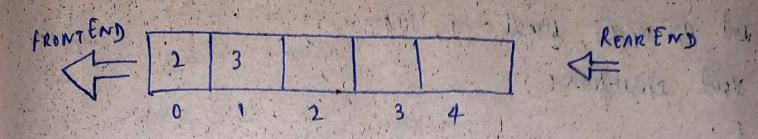
```
24-07-2024
Conditional compilization preprocessor devectives := 1 1
          Always ends with # endib
             # ifdet
                                    to the fact of
 # 4
 # else
                                     沙山下 超 1+ 12
-> main ()
                                         Self referenting
  int a=5, b=6, c;
    # ifdef add
                                                   - Loqued linear &s
                                                    touil linted in
     c = add (a, b)
                                         while the
     windf ("1.d", c);
                                                      it ( front == )
   # endit
                                                      juste invene
                                                       wird damin
APPLICATIONS OF STACK ?-
                                                        detation about
                                                       pront invival
-> Recurering () calls
                                                       pront = -1
 -> Enfin to Portfin Conversion
                                                      aune entry
                                                       W= 9 Cfund)
-> Enfin to Prefix Conversion
                                              2.11
-> Portfin enpression evaluation
                                                     2 front; (= just)
 - Prefix expression evaluation
 > trues 4 Graphs traversal
```

self referenting Logical linear &s it front=0 Juste moreare miest elemin Setation demit front moved pront = - 1 sure entry u = 9 c pront for (12 banding (= ling)



-> access is a linear data structure. In this elements we inserted from 1 end called Rear End & detected from another end called front End.

Carlo Charles Charles Con

Minister William

- -> It operates on the brunishle of FIFO
 - > FRONT is a pointer which always points 1st element in the a queue, whereas a EAR is a pointer which always points

Lust element in a queue.

OPERATIONS ON LINEAR QUEUE=>

*1. Insertion [enqueur]

2. DELETION [Sequene]

```
> # define man 5
               int qc man], pront = -1, rear = -1;
                   Void insurtion ()
                               int elen;
                                   if (ruan == man-i)
print (" full")
                                                                                              the control on
                         The state of the s
                                                                                                                                 A. 162 为《就主》的
                                                          frantf (" été enter ele ");
                                                            scanf (" 1.0", 4:de);
                                                               rear ++
                                                                                                    ing driving a con-
                                                            ar [rear] = ele;
                                                                uf (front = = -1)
                                                                                                                                                     5-11-12
                                                          front = 0;
                       void deletion ()
                                                  int k;
                                                    if ( front ==-1)
                                                       f point ("empty");
                                                          else
```

```
v= or [ front ];
  it (front = = rear)
   front = rear = -1;
                       -> front ++;
    print ("Delented element is ".d", ");
void display ()
    for (i=front; i = rear; i++)
     print (" 1.0", q (i));
main ()
   end ch;
   while (1)
      printf ("enter 1 for involver 1 m 2 for deletion in
              3 for display of 1 m & for enit ");
      scarif ("7. d", 4th);
      switch (ch)
          case 1: insertion (); brush;
          case 2: deletion (1; brian;
           cose 3: dieplay (); break;
         cax 4; exit (0);
```