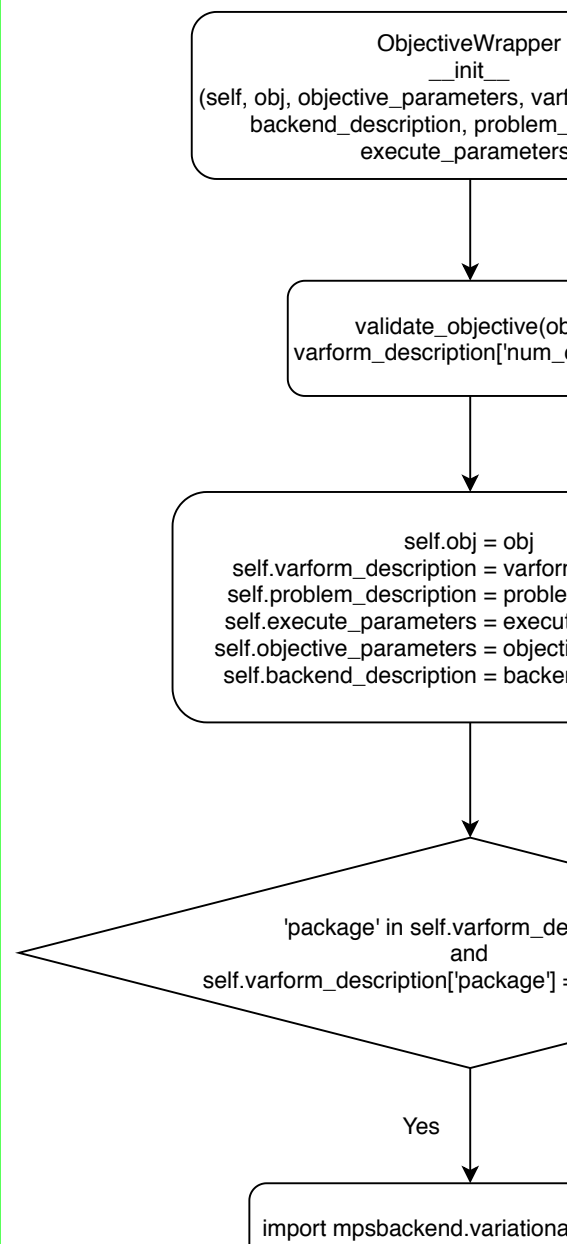


Objective

Provides fun
objective



Wrapper.py

functions for creating the
function to be used

form_description,
description,
)

obj,
qubits'])

m_description
m_description
te_parameters
ve_parameters
nd_description

description
== 'mpsbackend'

l_forms as

No

self.var_form =
VarForm(varform_description=varform_description,
problem_description=problem_description)

ObjectiveW
get_ob
(self)

ObjectiveW
f(theta

self.points.append

resstrs
self.var_form.n
backend_description=self.
execute_parameters=self.

self.backend_description]
and
'statevector' in self.backen

rapper
obj

rapper
)

end(theta)

=
un(theta,
backend_description,
execute_parameters)

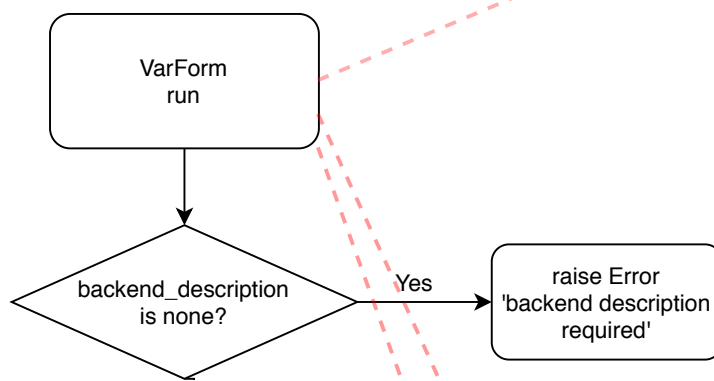
'package'] == 'qiskit'
d_description['name']

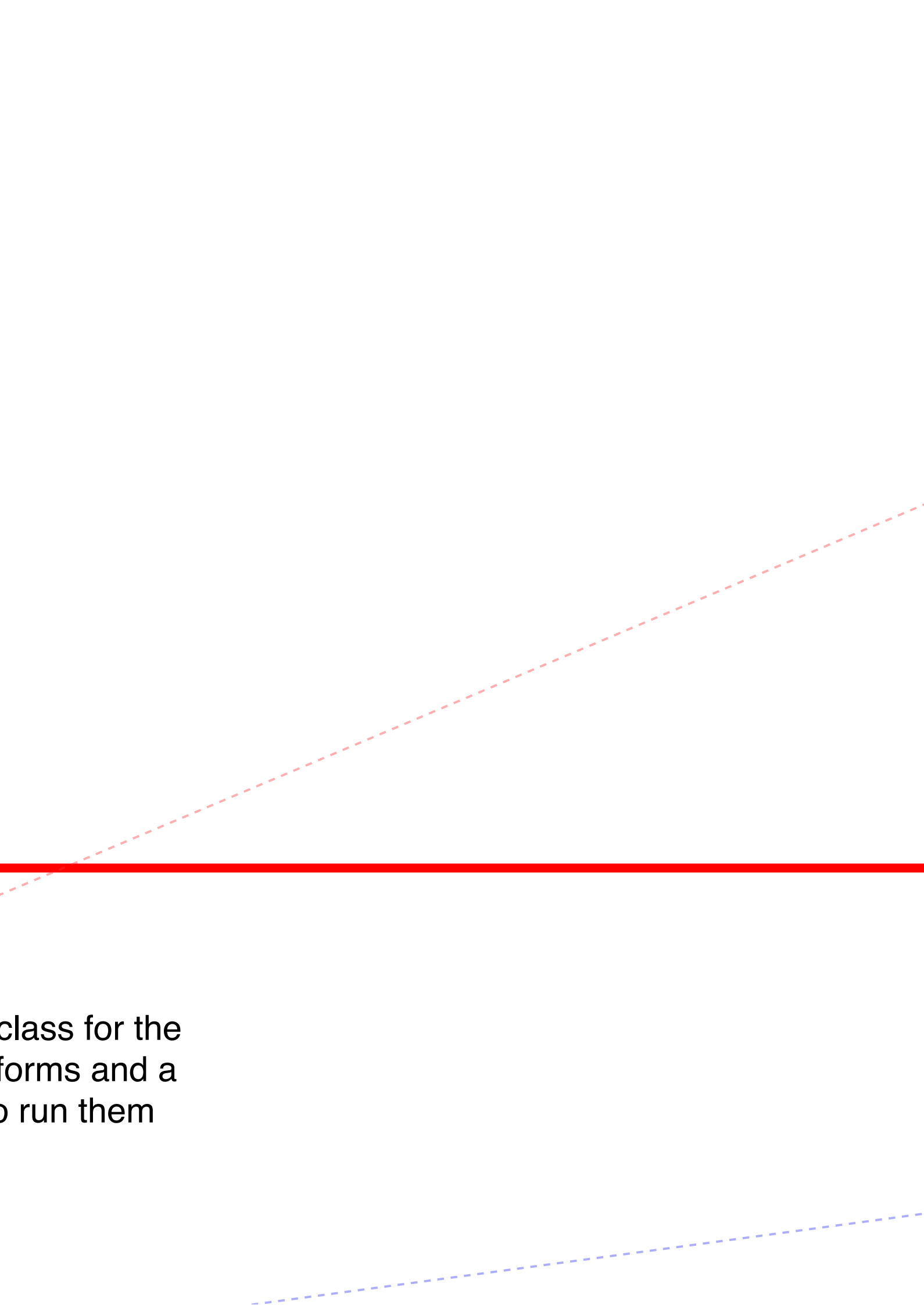
objective_value =
obj_from_statevector(resstrs,
self.obj)



