Arrays

* Convert from one base to another

import string

import functools

def convert\_base(num\_as\_string,b1,b2):

def construct\_from\_base(num\_as\_int,base):

return ('' if num\_as\_int == 0 else

construct\_from\_base(num\_as\_int // base, base) +

string.hexdigits[num\_as\_int % base].upper())

is\_negative = num\_as\_string[0] == '-'

num\_as\_int = functools.reduce(

lambda x, c: x \* b1 + string.hexdigits.index(c.lower()),

num\_as\_string[is\_negative:], 0)

return ('-' if is\_negative else '') + ('0' if num\_as\_int == 0 else

construct\_from\_base(num\_as\_int, b2))