

Coding Quiz 4

COMP9021 PRINCIPLES OF PROGRAMMING Term 3, 2022

\$ python3 quiz_4.py

Input either a strictly positive integer
or a nonempty list of strictly positive integers: **1**
In base 2, 1 reads as 1
Incorrect encoding!

\$ python3 quiz_4.py

Input either a strictly positive integer
or a nonempty list of strictly positive integers: **12345**
In base 2, 12345 reads as 11000000111001
Incorrect encoding!

\$ python3 quiz_4.py

Input either a strictly positive integer
or a nonempty list of strictly positive integers: **3**
In base 2, 3 reads as 11
It encodes: [1]

\$ python3 quiz_4.py

Input either a strictly positive integer
or a nonempty list of strictly positive integers: **[1]**
In base 2, [1] reads as [1]
It is encoded by 3

\$ python3 quiz_4.py

Input either a strictly positive integer
or a nonempty list of strictly positive integers: **51315663**
In base 2, 51315663 reads as 11000011110000001111001111
It encodes: [4891]

\$ python3 quiz_4.py

Input either a strictly positive integer
or a nonempty list of strictly positive integers: **[4891]**
In base 2, [4891] reads as [1001100011011]
It is encoded by 51315663

\$ python3 quiz_4.py

Input either a strictly positive integer
or a nonempty list of strictly positive integers: **424896**
In base 2, 424896 reads as 1100111101111000000
It encodes: [11, 24]

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$ python3 quiz_4.py
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Input either a strictly positive integer
or a nonempty list of strictly positive integers: [11, 24]
In base 2, [11, 24] reads as [1011, 11000]
It is encoded by 424896

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$ python3 quiz_4.py
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Input either a strictly positive integer
or a nonempty list of strictly positive integers: 857310204
In base 2, 857310204 reads as 110011000110011000001111111100
It encodes: [10, 20, 30]

```
$ python3 quiz_4.py
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Input either a strictly positive integer
or a nonempty list of strictly positive integers: [10, 20, 30]
In base 2, [10, 20, 30] reads as [1010, 10100, 11110]
It is encoded by 857310204

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$ python3 quiz_4.py
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Input either a strictly positive integer
or a nonempty list of strictly positive integers: 13609683913728
In base 2, 13609683913728 reads as 11000110000011000000011000000000110000000000
It encodes: [2, 4, 8, 16, 32]

```
$ python3 quiz_4.py
```

Input either a strictly positive integer
or a nonempty list of strictly positive integers: [2, 4, 8, 16, 32]
In base 2, [2, 4, 8, 16, 32] reads as [10, 100, 1000, 10000, 100000]
It is encoded by 13609683913728