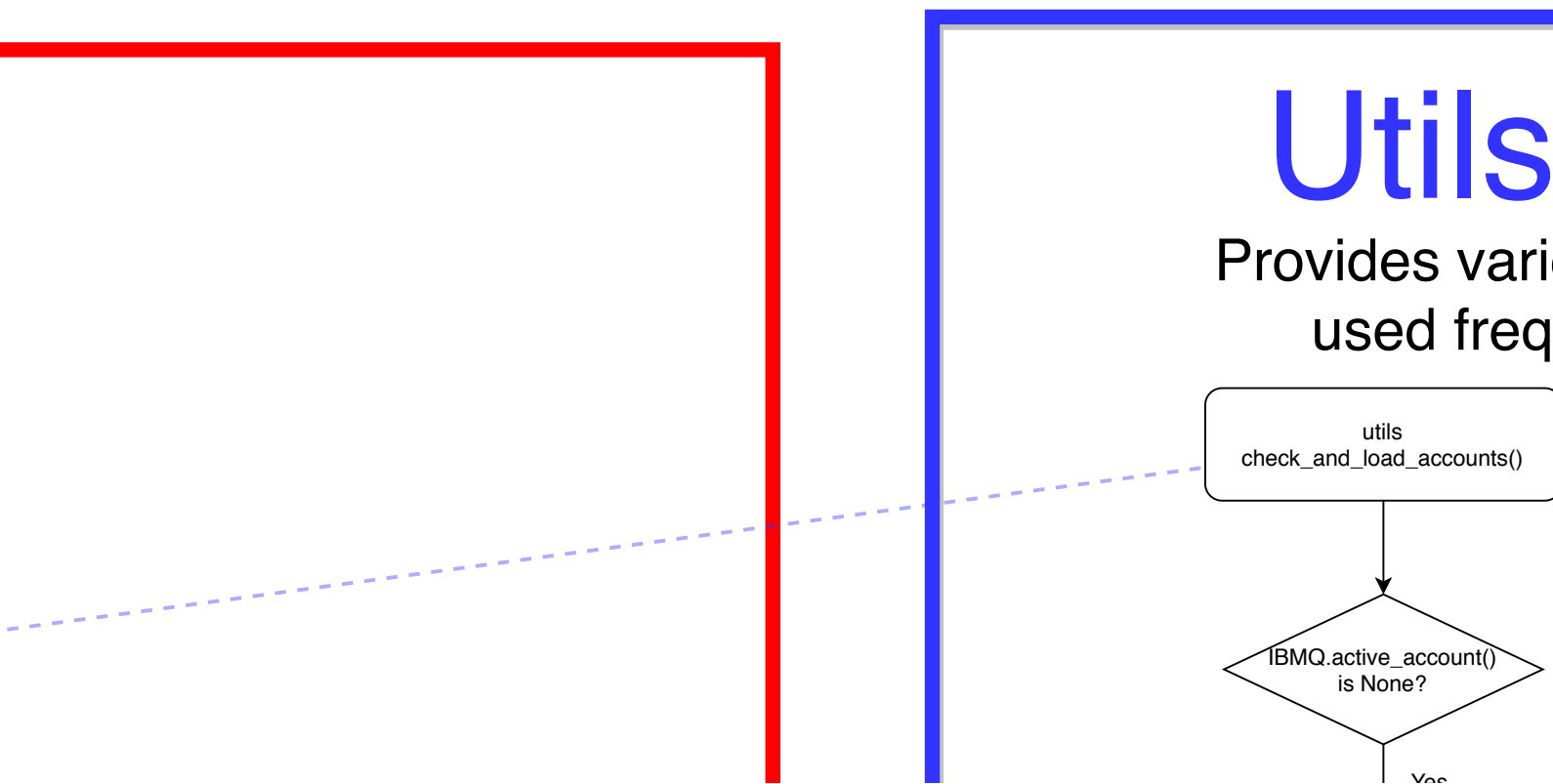
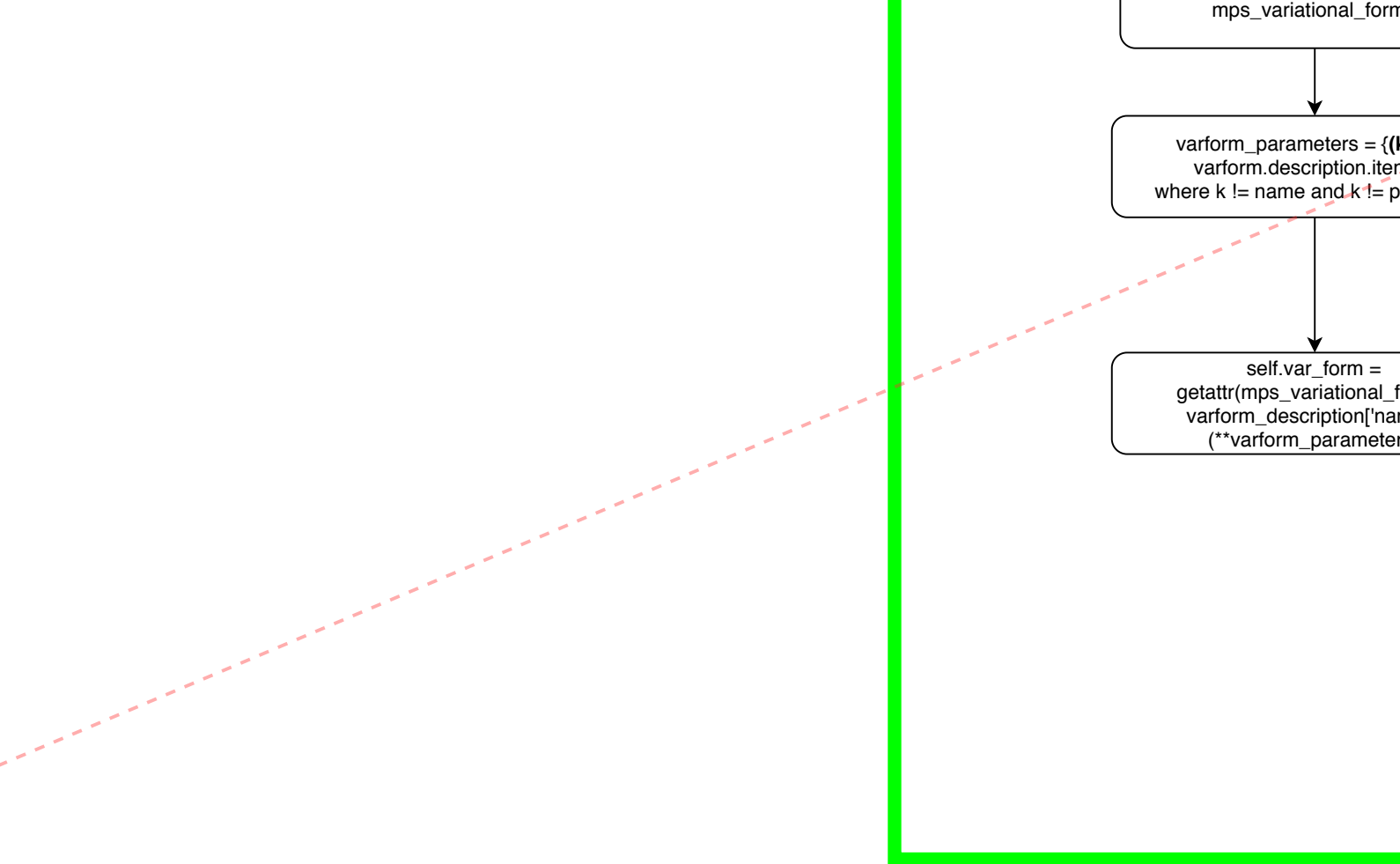
VarForm.py

