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// coutsetf.cpp
// Demonstrates ways to format output using the setf object.

#include <iostream>

using namespace std;

int main()
{
    float x = 24.0;

    cout << "No formatting changes: ";           //displays 24
    cout << x << endl << endl;

    cout << "showpoint enabled: ";               //displays 24.0000
    cout.setf(ios::showpoint);
    cout << x << endl << endl;

    cout << "showpos enabled: ";                 //displays +24.0000
    cout.setf(ios::showpos);
    cout << x << endl << endl;

    cout << "scientific enabled: ";              //displays
+24.0000e+001
    cout.setf(ios::scientific);
    cout << x << endl << endl;

    cout << "uppercase enabled: ";               //displays
+24.0000E+001
    cout.setf(ios::uppercase);
    cout << x << endl << endl;

    cout << "showpoint disabled: ";             //displays
+24.0000E+001
    cout.unsetf(ios::showpoint);
    cout << x << endl << endl;

    cout << "showpos disabled: ";               //displays 24.0000E
+001
    cout.unsetf(ios::showpos);
    cout << x << endl << endl;

    cout << "uppercase disabled: ";             //displays 24.0000e
+001
    cout.unsetf(ios::uppercase);
    cout << x << endl << endl;

    cout << "scientific disabled: ";           //displays 24
    cout.unsetf(ios::scientific);

```

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    cout << x << endl << endl;  
    return 0;  
}
```