General

```
import math           # math.pi
import math as m      # m.pi
from math import pi   # pi
from math import *    # pi
print("hello", "world")
class Point:
def factorial(n):
if x > 0:  elif x < 0:  else:
for i in range(6):
while x > 0:
try:  except Exception as e:
with open('foo.txt') as f:
[i**2 for i in range(6)]
map(lambda x:  x**2, range(6))
[i for i in range(6) if i%2]
filter(lambda x:  x%2, range(6))
```

List and String Methods

```
l.append(x)      l.extend(L)
l.insert(i, x)   l.remove(x)
l.pop([i])       l.clear()
l.index(x)       l.count(x)
l.reverse()      l.copy()
l.sort(key=None, reverse=False)
s.count(sub[, start[, end]])
s.format(*args, **kwargs)
s.find(sub[, start[, end]])
s.rfind(sub[, start[, end]])
s.join(iterable)
s.strip([chars])
s.replace(old, new[, count])
s.split(sep=None, maxsplit=-1)
s.splitlines([keepends])
s.partition(sep)
```

IO and Standard Library

```
f = open(file)   f.close()
f.read([i])      f.readlines()
f.write(s)       f.writelines(L)
os.getcwd()
os.chdir('foo')
os.system('mkdir foo')
shutil.copyfile('foo', 'bar')
shutil.move('foo', 'bar')
sys.argv
sys.stderr.write('foo')
math.cos(math.pi / 4)
math.log(1024, 2)
random.choice([4, 5, 6])
random.sample(range(100), 10)
random.random()
random.randrange(6)
```

python cheat mug