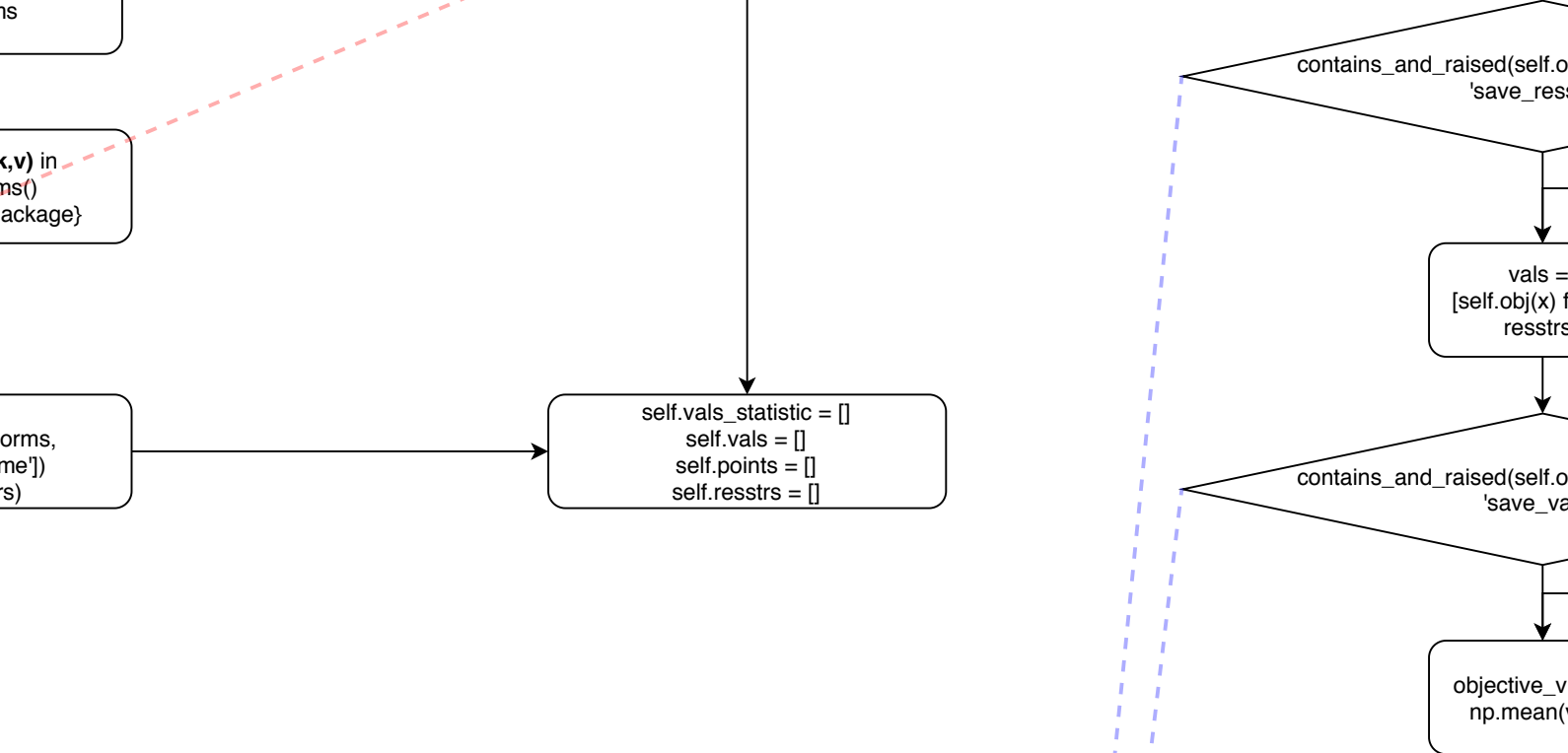
Provides a
variational f
function to





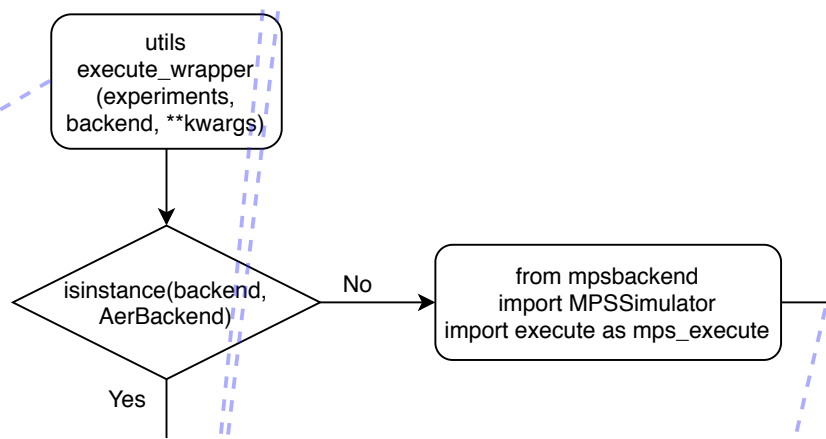
class for the
forms and a
