

<p>KOLEKCJE</p> <pre> class list class list(iterable) class tuple class tuple(iterable) class dict(**kwarg) class dict(mapping, **kwarg) class dict(iterable, **kwarg) vars() vars(object) class set class set(iterable) class frozenset(iterable=set()) class range(stop) class range(start, stop, step=1) class slice(stop) class slice(start, stop, step=None)  k-kolekcja l-lista s-zbiór fs - zbiór niemodyfikowalny (frozen set) </pre>	<pre> len(k)  filter(function, iterable) map(function, iterable, *iterables) any(iterable) all(iterable)  reversed(seq) sorted(iterable, /, *, key=None, reverse=False) zip(*iterables, strict=False)  sum(iterable, /, start=0) max(iterable, *, key=None) max(iterable, *, default, key=None) max(arg1, arg2, *args, key=None) min(iterable, *, key=None) min(iterable, *, default, key=None) min(arg1, arg2, *args, key=None) </pre>	<pre> l[i] = x l[i:j] = t del l[i:j] l[i:j:k] = t del l[i:j:k]  l.append(x) l.extend(t) or s += t l *= n l.insert(i, x) l.pop() or s.pop(i) l.remove(x)  l.reverse()  ls.clear() k.copy()  x in k x not in k  k &lt;= other k &lt; other k &gt;= other k &gt; other </pre>
<p>SET, FROZEN SET</p> <pre> isdisjoint(other) issubset(other) issuperset(other)  union(*others) set   other   ... intersection(*others) set &amp; other &amp; ... difference(*others) set - other - ... symmetric_difference(other) set ^ other </pre>	<p>SET</p> <pre> add(elem) remove(elem) discard(elem) pop()  update(*others) set  = other   ... intersection_update(*others) set &amp;= other &amp; ... difference_update(*others) set -= other   ... symmetric_difference_update(other) set ^= other </pre>	<p>ITERATORY</p> <pre> aiter(async_iterable) awaitable anext(async_iterator) awaitable anext(async_iterator, default)  enumerate(iterable, start=0) iter(object) iter(object, sentinel) next(iterator) next(iterator, default) </pre>

<p>DICTIONARY - SŁOWNIKI</p> <pre> d = {'a': 1} d   other d  = other update([other])  len(d) list(d) items() keys() values()  key in d key not in d d[key] d[key] = value get(key[, default]) pop(key[, default]) popitem() del d[key]  setdefault(key[, default]) </pre>	<pre> iter(d) reversed(d)  clear() copy()  classmethod fromkeys(iterable[, value]) </pre>	<p>DICTIONARY VIEW OBJECT - OKULARY SŁOWNIKOWE</p> <pre> len(dictview)  x in dictview  iter(dictview) reversed(dictview)  dictview.mapping </pre>
<p>STRING - NAPISY</p> <pre> class str(object='') class str(object=b'', encoding='utf-8', errors='strict')  str.encode(encoding='utf-8', errors='strict') </pre>	<pre> str.find(sub[, start[, end]]) str.index(sub[, start[, end]]) str.rfind(sub[, start[, end]]) str.rindex(sub[, start[, end]]) str.count(sub[, start[, end]])  str.endswith(suffix[, start[, end]]) str.startswith(prefix[, start[, end]])  str.join(iterable) str.split(sep=None, maxsplit=- 1) str.rsplit(sep=None, maxsplit=- 1) str.partition(sep) str.rpartition(sep) </pre>	<pre> str.replace(old, new[, count])  static str.maketrans(x[, y[, z]]) str.translate(table) </pre>

<pre> str.capitalize() str.casefold() str.lower() str.upper() str.swapcase() str.title()  str.strip([chars]) str.lstrip([chars]) str.rstrip([chars])  str.removeprefix(prefix, /) str.removesuffix(suffix, /)  str.ljust(width[, fillchar]) str.rjust(width[, fillchar]) str.center(width[, fillchar]) str.zfill(width) str.expandtabs(tabsize=8) </pre>	<pre> str.format(*args, **kwargs) str.format_map(mapping) </pre>	<pre> str.isascii() str.isprintable()  str.isalnum() str.isalpha() str.islower() str.isupper() str.isidentifier() str.istitle() str.isspace()  str.isdecimal() str.isdigit() str.isnumeric()  ascii(object) bin(x) oct(x) hex(x) chr(i) ord(c) </pre>
<p>LICZBY</p> <p>(całkowite, rzeczywiste, zespolone)</p> <pre> class int(x=0) class int(x, base=10) class float(x=0.0) class complex(real=0, imag=0) class complex(string) </pre>	<pre> divmod(x, y) pow(base, exp, mod=None)  round(number, ndigits=None) math.trunc(x) math.floor(x) math.ceil(x)  abs(x)  .is_integer() .as_integer_ratio()  int(x) float(x) complex(x) </pre>	<pre> complex(re, im) c.conjugate()  x+y    &lt;    class bool(x=False) x-y    &gt; x*y    &lt;=   is x/y    &gt;=   is not x//y   == x%y    != x**y +x -x </pre>

<pre>repr(object) format(value, format_spec='') print(*objects, sep=' ', end='\n', file=None, flush=False)  input() input(prompt)  open(file, mode='r', buffering=- 1, encoding=None, errors=None, newline=None, closefd=True, opener=None)</pre>	<pre>eval(expression, globals=None, locals=None)  compile(source, filename, mode, flags=0, dont_inherit=False, optimize=- 1) exec(object, globals=None, locals=None, /, *, closure=None)  help() help(request) breakpoint(*args, **kws)  class memoryview(object)</pre>	
<pre>KLASY i OBIEKTY  class object class property(fget=None, fset=None, fdel=None, doc=None) class super class super(type, object_or_type=None)  @classmethod decorator @staticmethod decorator</pre>	<pre>setattr(object, name, value) delattr(object, name) getattr(object, name) getattr(object, name, default) hasattr(object, name)  locals() globals() dir() dir(object) callable(object) hash(object)</pre>	<pre>id(object) isinstance(object, classinfo) issubclass(class, classinfo)</pre>