Converting between int, str, and float

str

Builtin function str takes any value and returns a string representation of that value.

```
>>> str(3)
'3'
>>> str(47.6)
'47.6'
```

int

Builtin function int takes a string containing only digits (possibly with a leading minus sign -) and returns the int that represents. Function int also converts float values to integers by throwing away the fractional part.

```
>>> int('12345')
>>> int('-998')
-998
>>> int(-99.9)
-99
```

If function int is called with a string that contains anything other than digits, a ValueError happens.

```
>>> int('-99.9')
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ValueError: invalid literal for int() with base 10: '-99.9'
```

float

Builtin function float takes a string containing only digits and zero or one decimal points (possibly with a leading minus sign -) and returns the float that represents. Function float also converts int values to floats.

```
>>> float('-43.2')
-43.2
>>> float('432')
432.0
>>> float(4)
4.0
```

If function float is called with a string that can't be converted, a ValueError happens.

```
>>> float('-9.9.9')
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
ValueError: could not convert string to float: '-9.9.9'
```

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