Coding Quiz 2

COMP9021 PRINCIPLES OF PROGRAMMING
Term 3, 2022

Reading the number written in base 8 from right to left, keeping the leading 0's, if any:

- **0:** Move North
- **1:** Move North-East
- **2:** Move East
- **3:** Move South-East
- **4:** Move South
- **5:** Move South West
- **6:** Move West
- **7:** Move North-West

We start from a position that is the unique position where the switch is on.
Moving to a position switches on to off, off to on there.

$ python3 quiz_2.py
Enter a non-strictly negative integer: 0
Keeping leading 0's, if any, in base 8, 0 reads as 0.

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$ python3 quiz_2.py
Enter a non-strictly negative integer: 00
Keeping leading 0's, if any, in base 8, 00 reads as 00.

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$ python3 quiz_2.py
Enter a non-strictly negative integer: 0256
Keeping leading 0's, if any, in base 8, 0256 reads as 0400.

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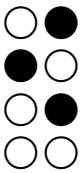
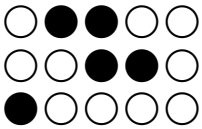
$ python3 quiz_2.py
Enter a non-strictly negative integer: 032
Keeping leading 0's, if any, in base 8, 032 reads as 040.

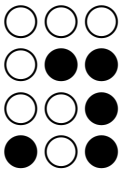
$ python3 quiz_2.py
Enter a non-strictly negative integer: 3654
Keeping leading 0's, if any, in base 8, 3654 reads as 7106.



$ python3 quiz_2.py
Enter a non-strictly negative integer: 100738324
Keeping leading 0's, if any, in base 8, 100738324 reads as 600222424.

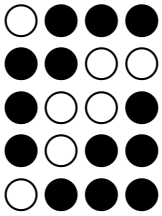


$ python3 quiz_2.py
Enter a non-strictly negative integer: 73776
Keeping leading 0's, if any, in base 8, 73776 reads as 220060.



$ python3 quiz_2.py
Enter a non-strictly negative integer: 7704322
Keeping leading 0's, if any, in base 8, 7704322 reads as 35307402.

$ python3 quiz_2.py
Enter a non-strictly negative integer: 206537612
Keeping leading 0's, if any, in base 8, 206537612 reads as 1423701614.



$ python3 quiz_2.py
Enter a non-strictly negative integer: 000123456789
Keeping leading 0's, if any, in base 8, 000123456789 reads as 000726746425.