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#include <stdio>
#include <stdlib>

class A {
    int x;
public:
    A() : x(0) { printf("A default\n"); }
    explicit A(int x_in) : x(x_in) { printf("A with %d\n", x); }
    A(const A & rhs) : x(rhs.x) { printf("A copy ctor\n"); }
    A & operator=(const A & rhs) {
        printf("A op=, %d->%d\n", x, rhs.x);
        if (this != &rhs) {
            x = rhs.x;
        }
        return *this;
    }
};

class B1 {
    A y;
public:
    B1() : y(A(1)) { printf("B1 default\n"); }
    B1(const B1 & rhs) : y(rhs.y) { printf("B1 copy ctor\n"); }
};

class B2 {
    A y;
public:
    B2() {
        printf("B2 default\n");
        y = A(2);
    }
    B2(const B2 & rhs) {
        printf("B2 copy ctor\n");
        y = rhs.y;
    }
};

int main(void) {
    B1 b1;
    B2 b2;
    B1 b3(b1);
    B2 b4(b2);
    return EXIT_SUCCESS;
}

```