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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