

```
#include "Number.h"
#include <iostream>
#include <iomanip>
#include <locale>
#include <algorithm>
#include <sstream>
```

```
Number::Number()
```

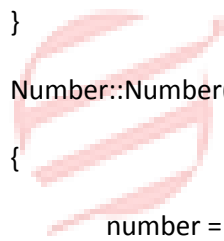
```
{
    number = 0;
    int_to_EURO();
    int_to_US();
}
```

```
Number::Number(int n)
```

```
{
    number = n;
    int_to_US();
    int_to_EURO();
}
```

```
void Number::int_to_US()
```

```
{
    stringstream ss;
    ss.imbue(locale(""));
    ss << fixed << number;
    US = ss.str();
}
```



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```
void Number::int_to_EURO()
{
    stringstream ss;
    ss.imbue(locale(""));
    ss << fixed << number;
    EURO = ss.str();
    replace(EURO.begin(), EURO.end(), ',', '.');
}
```

```
string Number::get_US_style() const
```

```
{
    return US;
}
```

```
// Returns int as a string in Euro style.
```

```
string Number::get_EURO_style() const
```

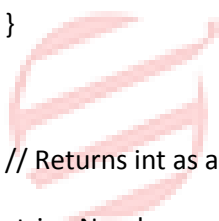
```
{
    return EURO;
}
```

```
// Returns the int.
```

```
int Number::get_number() const
```

```
{
    return number;
}
```

```
// Sets the value of int, US, and EURO.
```



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```
void Number::set_number(int n)
{
    number = n;
    int_to_US();
    int_to_EURO();
}
```

```
#ifndef NUMBER_H
#define NUMBER_H
```

```
#include<string>
using namespace std;
```

```
class Number
```

```
{
```

```
public:
```

```
    // Default constructor without any initial value.
```

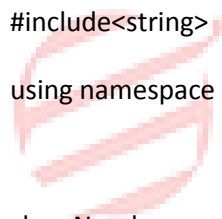
```
    Number();
```

```
    // Constructor with initial value.
```

```
    Number(int);
```

```
    // Returns int as a string in US style.
```

```
    string get_US_style()const;
```



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```
// Returns int as a string in Euro style.
string get_EURO_style()const;

// Returns the int.
int get_number()const;

// Sets the value of int, US, and EURO.
void set_number(int);

private:
    // A decimal number less than 4000.
    int number;

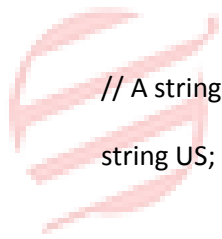
    // A string represent number in US style.
    string US;

    // A string representing number in EURO style.
    string EURO;

    // converting int to string in US style
    void int_to_US();

    // converting int to string in EURO style
    void int_to_EURO();
};

#endif
```



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```
#include"Number.h"

#include<Windows.h>

#include<iostream>

int main()

{

    Number n;

    cout << "Number one:\n" << n.get_number() << endl << n.get_US_style() << endl <<
n.get_EURO_style() << endl;

    n.set_number(1111);

    cout << "Number one:\n" << n.get_number() << endl << n.get_US_style() << endl <<
n.get_EURO_style() << endl;

    n.set_number(99);

    cout << "Number one:\n" << n.get_number() << endl << n.get_US_style() << endl <<
n.get_EURO_style() << endl;

    Number n2(22);

    cout << "Number two:\n" << n2.get_number() << endl << n2.get_US_style() << endl <<
n2.get_EURO_style() << endl;

    n2.set_number(2022);

    cout << "Number two:\n" << n2.get_number() << endl << n2.get_US_style() << endl <<
n2.get_EURO_style() << endl;

    Number n3(3333);

    cout << "Number three:\n" << n3.get_number() << endl << n3.get_US_style() << endl <<
n3.get_EURO_style() << endl;

    system("pause");

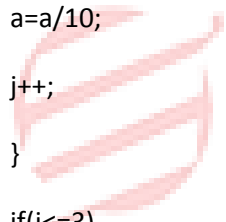
}
```

```
class number
{
private:
int a,US,EURO;
public:
void num()
{
a=0;
while(a==0)
{
cout<<"integer value="<<a;
cout<<"US style="<<a;
cout<<"EURO style="<<a;
}
}

void num1()
{
long a=1111;
int i=0,b;
while(a>0)
{
a=a/10;
i++;
}
if(i>3)
{
```

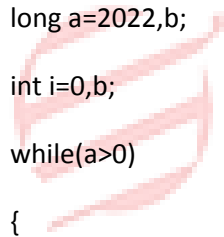
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```
b=a/1000;
a%=1000;
cout<<"Integer a=1111"<<endl;
cout<<"US style"<<b<<","<<a<<endl;
cout<<"EURO style"<<b<<","<<a<<endl;
}
}
void num2()
{
int a=99,j;
while(a>0)
{
a=a/10;
j++;
}
if(j<=3)
{
cout<<"integer="<<a<<endl;
cout<<"US style="<<a<<endl;
cout<<"EURO style="<<a<<endl;
}
}
void numtwo()
{
int a=22,i;
while(a>0)
{
```



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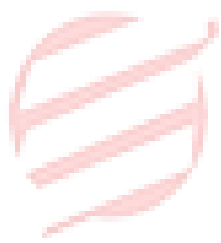
```
a=a/10;
j++;
}
if(j<=3)
{
cout<<"integer="<<a<<endl;
cout<<"US style="<<a<<endl;
cout<<"EURO style="<<a<<endl;
}
}
void numtwo1()
{
long a=2022,b;
int i=0,b;
while(a>0)
{
a=a/10;
i++;
}
if(i>3)
{
b=a/1000;
a%=1000;
cout<<"Integer a=1111"<<endl;
cout<<"US style"<<b<<","<<a<<endl;
cout<<"EURO style"<<b<<","<<a<<endl;
}
}
```



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```
}  
  
void numthree()  
{  
    long a=3333;  
    int i=0,b;  
    while(a>0)  
    {  
        a=a/10;  
        i++;  
    }  
    if(i>3)  
    {  
        b=a/1000;  
        a%=1000;  
        cout<<"Integer a=1111"<<endl;  
        cout<<"US style"<<b<<","<<a<<endl;  
        cout<<"EURO style"<<b<<","<<a<<endl;  
    }  
}  
  
void main()  
{  
    number n;  
    n.num();  
    n.num1();  
    n.num2();  
    n.numtwo();  
    n.numtwo1();  
}
```

```
n.numthree();  
}
```



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★★★★★