

#####

# TESTS

#

# TEST 8e

# October 12, 2020, 7 am

""

#####

# ENGLISH EXAMPLE

(venv) gerd@gerd-ub2:~/env/komega/tst\$ python3 komega-v08e.py

1 is START

2 is EDIT P and V

3 is EDIT S

4 is EDIT X

5 is SIMULATION

6 is EVALUATION

7 is STOP

Enter a Number [1-7] for Menu Option

2

!!You have selected the state :

EDIT P and V

Here you can describe your problem and your vision with regard to different questions.

You will be asked to the following topics:

1 is PROBLEM

2 is VISION

3 is REGION

4 is TIME

5 is PERSONS (Individuals or Roles)

Here is a list of all Problem-Vision documents so far:

['MariaBibliothek1', 'MariaBuch1', 'PeterTanken7', 'PeterTanken8', 'PeterTanken4', 'pvr1', 'PeterMussTanken', 'PeterTanken5', 'pvd1', 'PeterTanken6', 'PeterTanken1']

Enter a NAME for your problem

MaryBook1

Feedback Problem Name :

MaryBook1

Enter your PROBLEM in plain text

Mary does not yet have the book from Kaube

Feedback Problem Now :

Mary does not yet have the book from Kaube

Enter your VISION of a better state in the future in plain text

Mary has the book from Kaube

Feedback Problem Future :

Mary has the book from Kaube

Enter the NAME of the CITY or REGION you are in

Frankfurt

Feedback Problem Region :  
Frankfurt

TIME model [From, Until,Cycleunit [Y or M or D or H]]  
2020-10-12 7 am, 2020-10-12 7 pm, H  
Feedback Problem TimeModel :  
['2020-10-12 7 am', ' 2020-10-12 7 pm', ' H']

Which kinds of PERSONS (individuals or roles) are important? Write a list, comma separated please :

Mary, book seller  
Feedback Problem Persons :  
['Mary', ' book seller']

The final problem document with the name  
MaryBook1

is the following one:

```
{'problem': 'Mary does not yet have the book from Kaube', 'vision': 'Mary has the book from Kaube', 'region': 'Frankfurt', 'time': '2020-10-12 7 am, 2020-10-12 7 pm, H', 'persons': 'Mary, book seller'}
```

STOP MAIN LOOP != 'Y', CONTINUE = 'Y'

Y

1 is START

2 is EDIT P and V

3 is EDIT S

4 is EDIT X

5 is SIMULATION

6 is EVALUATION

7 is STOP

Enter a Number [1-7] for Menu Option

3

!!You have selected the state :

EDIT S

Here You can describe an actual state S related to your problem.

Here is a list of all state descriptions so far:

```
['MariaBibliothek1', 'MariaBuch1', 'PeterTanken7', 'PeterTanken8']
```

Do You want to load a document S? [Y,N]

N

Enter a NAME for the new state description:

MaryBook1

Feedback STATE Name :

MaryBook1

Enter an expression for your state description in plain text :

Mary does not yet have the book from Kaube

Feedback Your last expression :

Mary does not yet have the book from Kaube

Feedback Your document S so far :

```
{'Mary does not yet have the book from Kaube'}
```

STOP Editing S != Y, CONTINUE = 'Y'

Y

Enter an expression for your state description in plain text :

Mary is at home

Feedback Your last expression :

Mary is at home

Feedback Your document S so far :

{'Mary is at home', 'Mary does not yet have the book from Kaube'}

STOP Editing S != Y', CONTINUE = 'Y'

Y

Enter an expression for your state description in plain text :

There are bookshops and libraries in the city

Feedback Your last expression :

There are bookshops and libraries in the city

Feedback Your document S so far :

{'Mary is at home', 'There are bookshops and libraries in the city', 'Mary does not yet have the book from Kaube'}

STOP Editing S != Y', CONTINUE = 'Y'

Y

Enter an expression for your state description in plain text :

Mary wants to have the book before Tuesday 13.October 2020 7 pm

Feedback Your last expression :

Mary wants to have the book before Tuesday 13.October 2020 7 pm

Feedback Your document S so far :

{'Mary wants to have the book before Tuesday 13.October 2020 7 pm', 'Mary is at home', 'There are bookshops and libraries in the city', 'Mary does not yet have the book from Kaube'}

STOP Editing S != Y', CONTINUE = 'Y'

n

Your final State Description document is now :

{'Mary wants to have the book before Tuesday 13.October 2020 7 pm', 'Mary is at home', 'There are bookshops and libraries in the city', 'Mary does not yet have the book from Kaube'}

STOP MAIN LOOP != 'Y', CONTINUE = 'Y'

Y

1 is START

2 is EDIT P and V

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5 is SIMULATION

6 is EVALUATION

7 is STOP

Enter a Number [1-7] for Menu Option

4

!!You have selected the state :

EDIT X

Here You can edit some change rules X to apply to an actual state S.