to run them

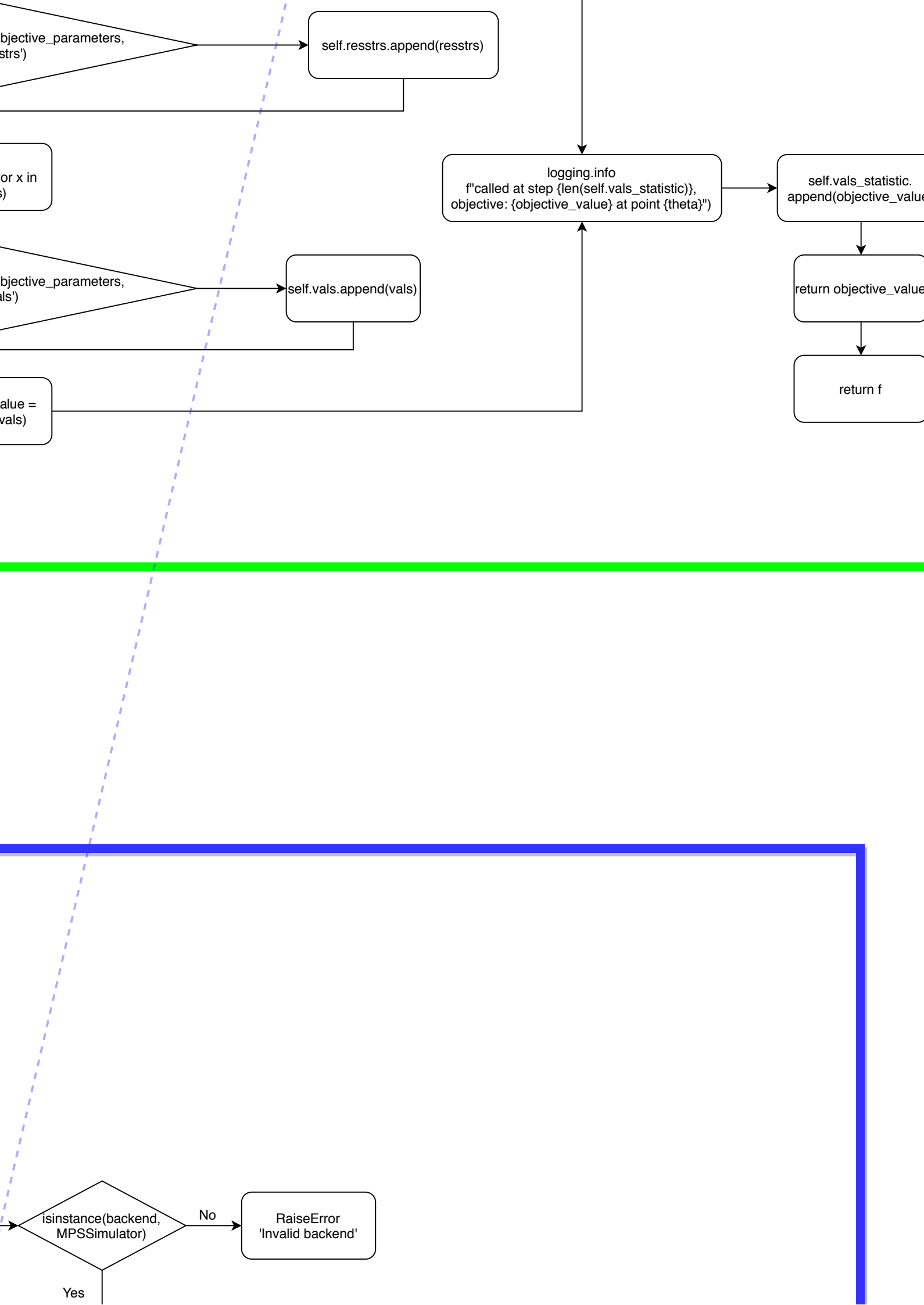




.py

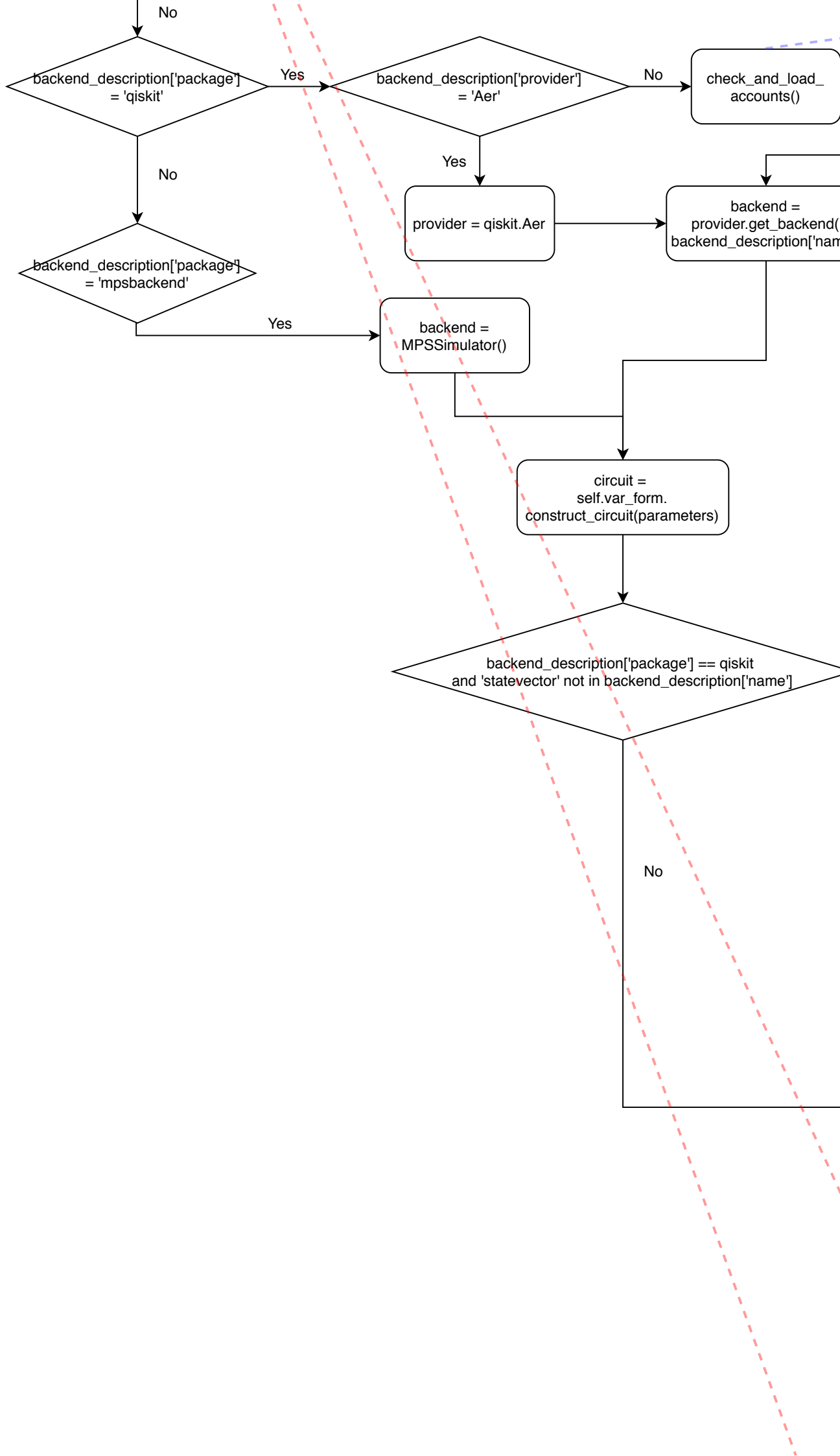
ous utility function that are
uently in other classes

