#### Comment:

1.ln my code, I define page frames as a macro. When need to change page frame size, it need to queue.h,clock.h, Iru.h. #define max\_length 2

## Comment:

I write 2 array,3 algorithm calling in main.c file. So when just need to run an algorithm, other algorithm calling need to be commented.

For example, I want to run Array 1 fifo algorithm.

printf("arr1 fifo page replacement need %d page fault\n", count);
//printf("arr1 clock page replacement need %d page fault\n", clock(arr1, n1));
//printf("arr1 lru page replacement need %d page fault\n", lru(arr1, n1));
//printf("arr2 fifo page replacement need %d page fault\n", count);
//printf("arr2 clock page replacement need %d page fault\n", clock(arr2, n2));
//printf("arr2 lru page replacement need %d page fault\n", lru(arr2, n2));

## Array 1 3 page frames fifo algor:

```
→ pageReplacement gcc lru.c queue.c clock.c main.c -o page_replacement
→ pageReplacement ./page_replacement
n1 = 12, n2 = 20
arr1 fifo page replacement need 9 page fault
→ pageReplacement
```

```
→ pageReplacement ./page_replacement
n1 = 12, n2 = 20
arr1 clock page replacement need 8 page fault
→ pageReplacement
```

# Array 1 3 page frames Iru algor:

```
→ pageReplacement ./page_replacement
n1 = 12, n2 = 20
arr1 lru page replacement need 8 page fault
→ pageReplacement
```

Array 2. 3 page frames fifo algor:

```
→ pageReplacement ./page_replacement
n1 = 12, n2 = 20
arr2 fifo page replacement need 15 page fault
→ pageReplacement
```

Array 2. 3 page frames clock algor:

```
→ pageReplacement ./page_replacement
n1 = 12, n2 = 20
arr2 clock page replacement need 14 page fault
→ pageReplacement
```

Array 2. 3 page frames Iru algor:

```
→ pageReplacement ./page_replacement
n1 = 12, n2 = 20
arr2 lru page replacement need 11 page fault
→ pageReplacement
```

## Array 1 2 page frames fifo algor:

```
→ pageReplacement ./page_replacement
n1 = 12, n2 = 20
arr1 fifo page replacement need 10 page fault
→ pageReplacement
```

Array 1 2 page frames clock algor:

```
→ pageReplacement gcc lru.c queue.c clock.c main.c -o page_replacement
→ pageReplacement ./page_replacement
n1 = 12, n2 = 20
arr1 clock page replacement need 10 page fault
→ pageReplacement
```

Array 1 2 page frames Iru algor:

```
pageReplacement gcc lru.c queue.c clock.c main.c -o page_replacement
pageReplacement ./page_replacement
n1 = 12, n2 = 20
arr1 lru page replacement need 10 page fault
pageReplacement
```

## Array 2 2 page frames fifo algor:

```
→ pageReplacement gcc lru.c queue.c clock.c main.c -o page_replacement
→ pageReplacement ./page_replacement
n1 = 12, n2 = 20
arr2 fifo page replacement need 15 page fault
→ pageReplacement
```

# Array 2 2 page frames clock algor:

```
→ pageReplacement
→ pageReplacement gcc lru.c queue.c clock.c main.c -o page_replacement
→ pageReplacement ./page_replacement
n1 = 12, n2 = 20
arr2 clock page replacement need 15 page fault
→ pageReplacement
```

# Array 2 2 page frames Iru algor:

```
→ pageReplacement gcc lru.c queue.c clock.c main.c -o page_replacement
→ pageReplacement ./page_replacement
n1 = 12, n2 = 20
arr2 lru page replacement need 15 page fault
→ pageReplacement
```