pages, n, frames, frame ount); print [" LRU: \n"); for (int izo; i < frame count; i++) { frames [i]=-1; Dru (pages, n, frames, framecount); print (" Optimal: |n");

fort (int 1=0; i & prame count; i++) {

frames [i]=1; optimal (pages, n, frame, frame out); return 0; F545G

PAGE NO.: DATE / / -> Output: Enter non of frames: 3
Enter non of pages: 7
Enter page reference sequence: 1 3 0 3 5 6 3 FIFO: The page replacement Process for FIFO is: 1 -- PF NO.1 13 - PF NO, 2 130 PF NO.3 130 530 PFNO. 4 560 PFNO. 5 563 FNO. 6 The nor of Page Faults using FIFO are 6 LRU: The page replacement process for LRV is PE NO. 1 13 - PF NO. 2 130 PF NO. 3 130 530 PF No.4 536 PF No.5 536 Page faults = 5 Optimal: PF No.1 laxy F545G \_ pf No.2 30- PF No. 3

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