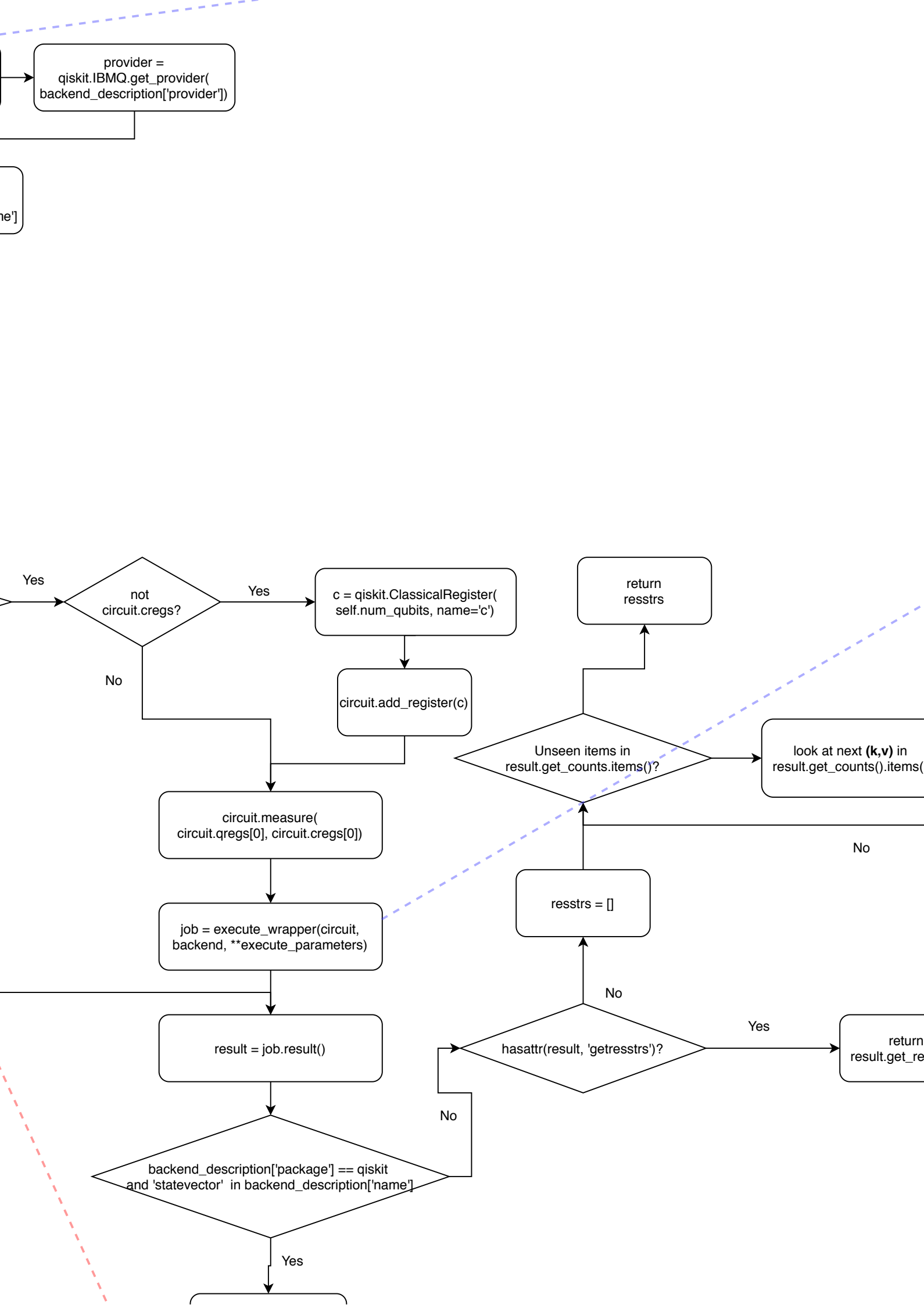


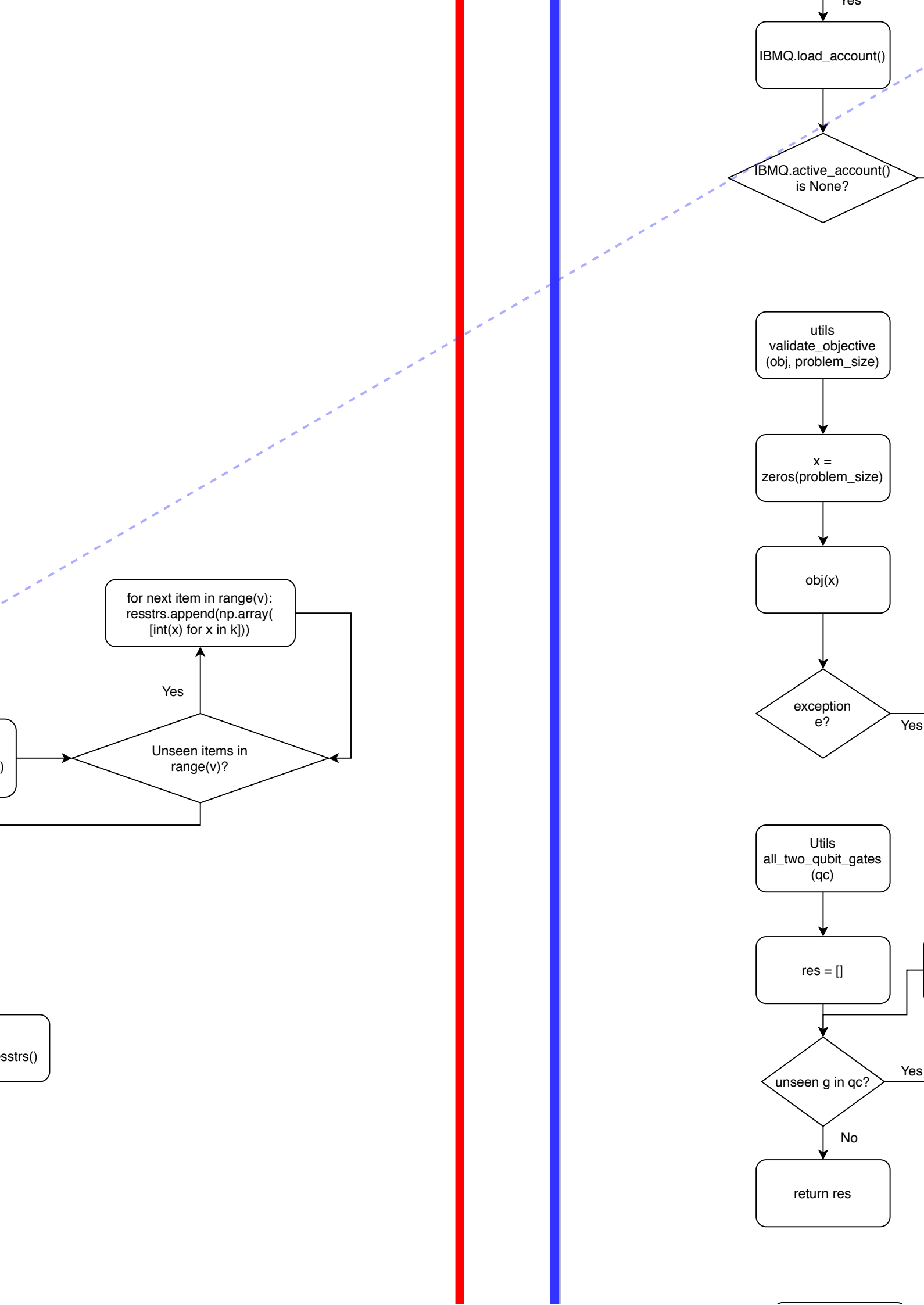


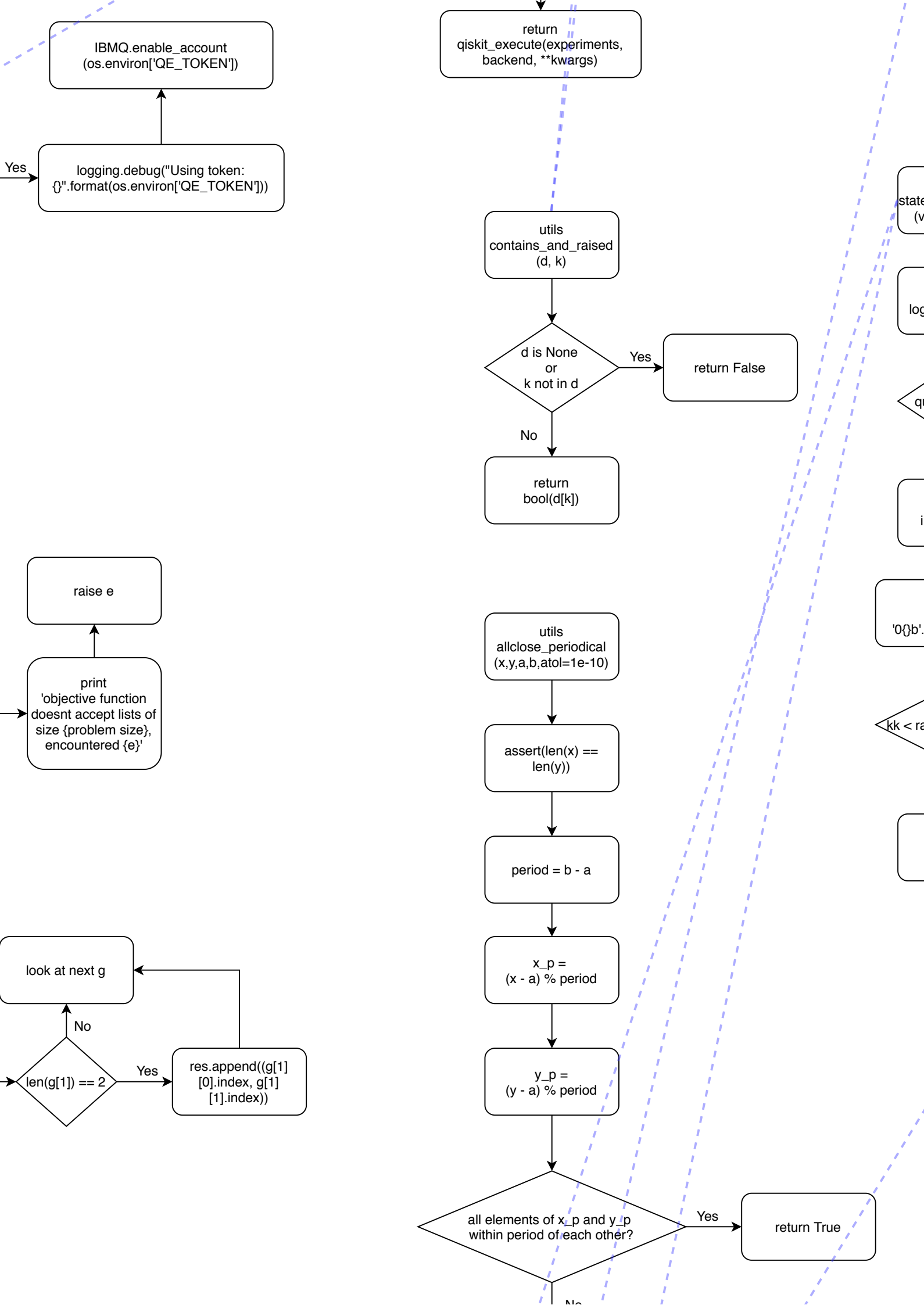
e)

