

Problem 2B

A. Add a function named `isEqual()` to your `Point3D` class. The following code should run correctly:

Solution:

```
#include <iostream>

using namespace std;

class Point3D
{
public:
    void setValues(int _m_x, int _m_y, int _m_z)
    {
        m_x = _m_x;
        m_y = _m_y;
        m_z = _m_z;
    }

    void print()
    {
        cout << "<" << m_x << ", " << m_y << ", " << m_z << ">\n";
    }

    bool isEqual(Point3D classInstance)
    {
        return m_x == classInstance.m_x && m_y == classInstance.m_y && m_z ==
classInstance.m_z;
    }

private:
    int m_x;
    int m_y;
    int m_z;
};

int main()
{
    Point3D point1;
    point1.setValues(1, 2, 3);

    Point3D point2;
    point2.setValues(1, 2, 3);

    if (point1.isEqual(point2))
    {
        cout << "point1 and point2 are equal\n";
    }
}
```

```
else
{
    cout << "point1 and point2 are not equal\n";
}

Point3D point3;
point3.setValues(3, 4, 5);

if (point1.isEqual(point3))
{
    cout << "point1 and point3 are equal\n";
}
else
{
    cout << "point1 and point3 are not equal\n";
}

system("pause");
return 0;
}
```