

Convert the following binary numbers to decimal:

00010010

00001011

$1 \times 8 + 1 \times 2 + 1 \times 1 = 11$

01000100

Convert the following decimal numbers to binary:

25

67  $64+2+1 = 01000011$

14

Let us consider the following code:

```
int a;
cout << "Give me a number: ";
cin >> a;
switch(a) {
    case 0:
    case 1:
        cout << "Apple\n";
        break;
    case 2:
    case 3:
        cout << "Orange\n";
    case 4:
        cout << "Pear\n";
        break;
    default :
        cout << "Banana\n";
}
```

What is the output if the user inputs:

7

1 **Apple**

2

What is the output of the following code?

```
int a=3;
while(a!=9)
{
    cout << "My number is " << a << endl;
    a+=3;
}
```

**My number is 3**  
**My number is 6**

What is the output of the following code?

```
int a=3, b=0;
while(a<6)
{
    b = b+a;
    a++;
}
cout << b;
```

What is the output of the following code?

```
int a=3;
while(a>0||a<5)
{
    cout << "Loop!";
    a--;
}
```