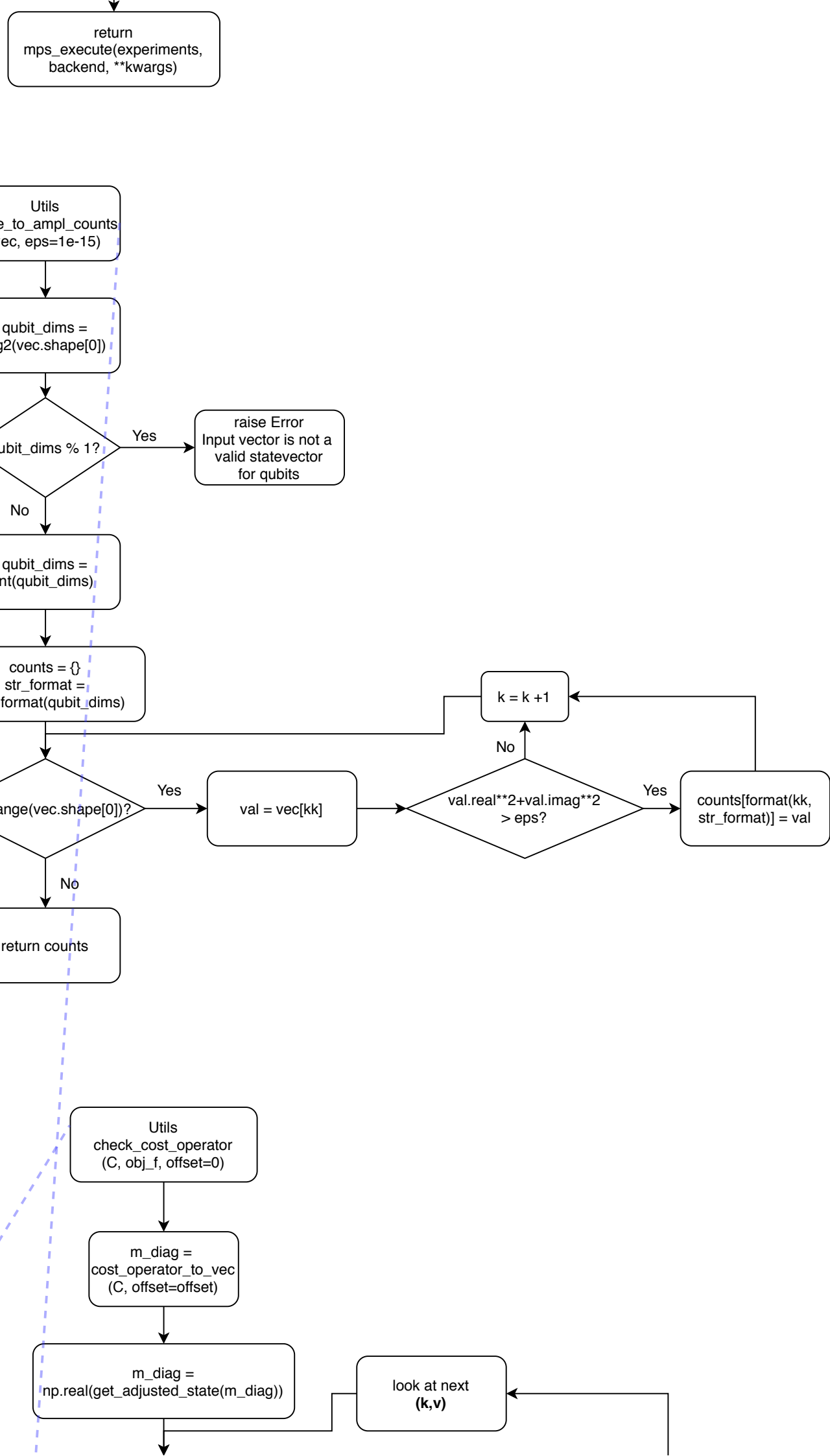
,

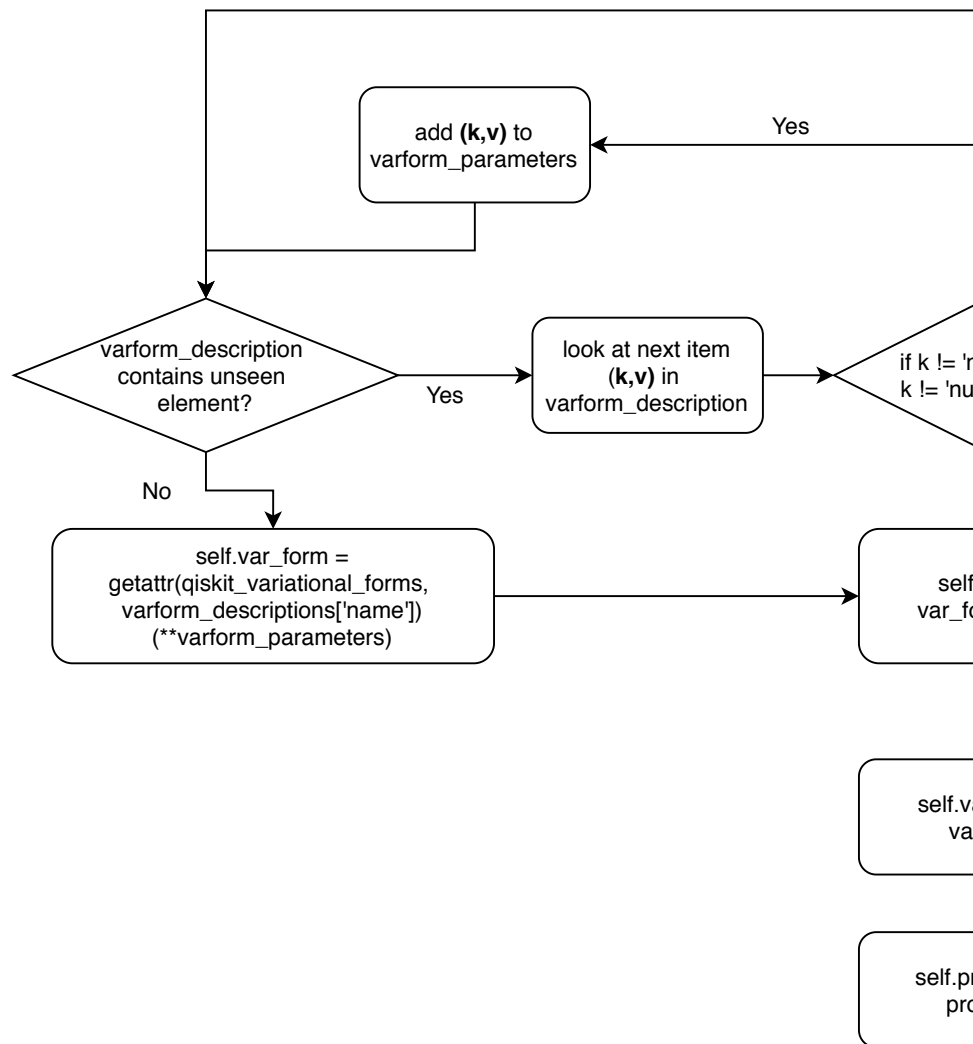


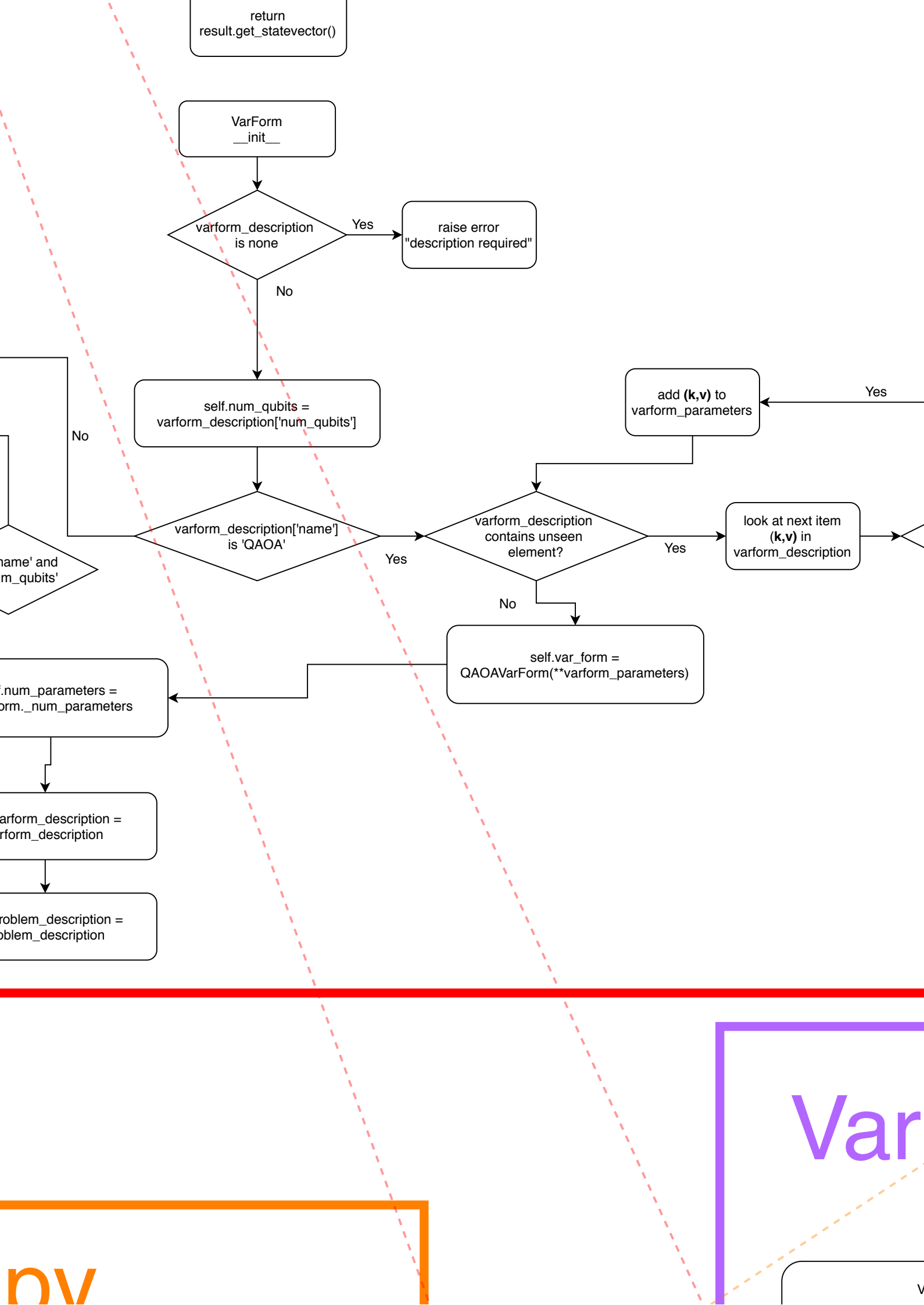


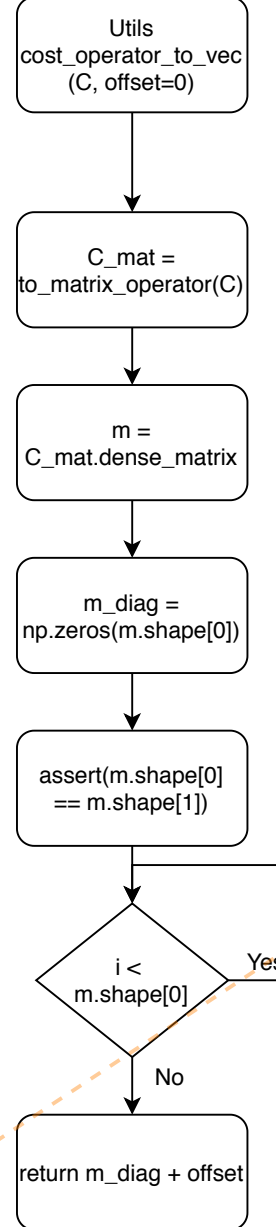
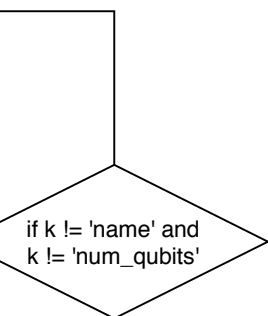