Here is a list of all rule documents so far:

['MariaBuch1', 'MariaBib2', 'MariaBib1', 'MariaBib3']

Do You want to load a document X? [Y,N]

N

Enter the name of the new rules document:

MaryBook1

CONDITION :

Mary does not yet have the book from Kaube

Your condition set so far : {'Mary does not yet have the book from Kaube'}

CONTINUE Editing Condition = 'Y', STOP != 'Y'

Y

CONDITION :

Mary is at home

Your condition set so far : {'Mary is at home', 'Mary does not yet have the book from Kaube'}

CONTINUE Editing Condition = 'Y', STOP != 'Y'

n

Enter a probability between 0.0 and 1.0

1.0

Your single rule buffer : [{'Mary is at home', 'Mary does not yet have the book from Kaube'}, '1.0']

EFFECT- :

Mary is at home

Your set eminus so far : {'Mary is at home'}

CONTINUE Editing EMinus = 'Y', STOP != 'Y'

n

EFFECT+ :

Mary goes to the bookshop

Your set eplus so far : {'Mary goes to the bookshop'}

CONTINUE Editing EPlus = 'Y', STOP != 'Y'

n

Your Rules document with name MaryBook1 is now :

```
[{'CONDITION': {'Mary is at home', 'Mary does not yet have the book from Kaube'},
'PROBABILITY': '1.0', 'EFFECT-': {'Mary is at home'}, 'EFFECT+': {'Mary goes to the
bookshop'}}]
```

CONTINUE Editing X = 'Y', STOP != 'Y'

Y

CONDITION :

Mary goes to the bookshop

Your condition set so far : {'Mary goes to the bookshop'}

CONTINUE Editing Condition = 'Y', STOP != 'Y'

n

Enter a probability between 0.0 and 1.0

1.0

Your single rule buffer : [{'Mary goes to the bookshop'}, '1.0']

EFFECT- :

Mary goes to the bookshop

Your set eminus so far : {'Mary goes to the bookshop'}

CONTINUE Editing EMinus = 'Y', STOP != 'Y'

n

EFFECT+ :

Mary enters the bookshop

Your set eplus so far : {'Mary enters the bookshop'}

CONTINUE Editing EPlus = 'Y', STOP != 'Y'

n

Your Rules document with name MaryBook1 is now :

```
[{'CONDITION': {'Mary is at home', 'Mary does not yet have the book from Kaube'},
'PROBABILITY': '1.0', 'EFFECT-': {'Mary is at home'}, 'EFFECT+': {'Mary goes to the
bookshop'}}, {'CONDITION': {'Mary goes to the bookshop'}, 'PROBABILITY': '1.0', 'EFFECT-':
{'Mary goes to the bookshop'}, 'EFFECT+': {'Mary enters the bookshop'}}]
```

CONTINUE Editing X = 'Y', STOP != 'Y'

Y

CONDITION :

Mary enters the bookshop

Your condition set so far : {'Mary enters the bookshop'}

CONTINUE Editing Condition = 'Y', STOP != 'Y'

n

Enter a probability between 0.0 and 1.0

1.0

Your single rule buffer : [{'Mary enters the bookshop'}, '1.0']

EFFECT- :

Mary enters the bookshop

Your set eminus so far : {'Mary enters the bookshop'}

CONTINUE Editing EMinus = 'Y', STOP != 'Y'

n

EFFECT+ :

Mary is in the bookshop

Your set eplus so far : {'Mary is in the bookshop'}

CONTINUE Editing EPlus = 'Y', STOP != 'Y'

Y

EFFECT+ :

Mary asks for the book from Kaube

Your set eplus so far : {'Mary is in the bookshop', 'Mary asks for the book from Kaube'}

CONTINUE Editing EPlus = 'Y', STOP != 'Y'

n

Your Rules document with name MaryBook1 is now :

```
[{'CONDITION': {'Mary is at home', 'Mary does not yet have the book from Kaube'},
'PROBABILITY': '1.0', 'EFFECT-': {'Mary is at home'}, 'EFFECT+': {'Mary goes to the
bookshop'}}, {'CONDITION': {'Mary goes to the bookshop'}, 'PROBABILITY': '1.0', 'EFFECT-':
{'Mary goes to the bookshop'}, 'EFFECT+': {'Mary enters the bookshop'}}, {'CONDITION':
{'Mary enters the bookshop'}, 'PROBABILITY': '1.0', 'EFFECT-': {'Mary enters the bookshop'},
'EFFECT+': {'Mary is in the bookshop', 'Mary asks for the book from Kaube'}}]
```

CONTINUE Editing X = 'Y', STOP != 'Y'

n

STOP MAIN LOOP != 'Y', CONTINUE = 'Y'

Y

1 is START

2 is EDIT P and V

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5 is SIMULATION

6 is EVALUATION

7 is STOP

Enter a Number [1-7] for Menu Option

5

!!You have selected the state :

SIMULATION

Here You can run a simulation SIM to check what happens with your initial state S when the change rules X will be applied repeatedly on the state S.

