FIFO Page Replacement

```
//fifo page replacement
\#include < stdio.h >
\#include < stdlib. h >
\#include < string.h>
int search (char c);
void enq(char p);
void display();
int k=-1;
char a1 [20];
char a2 [20];
int pFault=0;
int pFrame;
main()
  int f=0,i,n;
  char s;
  printf("enter reference string\n");
  __fpurge(stdin);
  gets(a1);
  printf("Enter the number of pages frames\n");
  scanf ("%d",&pFrame);
  for (i=0; i < pFrame; i++)
    a2[i]=', ';
  for(i=0;i<strlen(a1);i++)
    if (a1 [i]!=',')
    f = \operatorname{search}(a1[i]);
    if(f==0)
      enq(a1[i]);
    display();
    f = 0;
    }
  printf("-----\n");
  printf("Total no of page fault=%d\n",pFault);
int search (char c)
  int s;
```

```
for(s=0;s<pFrame;s++)
    if (a2 [s] == c)
      return(1);
      break;
  if (s==pFrame)
    return(0);
}
void enq(char p)
  a2[(k+1)\%pFrame] = p;
  k=(k+1)\%pFrame;
  pFault++;
void display()
  int j;
  printf("-----
                         ——\n");
  for(j=0; j < pFrame; j++)
    printf("%c\t",a2[j]);
  printf("\t\tPage fault=%d", pFault);
  printf("\n");
}
Output
42813@user:/mnt/42813/oslab$ ./fif
enter reference string
12323456
Enter the number of pages frames
1 _ _
          Page fault=1
1 \quad 2 \quad _{-}
          Page fault=2
1 2 3
          Page fault=3
1 2 3
          Page fault=3
          Page fault=3
1 2 3
```

4 2	3	Page	fault=4
4 5	3	Page	fault=5
4 5	6	Page	fault=6

Total no of page fault=6