Pointer Program

Pointer Program

Find and fix at least 3 problems in the following program.

```
#include <iostream>
int main () {
    int a[7] = {0, 6, 5, 3, 2, 4, 1}; // static array
    int b[7];
    int* c = b;

    // copy a into b using pointers
    for (int* p = a; p <= a+7; ++p)
        *c++ = *p;

    // cross-check with random access
    for (int i = 0; i <= 7; ++i)
        if (a[i] != c[i])
            std::cout << "Oops, copy error...\n";

    return 0;
}
```

(From: Script Exercise 117)

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}
```

p = a+7 is dereferenced

Solution:
Use < instead of <=

(From: Script Exercise 117)

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p = a+7 is dereferenced

Solution:
Use < instead of <=

Same problem as above

(From: Script Exercise 117)

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    return 0;
}
```

`c` doesn't point to `b[0]` anymore.

Solution:
Use `b` instead of `c`

`p = a+7` is dereferenced

Solution:
Use `<` instead of `<=`

Same problem as above

(From: Script Exercise 117)