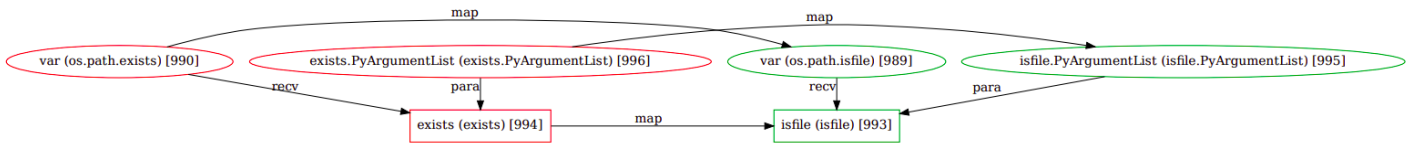


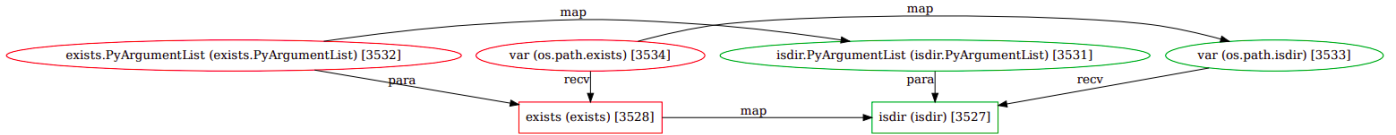
No	Before	After
1	<code>os.path.exists(path)</code>	<code>os.path.isfile(path)</code>
2	<code>os.path.exists(path)</code>	<code>os.path.isdir(path)</code>
3	<pre>static = [1, 2, 3] ... for i in range(len(static)): ... dim = static[i] ... print(dim)</pre>	<pre>static = [1, 2, 3] ... for i, dim in enumerate(static):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

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

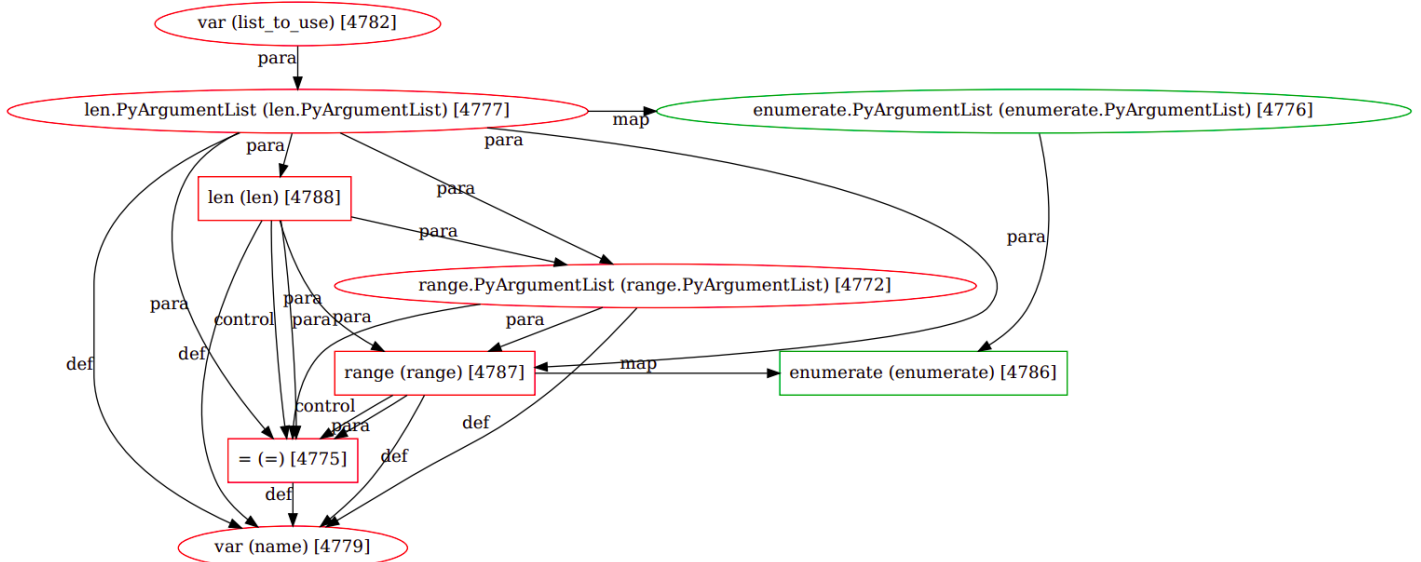
1.



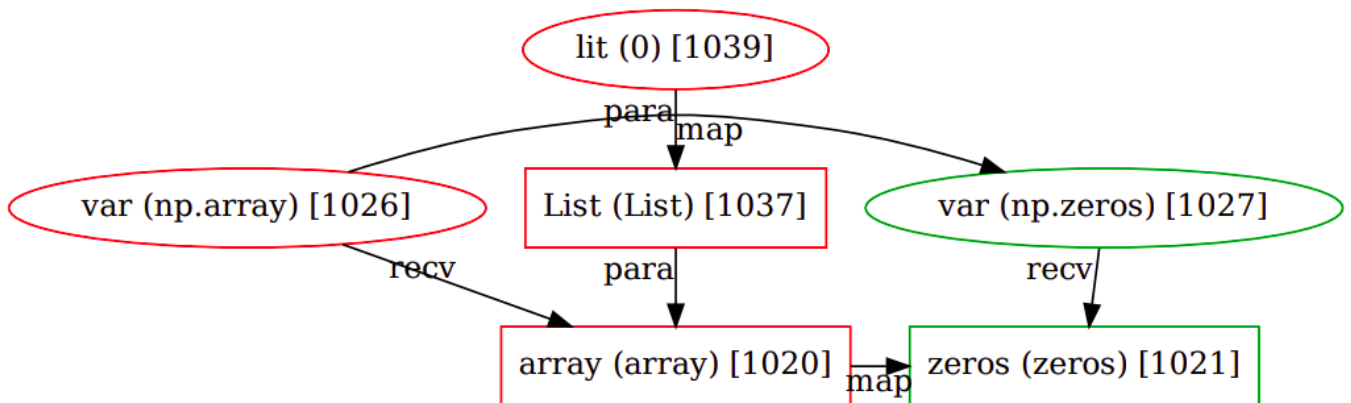
2.



