Coding Challenge Notes

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1 Unorganized

2 Useful functions

- **reversed**(s) reverses an iterable and returns an iterator.

3 Converting types

3.1 How do I convert a list of chars/strings to string?

```
1  >>> string = ['a', 'b', 'c']
2  >>> "".join(strings)
```

3.2 How do I convert a number to a string/vice versa?

```
1  >>> a = str(6.24)
2  >>> b = int("8")
3  >>> c = float("1.25")
```

4 String manipulation

4.1 How do I convert from a character to its ASCII/vice versa?

```
1  >>> n = ord('a')
2  >>> a = chr(n)
```

4.2 How to I convert a character/string to lower/upper case?

```
1  >>> 'Abc'.lower()
2  >>> 'Abc'.upper()
```

5 Discriminating between different types of characters

5.1 How do I determine if a char is punctuation?

```
1  >>> import string
2  >>> if c is in string.punctuation:
3  >>>    ...
```

5.2 How do I determine if a char is whitespace?

```
1  >>> if c.isspace():
2  >>>    ...
```

5.3 How do I determine if a char is alphabetical/alphanumeric?

```
1  >>> if c.isalpha():
2  >>>    ...
```

```
1  >>> if c.isalnum():
2  >>>    ...
```

6 Common gotchas

- **range**(n) goes from 0 to $n - 1$, *not* up to n.
- There is neither ++ nor -- operators in Python. Use += 1 and -= 1 instead.