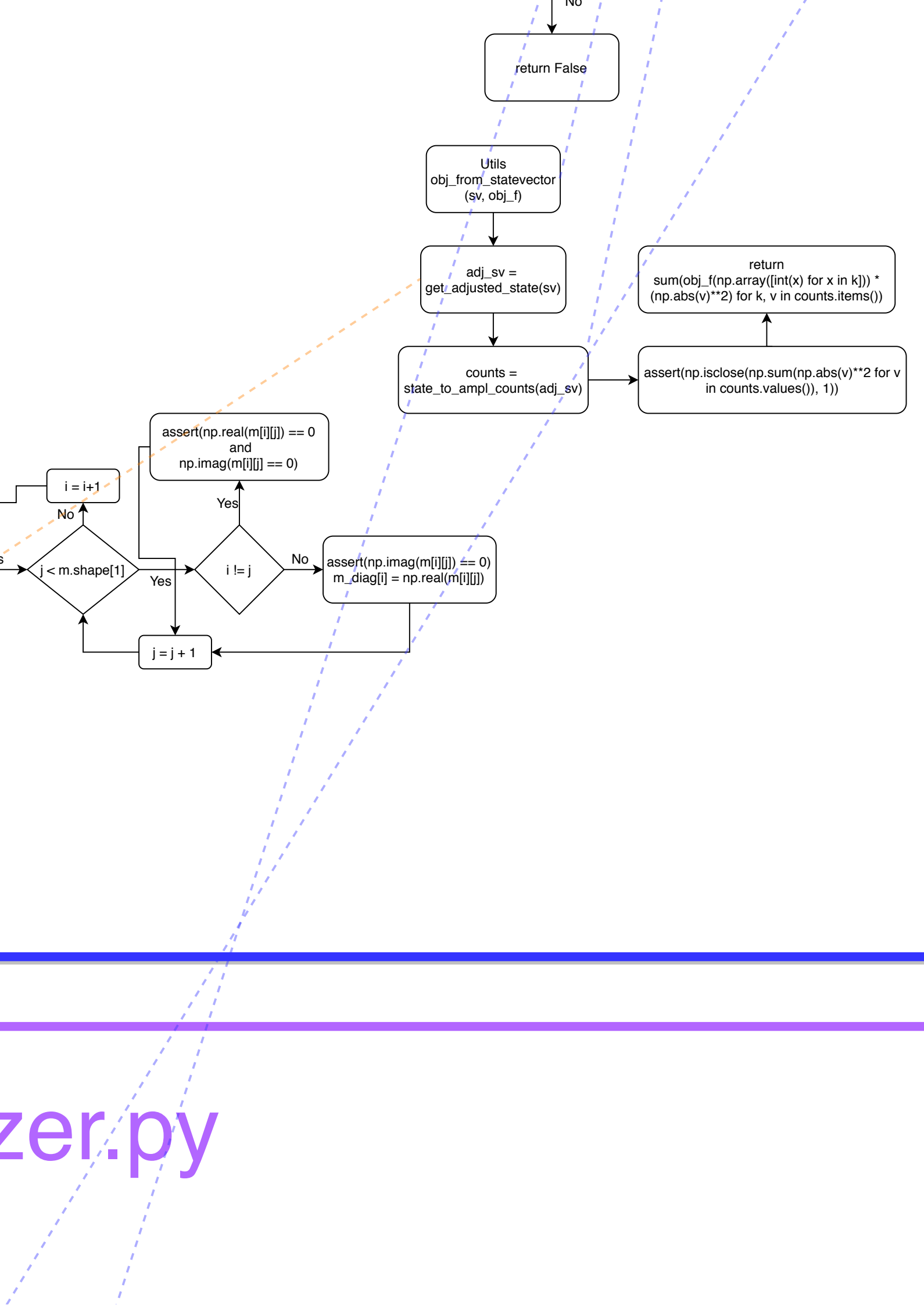


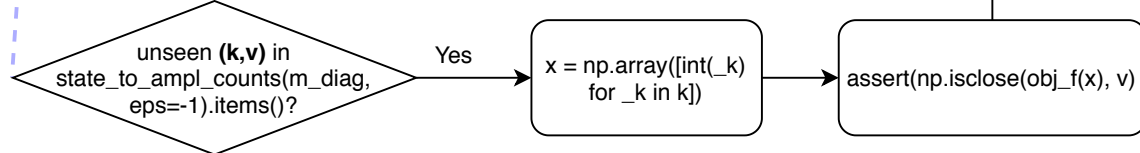


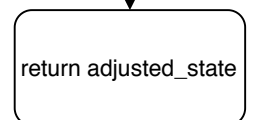
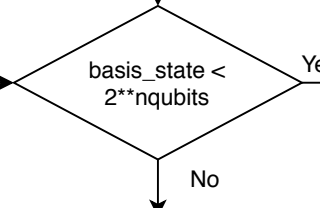
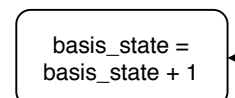
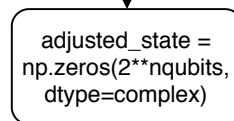
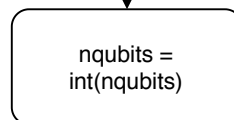
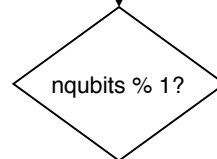
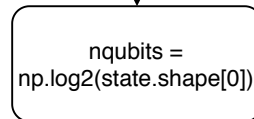
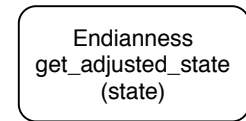
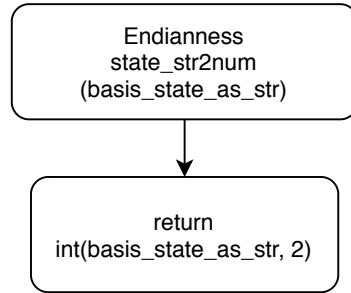
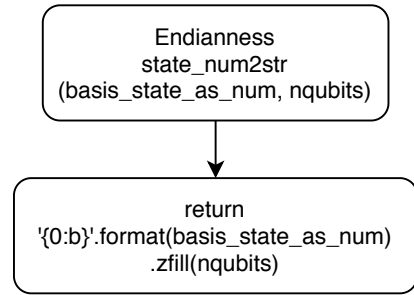


VariationalQuantumOptimizer

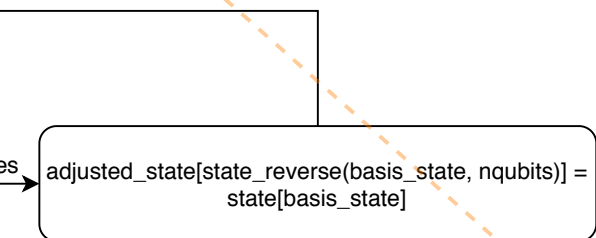
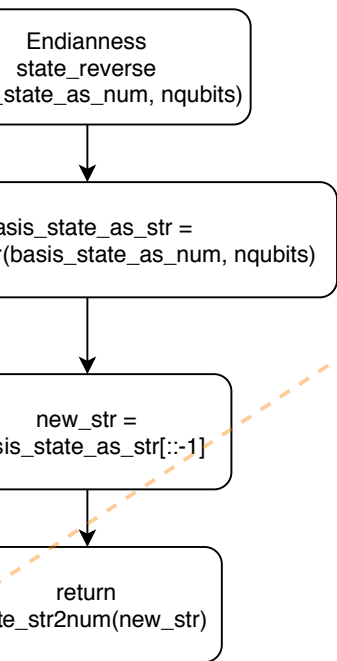
Provides functions for
optimizing the
variational forms







Py



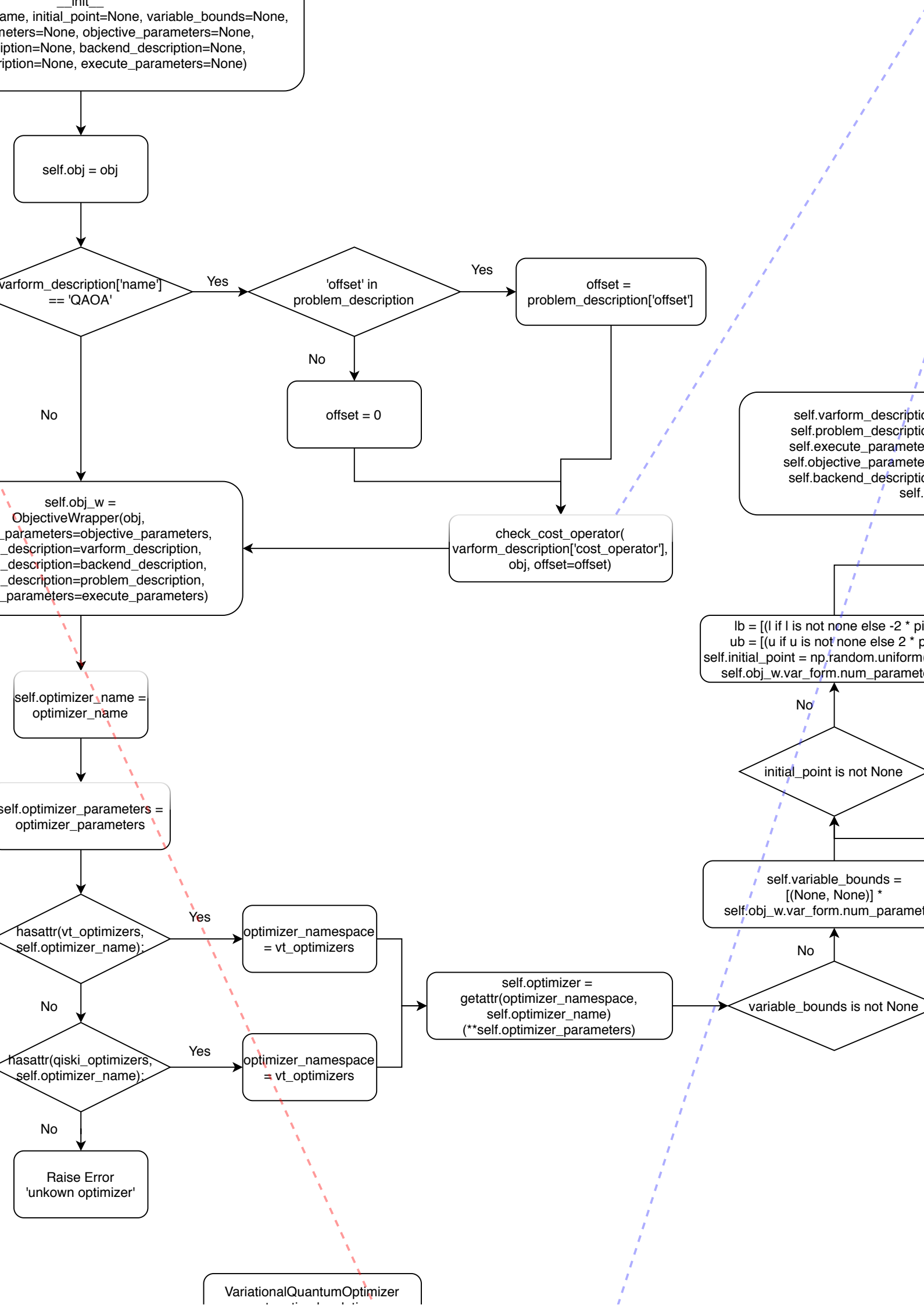
(self, obj, optimizer_n
optimizer_param
varform_descr
problem_descr

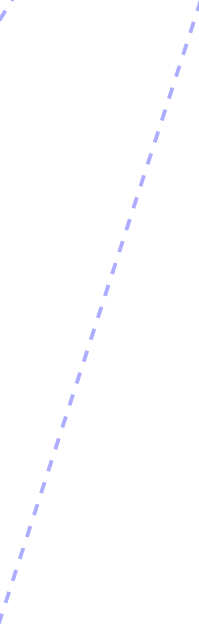
objective.
varform
backend
problem
execute

\$

<

<





on = varfrom_description
on = problem_description
rs = execute_parameters
rs = objective_parameters
on = backend_description
res = {}

)]
i)]
(lb, ub,
ers)

