

GTU CSE 241 / 501 Quiz

Std Code: 268

Std Number:

2	1	0	1	0	4	0	0	4	0	3	9			
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```
class Digit {  
    public:  
        Digit();  
        Digit(unsigned int);  
        void output();  
        void inc();  
        Digit operator+(const Digit& rhs);  
        Digit operator*(unsigned int rhs);  
    private:  
        unsigned int _nbr;  
};
```

```
Digit::Digit(){
```

```
    _nbr = 0;
```

```
}
```

```
Digit::Digit(unsigned int dgt){
```

```
    _nbr = dgt % 10;
```

```
}
```

```
void Digit::output() {
```

```
    std::cout<< _nbr << std::endl;
```

```
}
```

```
void Digit::inc() {
```

```
    _nbr = (_nbr + 1) % 10;
```

```
}
```

```
Digit Digit::operator+(const Digit &rhs) {
```

```
    Digit ret;
```

```
    ret._nbr = (this->_nbr + rhs.nbr)%10;
```

```
    return (ret);
```

```
}
```

```
Digit Digit::operator*(const Digit &rhs) {
```

```
    Digit ret;
```

```
    ret._nbr = (this->_nbr * rhs.nbr)%10;
```

```
    return (ret);
```

```
}
```