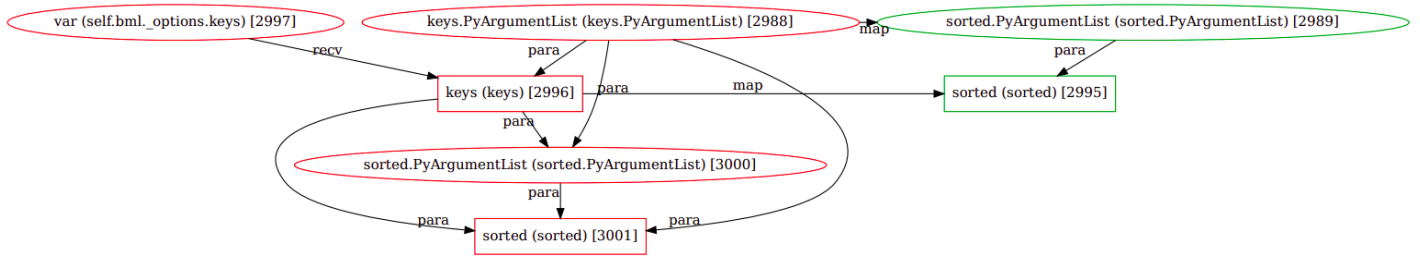
3.



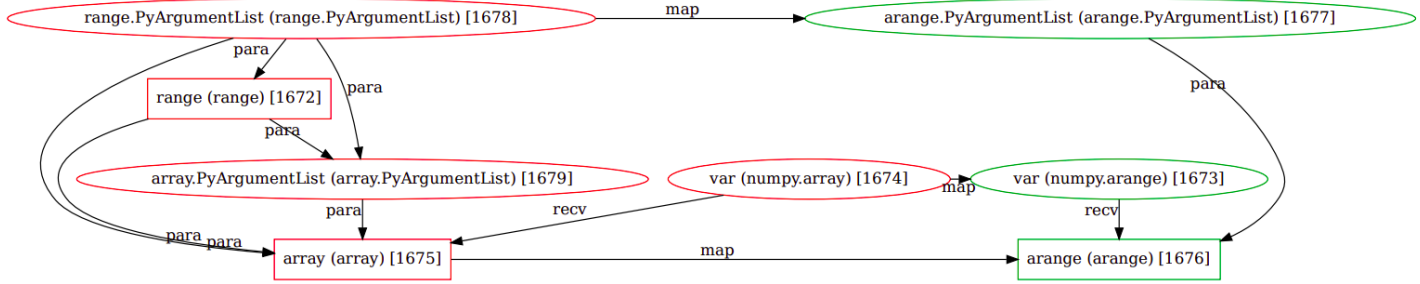
4.



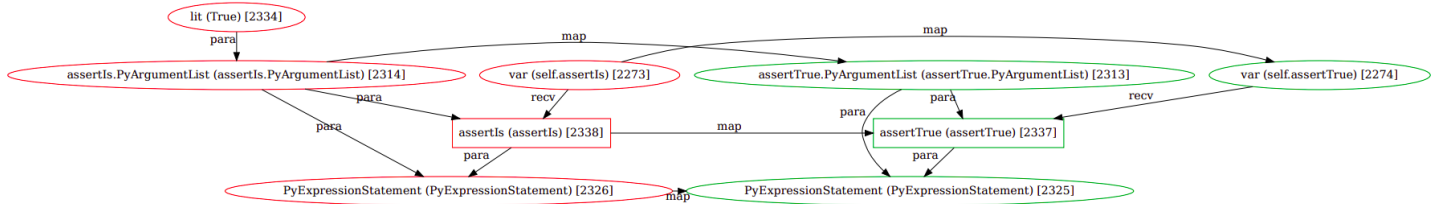
5.



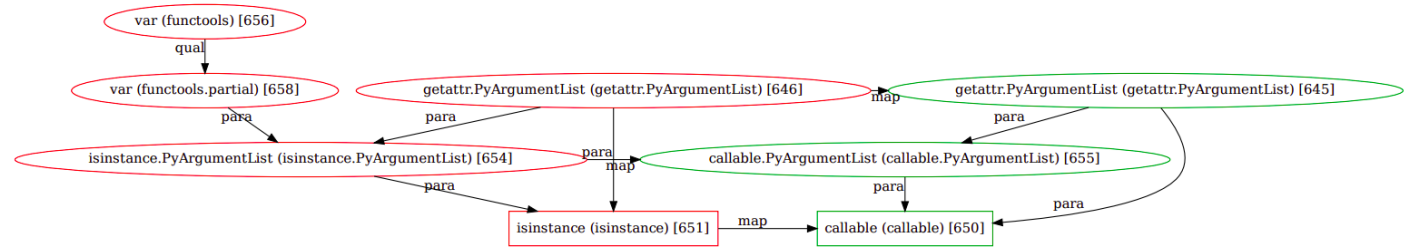
6.



7.



8.



9.

