

## QUIZ 2 (worth 3.5 marks)

### COMP9021 PRINCIPLES OF PROGRAMMING

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

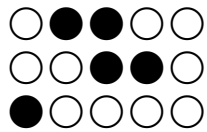
Keeping leading 0's, if any, in base 8, 3654 reads as 7106.

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\$ python3 quiz\_2.py

Enter a non-strictly negative integer: 100738324

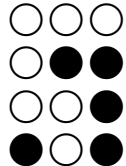
Keeping leading 0's, if any, in base 8, 100738324 reads as 600222424.



\$ python3 quiz\_2.py

Enter a non-strictly negative integer: 73776

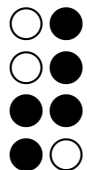
Keeping leading 0's, if any, in base 8, 73776 reads as 220060.



\$ python3 quiz\_2.py

Enter a non-strictly negative integer: 7704322

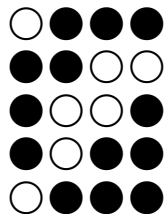
Keeping leading 0's, if any, in base 8, 7704322 reads as 35307402.



\$ 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.

