

1. What is the value of the variable x after executing the code below?

```
int y = 5;
int x = 1;
do
{
    x += y;
} while (y-- > 1);

return x;    // What is x?
```

2. What is the value of the variable x after executing the code below?

```
bool x;
int a = 4;
int b = 4;

a = ++a;
b = b & 1;
x = (a == b);

return x;    // What is x?
```

3. What is the value of the variable x after executing the code below?

```
// called initially with no parameter:
// Console.WriteLine($" x = {MethodX()}");

static int MethodX(int x=5)
{
    int y = 2;

    if ( x > y )
    {
        x %= y;
        MethodX(x);
    }

    return x;    // What is x?
}
```

4. What is the value of the variable x after executing the code below?

```
int x = 0;
int y = 5;
for (int i = y; i > 0; i--)
{
    x += (i % 2 == 1) ? i : y;
}
return x;    // What is x?
```

5. What is the value of the variable x after executing the code below?

```
int x = 0;
int y = 3;
bool isTrue = true;

while( !isTrue )
{
    x += ++y;
    if ( x >= 12 )
    {
        isTrue = (!false);
    }
}

return x;    // What is x?
```

6. What is the value of the variable x after executing the code below?

```
string string1 = "Mississippi";
string string2 = "";

foreach(var s in string1.Split('i'))
{
    string2 += s;
}

int x = string2.Length;

return x;    // What is x?
```