Do You want to load a state description S? [Y,N]

Y

Here is the list of all stored state descriptions so far :

['MaryBook1', 'MariaBibliothek1', 'MariaBuch1', 'PeterTanken7', 'PeterTanken8']

Enter a name for the document you want to load :

MaryBook1

Your State Description document is as follows :

{'Mary wants to have the book before Tuesday 13.October 2020 7 pm', 'Mary is at home', 'There are bookshops and libraries in the city', 'Mary does not yet have the book from Kaube'}

Do You want to load a rule document X? [Y,N]

Y

Here is the list of all stored rule documents so far :

['MaryBook1', 'MariaBuch1', 'MariaBib2', 'MariaBib1', 'MariaBib3']

Enter a name for the rule document you want to load :

MaryBook1

Your Rules document is as follows :

```
[{'CONDITION': {'Mary is at home', 'Mary does not yet have the book from Kaube'},
'PROBABILITY': '1.0', 'EFFECT-': {'Mary is at home'}, 'EFFECT+': {'Mary wants to the
bookshop'}}, {'CONDITION': {'Mary wants to the bookshop'}, 'PROBABILITY': '1.0', 'EFFECT-':
{'Mary wants to the bookshop'}, 'EFFECT+': {'Mary enters the bookshop'}}, {'CONDITION':
{'Mary enters the bookshop'}, 'PROBABILITY': '1.0', 'EFFECT-': {'Mary enters the bookshop'},
'EFFECT+': {'Mary is in the bookshop', 'Mary asks for the book from Kaube'}}]
```

Set S given :

{'Mary wants to have the book before Tuesday 13.October 2020 7 pm', 'Mary is at home', 'There are bookshops and libraries in the city', 'Mary does not yet have the book from Kaube'}

Actual rule :

```
{'CONDITION': {'Mary is at home', 'Mary does not yet have the book from Kaube'},
'PROBABILITY': '1.0', 'EFFECT-': {'Mary is at home'}, 'EFFECT+': {'Mary wants to the
bookshop'}}]
```

Set S after Remove :

{'Mary wants to have the book before Tuesday 13.October 2020 7 pm', 'There are bookshops and libraries in the city', 'Mary does not yet have the book from Kaube'}

Set S after Union :

{'Mary wants to have the book before Tuesday 13.October 2020 7 pm', 'Mary wants to the bookshop', 'There are bookshops and libraries in the city', 'Mary does not yet have the book from Kaube'}

Set S given :

{'Mary wants to have the book before Tuesday 13.October 2020 7 pm', 'Mary wants to the bookshop', 'There are bookshops and libraries in the city', 'Mary does not yet have the book from Kaube'}

Actual rule :

```
{'CONDITION': {'Mary wants to the bookshop'}, 'PROBABILITY': '1.0', 'EFFECT-': {'Mary wants
to the bookshop'}, 'EFFECT+': {'Mary enters the bookshop'}}]
```

Set S after Remove :

{'Mary wants to have the book before Tuesday 13.October 2020 7 pm', 'There are bookshops and libraries in the city', 'Mary does not yet have the book from Kaube'}

Set S after Union :

{'Mary wants to have the book before Tuesday 13.October 2020 7 pm', 'Mary enters the bookshop', 'There are bookshops and libraries in the city', 'Mary does not yet have the book from Kaube'}

Set S given :

{'Mary wants to have the book before Tuesday 13.October 2020 7 pm', 'Mary enters the bookshop',  
'There are bookshops and libraries in the city', 'Mary does not yet have the book from Kaube'}

Actual rule :

{'CONDITION': {'Mary enters the bookshop'}, 'PROBABILITY': '1.0', 'EFFECT-': {'Mary enters  
the bookshop'}, 'EFFECT+': {'Mary is in the bookshop', 'Mary asks for the book from Kaube'}}

Set S after Remove :

{'Mary wants to have the book before Tuesday 13.October 2020 7 pm', 'There are bookshops and  
libraries in the city', 'Mary does not yet have the book from Kaube'}

Set S after Union :

{'Mary wants to have the book before Tuesday 13.October 2020 7 pm', 'Mary is in the bookshop',  
'There are bookshops and libraries in the city', 'Mary does not yet have the book from Kaube', 'Mary  
asks for the book from Kaube'}

New set S :

{'Mary wants to have the book before Tuesday 13.October 2020 7 pm', 'Mary is in the bookshop',  
'There are bookshops and libraries in the city', 'Mary does not yet have the book from Kaube', 'Mary  
asks for the book from Kaube'}

CONTINUE Simulation = 'Y', STOP != 'Y'

n

STOP MAIN LOOP != 'Y', CONTINUE = 'Y'

n

(venv) gerd@gerd-ub2:~/env/komega/tst\$

'''