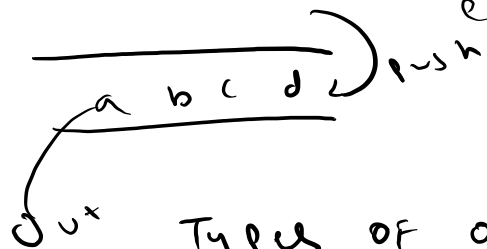


stores a list of items in which
an item can be inserted
at one end & removed from
end.



Types of operation
in queue:

enqueue

→ push () → from end

→ pop () → front

→ front () →

→ peek ()

peek

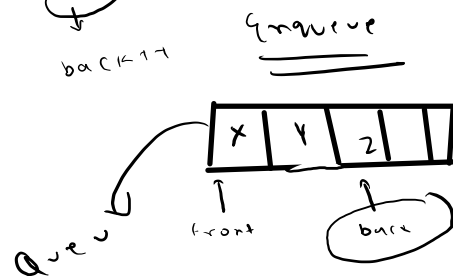
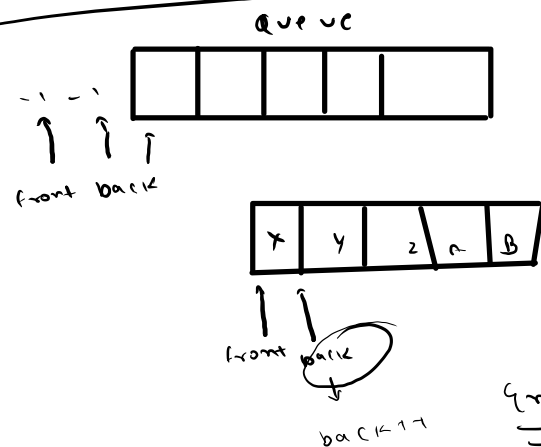
```

int main() {
    queue <string> q;
    q.push("abc");
    q.push("cde");
    while (!q.empty()) {
        cout << q.front() << endl;
        q.pop();
    }
}

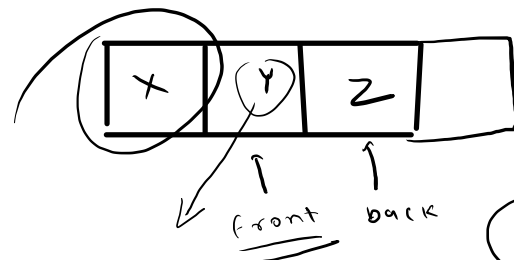
```

0. q1
 1. 4
 2. 3
 3. 2
 4. 1

Operation in a queue:-



dequeue
FIFO



peek() will output the element which is on the front pointer

empty()

if (front == -1 || front > back)

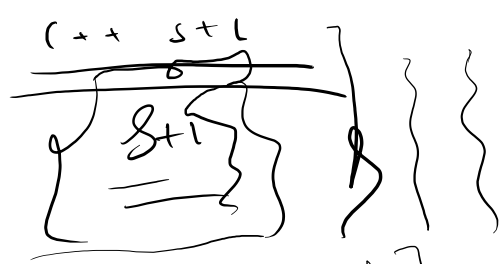
cout << "Queue empty" << endl;

Queue overflow

Operations:

enqueue()
dequeue()
peek()
empty()

Array
implement
queue



array [s]

3

{ C++
vectors }

#include <bits/stdc++.h>
using namespace std;

int main () {

vector<int> V(n);
for (int i=0; i<n; i++)
{
cin >> V[i];
}

int main () {

vector<int> V1;

for (int i=1; i<=5; i++)
V1.push_back(i);

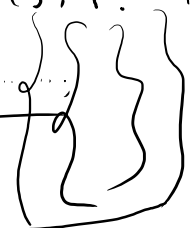
cout << "Print begin to end" << endl;

for (auto i = V1.begin(); i != V1.end(); i++)
{

cout << *i << " ";

return 0;

3



arr a[]

(1, 2, 3, 4, 5)

reverse (s.begin(), s.end())

palindrome

string s = "abba";

string rev;
reverse (s.begin(), s.end());

if (s == rev)

yes = pair