GTU CSE 241 / 501 Quiz

Std Code: 242

Std Number: | 2 | 1 | 0 | 1 | 0 | 4 | 0 | 0 | 4 | 0 | 3 | 9 | | |

class Digit {

    public:

        Digit();

        Digit(unsigned int nbr);

        friend ostream& operator<<(ostream& os, const Digit& d);

        Digit& operator++();

        Digit operator++(int);

        friend Digit operator+(const Digit& d1, const Digit& d2);

    private:

        int nbr;

};

```cpp
Digit::Digit(){
        nbr = 0;
}


Digit::Digit(unsigned int d){
        nbr = d % 10;
}


Digit& Digit::operator++() {
        nbr = (nbr + 1) % 10;
        return *this;
}


Digit Digit::operator++(int) {
        Digit ret(nbr);
        nbr = (nbr+1) % 10;
        return ret;
}


ostream& operator<<(ostream& os, const Digit& d) {
        os << d.nbr << endl;
        return os;
}


Digit operator+(const Digit& d1, const Digit& d2) {
        return (Digit(d1.nbr + d2.nbr));
}
```