## OPERATING SYSTEM - CS23431 EXP 11(a) FIFO

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PROGRAM:
#include <stdio.h>
int main() {
  int n,frame size,front=0,count=0,page faults=0;
  printf("Enter size of reference string: ");
  scanf("%d",&n);
  int pages[n];
  for(int i=0;i<n;i++)
     printf("Enter [%d]: ",i+1);
     scanf("%d",&pages[i]);
  printf("Enter page frame size: ");
  scanf("%d",&frame_size);
  int mem[frame size];
  for (int i = 0; i < n; i++) {
     int found = 0;
     for (int j = 0; j < count; j++) {
       if(mem[j] == pages[i]) {
          found = 1;
         break;
     }
     printf("%d -> ", pages[i]);
     int f=1;
    if (!found) {
       if (count < frame size) {
          mem[count++] = pages[i];
       } else {
         mem[front] = pages[i];
         front = (front + 1) % frame size;
       page faults++;
```

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else
     {
       f=0;
       printf("No Page Fault ");
     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:
Enter size of reference string: 7
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Enter [1]: 7
Enter [2]: 0
Enter [3]: 1
Enter [4]: 2
Enter [5]: 0
Enter [6]: 3
Enter [7]: 0
Enter page frame size: 3
0 -> 7 0
1 -> 7 0 1
2 -> 2 0 1
0 -> No Page Fault
3 -> 2 3 1
0 -> 2 3 0
Total Page Faults: 6
```