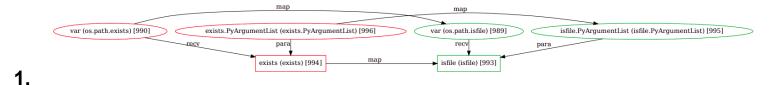
Nº	Before	After
1	os.path.exists(path)	os.path.isfile(path)
2	os.path.exists(path)	os.path.isdir(path)
3	static = [1, 2, 3]	static = [1, 2, 3]
	<pre>for i in range(len(static)):      dim = static[i]      print(dim)</pre>	<pre>for i, dim in enumerate(static):      print(dim)</pre>
4	np.array([0, 0, 0,])	np.zeros()
5	sorted(vocab.keys())	sorted(vocab)
6	np.array(range(n))	np.arange(n)
7	self.assertIs(x, True)	self.assertTrue(x)
8	<pre>func_attr = getattr(_, 'func') isinstance(    func_attr,    collections.Callable )</pre>	<pre>func_attr = getattr(_, 'func') callable(f)</pre>
9	np.log(1 + abs(x))	np.log1p(abs(x))

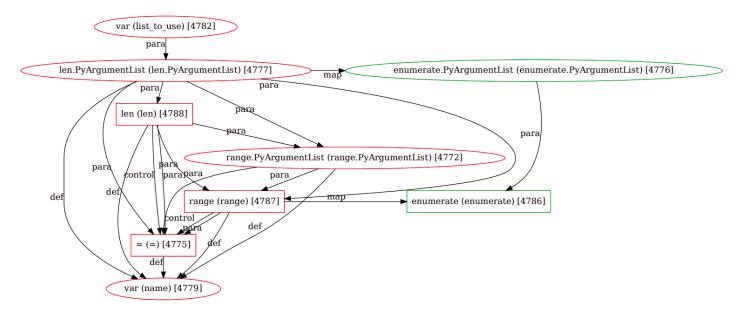
## Change graphs of 9 patterns, which were encountered during mining:



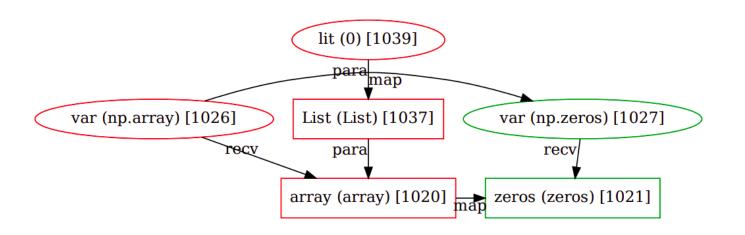
exists.PyArgumentList (exists.PyArgumentList) [3532] var (os.path.exists) [3534] isdir.PyArgumentList (isdir.PyArgumentList) [3531] var (os.path.isdir) [3533]

para recv para recv exists (exists) [3528] map isdir (isdir) [3527]

2.



3.



4

