```
#include<iostream>
#include "ComplexNumber.h"
/** program should run without
this line, but not working, may be because of building issue.
idk */
using namespace std;
template<class T>
class Matrix
    Complex<T> mat[2][2];
public:
    Matrix() {}
    Matrix(T *arr)
        mat[0][0] = Complex<T>(arr[0], arr[1]);
        mat[0][1] = Complex<T>(arr[2], arr[3]);
        mat[1][0] = Complex<T>(arr[4], arr[5]);
        mat[1][1] = Complex<T>(arr[6], arr[7]);
    Matrix operator+(Matrix mt)
    {
        Matrix<int> ans;
        for(int i=0; i<2; i++)
            for(int j=0; j<2; j++)
                 ans.mat[i][j] = mat[i][j] + mt.mat[i][j];
        return ans;
    void show()
        for(int i=0; i<2; i++)
            for(int j=0; j<2; j++)
                mat[i][j].show();
            cout << endl;</pre>
        cout << endl;</pre>
};
int main()
    int arr[] = \{0,0,1,1,2,2,3,3\};
    Matrix<int> mat1(arr);
    int brr[] = \{1,1,2,2,3,3,4,4\};
```

```
Matrix<int> mat2(brr);
mat1.show();
mat2.show();
Matrix<int> mat = mat1+mat2;
mat.show();
}
```