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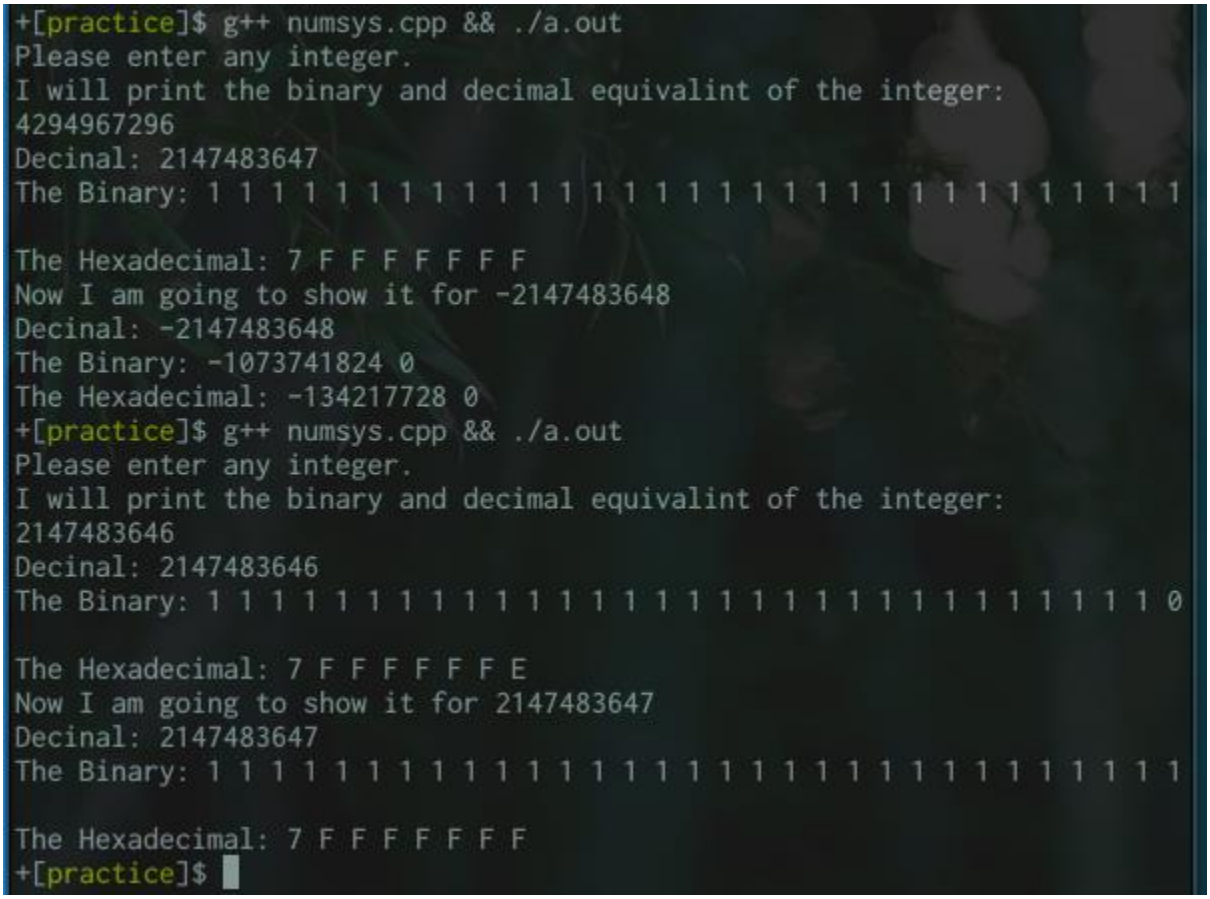


```
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//CSC.21100, Spring 2017

#include <iostream>
#include <vector>

using namespace std;

void binary(int n);
void hexa(int n);

main()
{
        int n;
```

```
	cout<<"Please enter any integer. \nI will print the binary and
decimal equivalint of the integer: "<<endl;
	cin>>n;

	cout<<"Decinal: "<<n<<endl;
	binary(n);
	cout<<endl;
	hexa(n);
	cout<<endl;

	cout<<"Now I am going to show it for "<<n+1
			<<"\nDecinal: "<<n+1<<endl;
	binary(n+1);
	cout<<endl;
	hexa(n+1);
	cout<<endl;
}

void binary(int n)
{
	vector <int> b;
	int r;
	cout<<"The Binary: ";
	do
	{
		r=n%2;
		b.push_back(r);
		n=n/2;
	}while(n>=2);
	cout<<n<<" ";
	for(int i=b.size()-1; i>=0; i--)
	{
		cout<<b[i]<<" ";
	}
}

void hexa(int n)
{
	vector <char> b;
	int r;
	cout<<"The Hexadecimal: ";
	do
	{
		r = n%16;
		if(r==0)
			b.push_back('0');
		if(r==1)
			b.push_back('1');
		if(r==2)
			b.push_back('2');
		if(r==3)
			b.push_back('3');
		if(r==4)
			b.push_back('4');
```

```
            if(r==5)
                    b.push_back('5');
            if(r==6)
                    b.push_back('6');
            if(r==7)
                    b.push_back('7');
            if(r==8)
                    b.push_back('8');
            if(r==9)
                    b.push_back('9');
            if(r==10)
                    b.push_back('A');
            else if(r==11)
                    b.push_back('B');
            else if(r==12)
                    b.push_back('C');
            else if(r==13)
                    b.push_back('D');
            else if(r==14)
                    b.push_back('E');
            else if(r==15)
                    b.push_back('F');
            n= n/16;
        }while(n>=16);
        cout<<n<<" ";
        for(int i=b.size()-1; i>=0; i--)
        {
                cout<<b[i]<<" ";
        }
}
```