Question a

- 計算兩點A(a1,a2), B(b1,b2)距離是否大於Dist
- Input:
 - A(a1,a2) B(b1,b2) (註:a1 a2 b1 b2皆為int)
 - Dist(註: Dist為float)
- Output:>或=或<

```
Please input Point A and Point B: A(1,1) B(2,2)
Please input Dist: 1
>
Process returned 0 (0x0) execution time : 17.002 s
Press any key to continue.
```

```
Please input Point A and Point B: A(1,1) B(2,2)
Please input Dist: 2.1
<
Process returned 0 (0x0) execution time : 16.091 s
Press any key to continue.
```

```
Please input Point A and Point B: A(8,5) B(4,2)
Please input Dist: 5
=
Process returned 0 (0x0) execution time : 13.706 s
Press any key to continue.
```

Question b

- Given an integer $n = d_9 \cdots d_2 d_1 d_0$, where each di is a decimal digit,
- n 為**10位**數字, n >= 0
- 請計算Sum = $d_9 d_8 + d_7 d_6 + d_5 d_4 + d_3 d_2 + d_1 d_0$
- Input: n(n為int)
- Output: $d_9 d_8 + d_7 d_6 + d_5 d_4 + d_3 d_2 + d_1 d_0 = \text{sum}$

```
Please input n: 1234567890
1 - 2 + 3 - 4 + 5 - 6 + 7 - 8 + 9 - 0 = 5
Process returned 0 (0x0) execution time : 5.175 s
Press any key to continue.
```

Question c

- Given an integer $n = d_8 \cdots d_2 d_1 d_0$, where each di is a decimal digit,
- n 為*9位*數字, n >= 0
- 請計算Sum = $(...((d_0 \times 10 + d_1) \times 10 + d_2)...) \times 10 + d_8$
- Input: n
- Output: sum

```
Please input n: 147258369
963852741
Process returned 0 (0x0) execution time : 17.899 s
Press any key to continue.
```

Question d

• 費氏數列定義為以下:

$$F_0 = 0$$

 $F_1 = 1$
 $F_n = F_{n-1} + F_{n-2}$

- •請計算Fn (0<= n <= 10)
- Input: n
- Output : **F**_n

```
Please input n: 10
55
Process returned 0 (0x0) execution time : 1.710 s
Press any key to continue.
```

Question e

- 輸入 a, b, c, d (皆為int) 然後計算 Ans = a + b * c d
- (此題不用考慮overflow,直接計算即可)
- Input : a , b, c, d
- Output : Ans

```
Please input a b c d: 1 2 3 4
3
Process returned 0 (0x0) execution time : 5.027 s
Press any key to continue.
```

Question f(Bonus)

- Given an integer $n = d_9 \cdots d_2 d_1 d_0$, where each di is a decimal digit,
- n 為**10位**數字, n >= 0
- 請計算Sum = $(...((d_0 \times 10 + d_1) \times 10 + d_2)...) \times 10 + d_8$, Sum是 int
- 若Sum無overflow印Sum
- 若Sum overflow 印出 overflow
- Input: n
- Output: sum 或 overflow

```
Please input n: 1234567899
overflow
Process returned 0 (0x0) execution time : 5.067 s
Press any key to continue.
Press any key to continue.
```