**一維串列**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sadsadsad | 50 | ASDD | 100 | 90 | GHF54 |  |
| 0 | 1 | 2 | 3 | 4 | 5 | … |
|  |  |  |  | -3 | -2 | -1 |

**二維串列 (a)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | |  |  |  |  | | --- | --- | --- | --- | | 'A' | 'B' | 'C' | 'D' | | 0 | 1 | 2 | 3 | | |  |  |  |  | | --- | --- | --- | --- | | 20 | 30 | 40 | 70 | | 0 | 1 | 2 | 3 | | 50 | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | 0 | 1 | 2 | 3 | | |  |  |  |  | | --- | --- | --- | --- | |  | 60 |  |  | | 0 | 1 | 2 | 3 | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | 0 | 1 | 2 | 3 | |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 |

a[0] => 10

a[1] => [A,B,C,D]

a[2] => [20,30,40,70]

a[1][2] => C

a[1][1:4] => [B,C,D]

|  |  |  |  |
| --- | --- | --- | --- |
| 座號 | 姓名 | 性別 | 地區 |
| 1 | A | 男 | 士林 |
| 2 | B | 男 | 三重 |
| 3 | C | 女 | 板橋 |

**轉換成Python**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | **1** | **A** | **男** | **士林** | | 0 | 1 | 2 | 3 | | |  |  |  |  | | --- | --- | --- | --- | | **2** | **B** | **男** | **三重** | | 0 | 1 | 2 | 3 | | |  |  |  |  | | --- | --- | --- | --- | | **3** | **C** | **女** | **板橋** | | 0 | 1 | 2 | 3 | |
| 0 | 1 | 2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| 1 | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | -1 | 0 |  |  |  |  |  |  |  |  | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| 2 | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| 3 | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| 4 | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  |  |  | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |

**List**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **34** | **18** | **22** | **32** | **18** | **29** | **30** | **38** | **42** | **18** |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

List.index(34)

**count**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **3** | **1** | **1** | **0** | **1** | **1** | **1** | **1** | **0** |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

|  |  |  |
| --- | --- | --- |
| **6** | **4** | **8** |
| **39** | **12** | **3** |
| **-3** | **49** | **33** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | |  |  |  | | --- | --- | --- | | **6** | **4** | **8** | | 0 | 1 | 2 | |
| 1 | |  |  |  | | --- | --- | --- | | **39** | **12** | **3** | | 0 | 1 | 2 | |
| 2 | |  |  |  | | --- | --- | --- | | **-3** | **49** | **33** | | 0 | 1 | 2 | |

|  |  |  |
| --- | --- | --- |
| 8 | 39 | 49 |
| 0 | 1 | 2 |
|  |  |  |

**score**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **1** | **aa** | **30** | **40** | **50** | **163.33** | | 0 | 1 | 2 | 3 | 4 | 5 | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **2** | **bb** | **40** | **50** | **60** | **206.67** | | 0 | 1 | 2 | 3 | 4 | 5 | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **3** | **cc** | **55** | **66** | **77** | **275.0** | | 0 | 1 | 2 | 3 | 4 | 5 | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **4** | **dd** | **10** | **20** | **30** | **76.67** | | 0 | 1 | 2 | 3 | 4 | 5 | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **5** | **ee** | **77** | **88** | **99** | **370.33** | | 0 | 1 | 2 | 3 | 4 | 5 | |
| 0 | 1 | 2 | 3 | 4 |
|  |  |  |  |  |

**rank**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 3 | 1 | 1 | 2 | 1 |
| 0 | 1 | 2 | 3 | 4 |
|  |  |  |  |  |

**比較過程: (誰分數比較低，誰的名次就+1)**

第一位同學 (編號0) : 1234

第二位同學 (編號1) : 234

第三位同學 (編號2) : 34

第四位同學 (編號3) : 4

第五位同學 (編號4) : X