Object Oriented Programming with C++ Homework 1

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1 Question 1

The program below is supposed to print "Yes" if the two inputs are equal, "No" otherwise.

```
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5   int a,b;
6   cin >> a >> b;
7   if (a = b)
8    cout << "Yes" << endl;
9   else
10   cout << "No" << endl;
11 }</pre>
```

- 1. For what values of a and b will the program print "Yes"?
- 2. Does the program work as mentioned? If not, what is the bug?

2 Question 2

- 1. How is a reference variable different from a pointer variable?
- 2. C++ favors the use of reference to pointer. Can a reference variable take a null value?
- 3. What is the difference between C-style strings and C++ style-strings?
- 4. What is a namespace? Why are they useful?
- 5. The program fragment auto a; cin >> a; throws a compilation error a is not initialized. How do you fix this error?