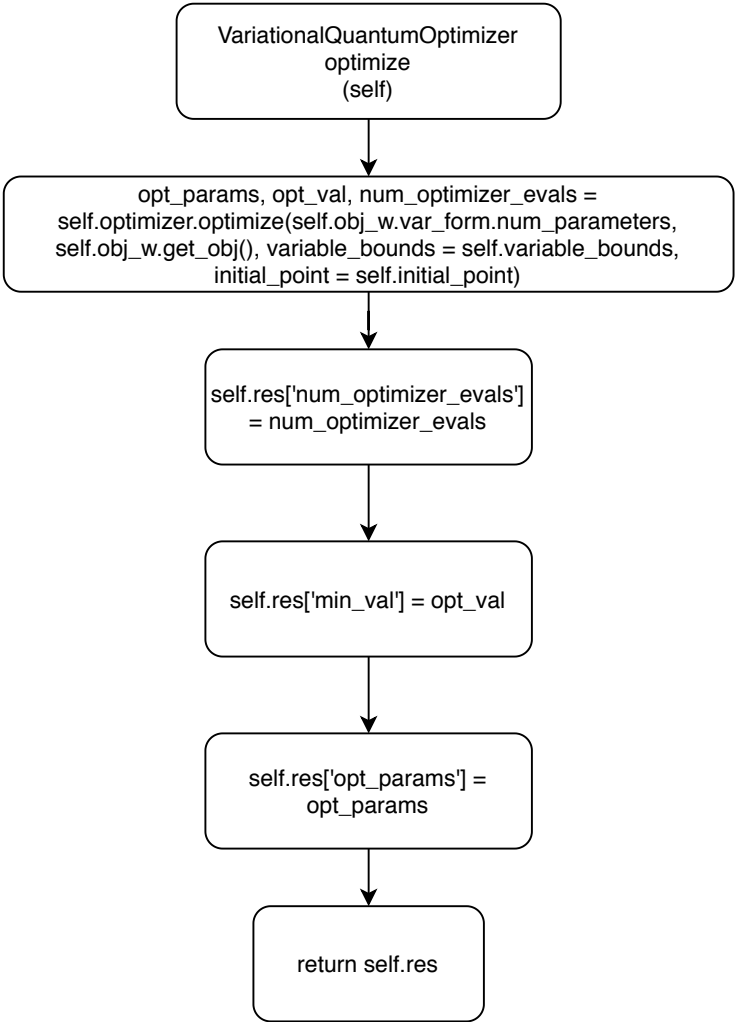
Yes

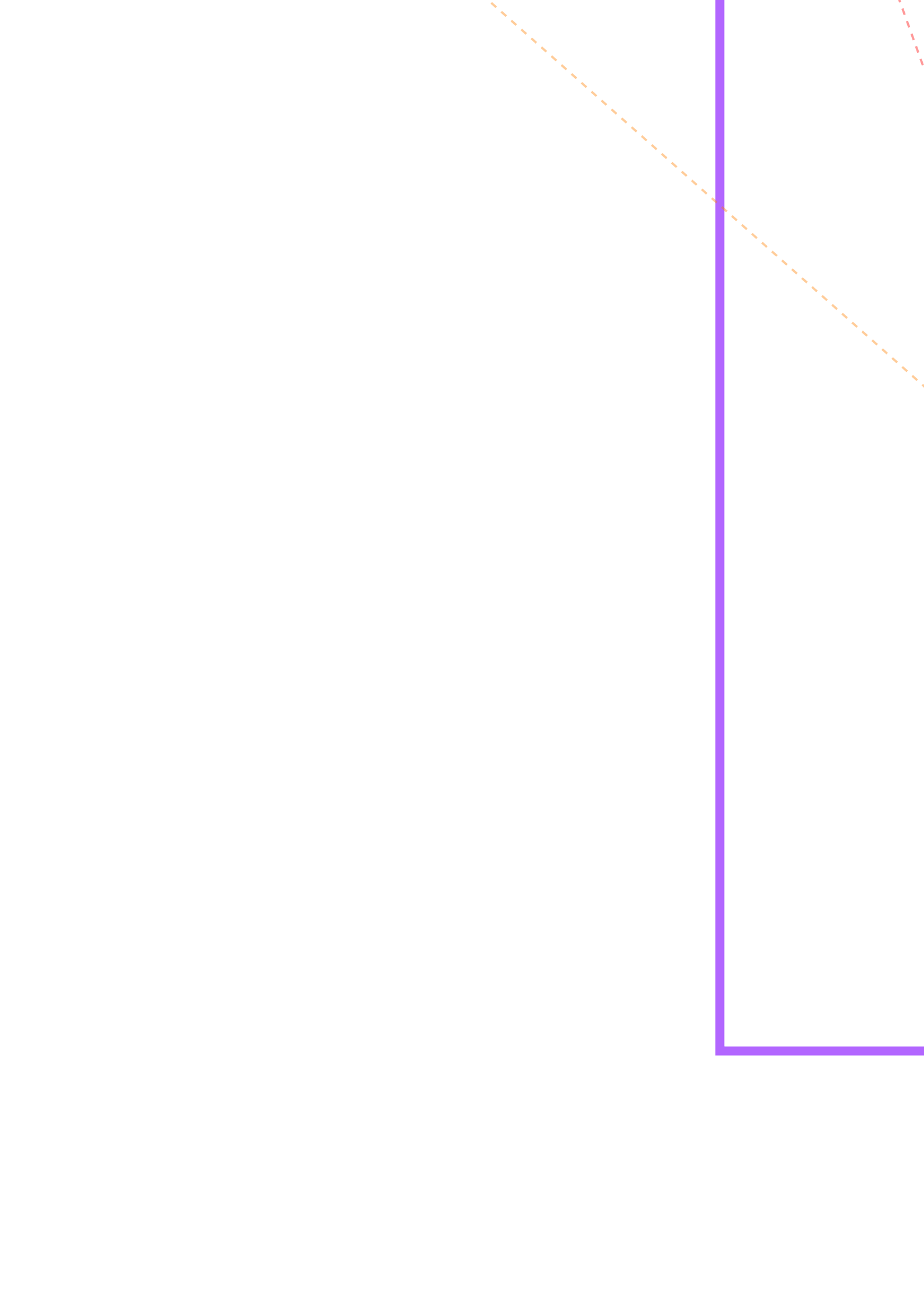
self.initial_point =
initial_point

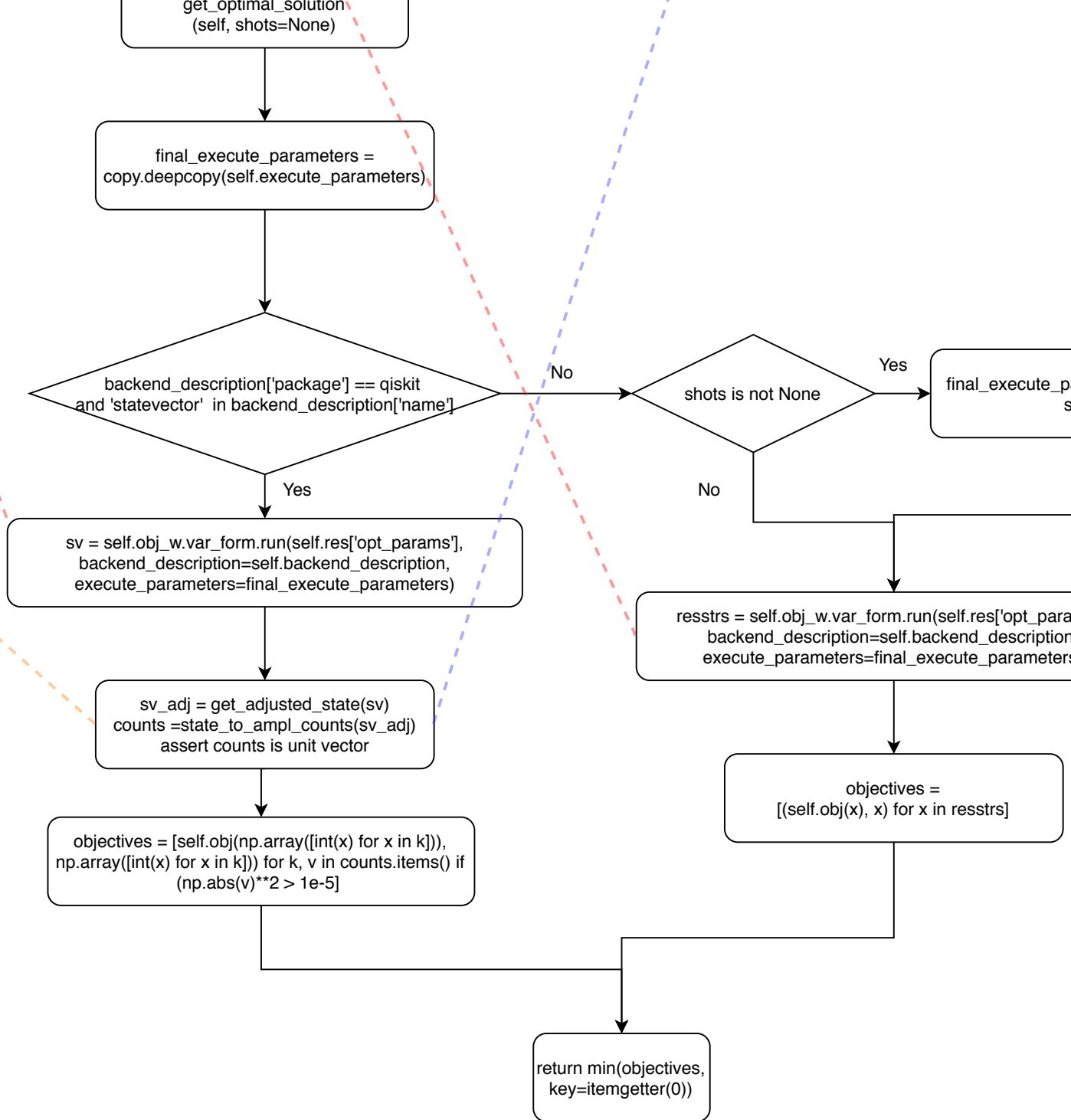
ters

Yes

self.variable_bounds =
variable_bounds







```
parameters['shots'] =  
shots
```

```
ms'],  
l,  
s)
```



