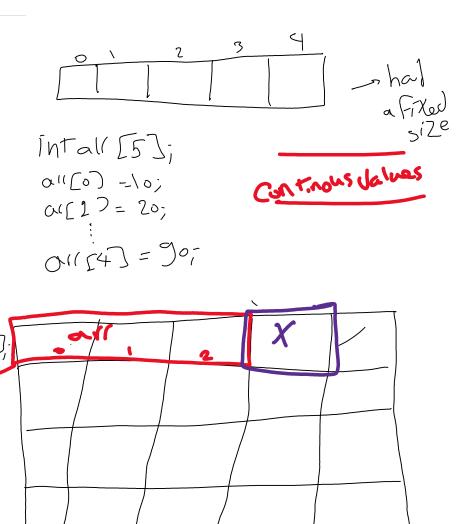
Thursday, March 3, 2022 8:24 PM



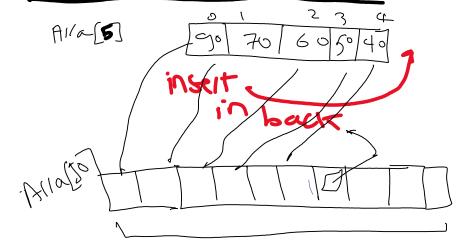
neroly a Ren " of locker"

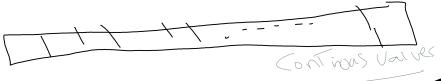
Concept

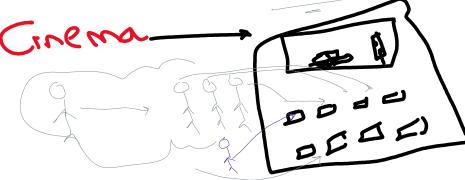
Stack: Life - Last input First output

queve: FIFO -> Filst input filst output

Dynamic Allays " Vectors"





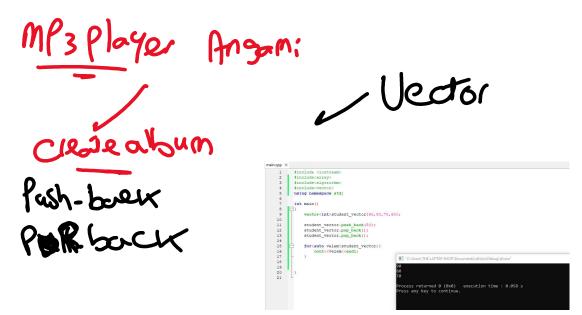


```
main.cpp ×
           #include<array>
           #include<algorithm>
           using namespace std;
           int main()
                array<int ,5>student_array;
    10
    11
                student_array[1]=80;
    12
               student_array[2]=70;
    13
               student array[3]=20;
    14
15
               student_array[4]=100;
    16
17
    18
    19
20
                cout<<"Array .front:"<<student_array.front()<<endl;</pre>
                cout<<"Array .back:"<<student_array.back()<<endl;
    21
    22
               cout<<"The first address: "<<student array.begin()<<endl:
   23
               cout<<"Last address:"<<student_array.end()<<endl;</pre>
    24
    25
                for(auto iter=student_array.begin();iter!=student_array.end();iter++)(
    26
27
28
    29
30
               for (auto elem: student_array) {
                    cout<<elem<<endl:
    31
    32
    33
    34
35
                cout<<"Sorting "<<endl;
    36
37
                sort(student_array.begin(),student_array.end());
               for(auto elem:student_array){
    38
                    cout<<elem<<endl:
```

cont<<student_array.at(0)<<endl; cout<<student_array.size()<<endl;

Serioh (M) riville to (M) riville to

```
#include <iostream>
#include<array>
#include<algorithm>
using namespace std;
int main()
    array<int ,5>student_array{1,2,3};
    student array[0]=90;
    student array[1]=80;
    student array[2]=70;
    student array[3]=20;
    student_array[4]=100;
    reverse(student_array.begin(),student_array.end());
   for (auto elem: student_array) (
                               "C:\Users\THE LAPTOP SHOP\Documents\stl\bin\Debug\stl.exe
                                rocess returned 0 (0x0) execution time : 0.025 s
                                ress any key to continue
```



```
#include <iostream>
       #include <algorithm>
       #include <vector>
       using namespace std;
           vector<int>student_vector{90,80,70,60};
10
           cont<<student vector.capacity()<<endl;
11
12
           student_vector.push_back(50);
13
           cout<<student_vector.capacity()<<endl;
14
15
16
17
18
19
                "C:\Users\THE LAPTOP SHOP\Documents\stl\bin\Debug\stl.exe"
20
                 ress any key to continue
```

Deque we have to additional functions Push_front and pop_front