OPERATING SYSTEM - CS23431

EXP 11(B)

LRU PAGE REPLACEMENT

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PROGRAM:

#include <stdio.h>

int main() { int n,frame\_size,count=0,page\_faults=0; printf("Enter size of reference string: "); scanf("%d",&n); int page[n]; for(int i=0;i<n;i++)

{ printf("Enter [%d]: ",i+1); scanf("%d",&page[i]);

}

printf("Enter page frame size: "); scanf("%d",&frame\_size); int mem[frame\_size]; for (int i = 0; i < n; i++) { int top = -1; int f=0; for (int j = 0; j < count; j++) { if (mem[j] == page[i]) { top = j; break;

}

}

printf("%d -> ", page[i]); if (top!=-1) { for(int j=0;j<count-1;j++)

{

mem[j]=mem[j+1];

}

mem[count-1]=page[i];

printf("No page fault\n");

} else { f=1; if(count<frame\_size)

{

mem[count++]=page[i];

} else

{

for(int j=0;j<frame\_size;j++)

{

mem[j]=mem[j+1];

}

mem[frame\_size-1]=page[i];

}

page\_faults++;

} if(f) for (int j = 0; j < count; j++) { printf("%d ", mem[j]);

} printf("\n");

}

printf("\nTotal Page Faults: %d\n", page\_faults); return 0;

}

OUTPUT:

