```
#include<iostream>
using namespace std;
class Matrix {
   int ar[4];
    Matrix(int a1 = 0, int a2 = 0, int b1 = 0, int b2 = 0){
        ar[0] = a1;
        ar[1] = a2;
        ar[2] = b1;
        ar[3] = b2;
    void show(string name);
    Matrix operator+(Matrix op);
    Matrix& operator+=(Matrix op);
    Matrix& operator>>(int m[]);
    Matrix& operator<<(int m[]);</pre>
};
void Matrix::show(string name){
    cout << name << " = { ";
    for(int i=0; i<4; i++){
       cout << ar[i] << " ";
    cout << "}" << endl;</pre>
Matrix Matrix::operator+(Matrix m){
    Matrix tmp;
    for(int i=0; i<4; i++){
        tmp.ar[i] = this->ar[i] + m.ar[i];
    return tmp;
```

```
Matrix& Matrix::operator+=(Matrix m){
     for(int i=0; i<4; i++){
         this->ar[i] = this->ar[i] + m.ar[i];
     return *this;
 Matrix& Matrix::operator>>(int m[]){
     for(int i=0; i<4; i++){
        m[i] = this->ar[i];
     return *this;
 Matrix& Matrix::operator<<(int m[]){
     for(int i=0; i<4; i++){
        this->ar[i] = m[i];
     return *this;
 int main() {
     Matrix a(1, 2, 3, 4), b(2, 3, 4, 5), c;
     c = a + b;
     a.show("a");
     b.show("b");
     c.show("c");
     a += b;
     a.show("a");
     int x[4], y[4] = \{5, 6, 7, 8\};
     a >> x; // a의 각 원소를 배열 x에 복사.
     b << y; // 배열 y의 원소 값을 b의 각 원소에 설정
     cout << "x = { ";
     for (int i = 0; i < 4; i++)
         cout << x[i] << ' '; // x[] 출력
     cout << "}" << endl;</pre>
     b.show("b");
PS D:\2021-2\Cpp Programing\cpp> ./08 07
a = { 1 2 3 4 }
b = { 2 3 4 5 }
c = { 3 5 7 9
a = { 3 5 7 9 }
x = \{3579\}
      5 6 7 8
```