

```

/*****
*
* Author:      Miklos Moreno
* Email:      miklosam1999@gmail.com
* Label:      P01
* Title:      Basic Project Organization
* Course:     CMPS 2143
* Semester:   Fall 2021
*
* Description:
*      Creating a class that utilizes more functions and quality of life
*      overloads to make a more robust class.
*
* Usage:
*      cool shit
*
* Files:      main.cpp
*             myVec.hpp
*****/

#include <iostream>
#include <string>
#include <fstream>
#include "myVec.hpp"

int main()
{
    ofstream ofile;
    ofile.open("test.out");
    ofile << "Miklos Moreno" << endl
           << "September 10, 2021"
           << endl
           << "OOP 2143 Fall 2021" << endl
           << endl;

    int x = 0;

    MyVector v1;
    v1.pushFront(18);
    v1.pushFront(20);
    v1.pushFront(25);
    v1.pushRear(18);
    v1.pushRear(20);
    v1.pushRear(25);
    v1.print();
    //[25, 20, 18, 18, 20, 25]

    int A[] = {11, 25, 33, 47, 51};
    MyVector v2(A, 5);
    v2.print();
    //[11, 25, 33, 47, 51]

    v2.pushFront(9);

```

```
//v2.inOrderPush(27);
v2.pushRear(63);
v2.print();
// [9, 11, 25, 27, 33, 47, 51, 63]

v1.pushRear(v2);
v1.print();
// [25, 20, 18, 18, 20, 25, 9, 11, 25, 27, 33, 47, 51, 63]

x = v1.popFront();
x = v1.popFront();
x = v1.popFront();
v1.print();
// [18, 20, 25, 9, 11, 25, 27, 33, 47, 51, 63]
std::cout << x << endl;
// 18

x = v1.popRear();
x = v1.popRear();
x = v1.popRear();
v1.print();
// [18, 20, 25, 9, 11, 25, 27, 33]
std::cout << x << endl;
// 47

x = v2.popAt(3);
v2.print();
//[9, 11, 25, 33, 47, 51, 63]
std::cout << x << endl;
// 27

x = v2.find(51);
std::cout << x << endl;
// 5

//x = v2.find(99);
std::cout << x << endl;
// -1

MyVector v3(v1);
v3.print();
// [18, 20, 25, 9, 11, 25, 27, 33]

v3.pushFront(v2);
v3.print();
//[9, 11, 25, 33, 47, 51, 63, 18, 20, 25, 9, 11, 25, 27, 33]

MyVector v4("input.dat");
v4.print();
// //v4.pushRear(v3);
// //v4.print();
// // [56, 61, 97, 66, 83, 25, 26, 11, 53, 49, 62, 18, 10, 18,
// // 14, 3, 4, 23, 18, 24, 26, 27, 54, 14, 12, 45, 65, 98,
// // 56, 97, 15, 84, 98, 9, 11, 25, 33, 47, 51, 63, 18, 20, 25,
```

```
// // 9, 11, 25, 27, 33]
// //
}
```