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Q1: 6

Q2: 答案a:count += 1;

答案b:amount -= 5;

答案c:radius *= 10;

答案d:length /= 2;

Q3: nan

Q4: double product = Math.Pow(12, 5);

Q5: int year = 2024;

```
if ((year % 4 == 0 && year % 100 != 0) || year % 400 == 0)
```

```
{
```

```
    MessageBox.Show("是閏年");
```

```
}
```

```
else
```

```
{
```

```
    MessageBox.Show("不是閏年");
```

```
}
```

Q6:

```
double temperature;
```

```
if (double.TryParse(tempTextBox.Text, out temperature))
```

```
{
```

```
    MessageBox.Show("溫度: " + temperature.ToString());
```

```
}
```

```
else
```

```
{
```

```
    MessageBox.Show("無效輸入");
```

```
}
```

```
Q7: if (nameListBox.SelectedItems.Count > 0)
```

```
{
```

```
    string selectedItems = "選取項目: ";
```

```
    foreach (var item in nameListBox.SelectedItems)
```

```
    {
```

```
        selectedItems += item.ToString() + "\n";
```

```
    }
```

```
    MessageBox.Show(selectedItems);
```

```
}
```

```
else
```

```
{
```

```
    MessageBox.Show("沒有選取項目");
```

```
}
```

```
Q8: 5
```

```
Q9: string message = "";
```

```
for (count = 1; count <= 50; count++)
```

```
{
```

```
    message += "我喜歡程式設計\n";
```

```
}
```

```
MessageBox.Show(message);
```

Q10: 1

Q11: 13700

Q12: 答案A:inputFile = File.OpenText("Sales.txt");

答案B:sales =sales = decimal.Parse(inputFile.ReadLine());

答案C:total += sales;

答案D:inputFile.Close();

Q13: Random random = new Random();

int randomNumber = random.Next(100, 400);

Console.WriteLine("隨機整數：" + randomNumber);

Q14: nan

Q15: class Program

```
{  
    static void Main()  
    {  
        string fileName = "multiples_of_three.txt";  
        try  
        {  
            using (StreamWriter writer = File.CreateText(fileName))  
            {  
                for (int i = 1; i <= 999; i++)  
                {  
                    if (i % 3 == 0)  
                    {  
                        writer.WriteLine(i);  
                    }  
                }  
            }  
        }  
    }  
}
```

```
    }  
    }  
  
    MessageBox.Show($"成功將所有的3的倍數寫入檔案：{fileName}");  
    }  
  
    catch (Exception ex)  
    {  
        MessageBox.Show($"發生錯誤：{ex.Message}");  
    }  
    }  
}
```

Q16: nan

Q17: 第一次訊息:The value of number is 99

ChangeMe方法內訊息:In ChangeMe, myValue is 0

第二次訊息:The value of number is 99

Q18: private void SetToZero(ref int number)

```
{  
    number = 0;  
}
```

private void goButton_Click(object sender, EventArgs e)

```
{  
    // Declare some local int variables.  
  
    int x = 99, y = 100, z = 101;  
  
    // Display the values in those variables.
```

```
outputListBox.Items.Clear();

outputListBox.Items.Add("x is set to " + x);

outputListBox.Items.Add("y is set to " + y);

outputListBox.Items.Add("z is set to " + z);


// Pass each variable to SetToZero.

SetToZero(ref x);

SetToZero(ref y);

SetToZero(ref z);


// Display the values in those variables again.

outputListBox.Items.Add("#####");

outputListBox.Items.Add("x is set to " + x);

outputListBox.Items.Add("y is set to " + y);

outputListBox.Items.Add("z is set to " + z);

}
```

執行結果：

```
#####
```

```
x is set to 0
```

```
y is set to 0
```

```
z is set to 0
```