Assignment

**Check digit of HK ID card number**

Read a text file which contains lines of HK ID card numbers.

Print the invalid ID numbers.

Report the total number of invalid IDs.

Add the statement **pause=input()** at the end of your program.

How to check if A123456(3) is valid?

The check digit (A) = 10

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| A=1 | 1 | 2 | 3 | 4 | 5 | 6 | 3 |
| x8 | x7 | x6 | x5 | x4 | x3 | x2 | x1 |
| 8 | 7 | 12 | 15 | 16 | 15 | 12 | 3 |

sum = 8+7+12+15+16+15+12+3 = 88

sum = 88 is divisible by 11

The ID number is valid.

Test your program. Check against the following sample output.

File name e.g. 4C03ChanTaiMan\_IDcheckDigit.py

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output for data1.txt

Invalid IDs

A111111(1)

A111111(A)

B111111(0)

Total number of invalid IDs : 3

Press ENTER to quit.

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output for data2.txt

Invalid IDs

Z402695(0)

J658279(A)

A835924(5)

P606160(4)

X298557(A)

Total number of invalid IDs : 5

Press ENTER to quit.

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