

**COM1005 Assignment 2:**

Results:

2.

H7 parent of H8

H8 parent of E

H7 grandfather of E

4.

/Jill parent of David

/Jill is female

/Jill parent of Shula

/Jill is female

/David sibling of Shula

/Shula sibling of David

/David brother of Shula

/David parent of Pip

/David is male

/Shula parent of Daniel

/Shula is female

Shula sister of David

/David uncle of Daniel

Shula aunt of Pip

Pip cousin of Daniel

Pip nephew of Shula

David uncle of Daniel

Daniel cousin of Pip

Daniel nephew of David

5.

My code came out with a very long answer, so here is the last block:

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kf= [Jill mother of David, Jill mother of Shula, David father of Pip, Shula mother of Daniel, David brother of Shula, Jill parent of David, Jill is female, Jill
parent of Shula, Jill is female, David parent of Pip, David is male, Shula parent of Daniel, Shula is female, David uncle of Daniel, David sibling of David,
David sibling of Shula, David sibling of David, Shula sibling of David, Jill aunt of David, Shula aunt of David, David cousin of David, Shula sibling of David,
Shula sibling of Shula, David sibling of Shula, Shula sibling of Shula, Jill aunt of Shula, Shula aunt of Shula, David cousin of Shula, Shula cousin of Shula,
Pip sibling of Pip, Pip sibling of Pip, Jill aunt of Pip, Shula aunt of Pip, Daniel cousin of Pip, Daniel sibling of Daniel, Daniel sibling of Daniel, Jill aunt
of Daniel, Shula aunt of Daniel, David uncle of Daniel, David cousin of Daniel, Shula cousin of Daniel, Pip cousin of Daniel, Daniel cousin of Daniel, Shula
sister of David, Shula sister of David, Shula sister of Shula, Shula sister of Shula, Shula aunt of Pip, Shula aunt of ?c, Shula aunt of ?c, Shula aunt of ?c,
Daniel cousin of Pip, Daniel nephew of David, David brother of David, David brother of Shula, David brother of David, Shula sister of David, Shula brother of
David, David cousin of David, David cousin of Shula, David nephew of Jill, David cousin of Daniel, David nephew of Shula, Shula sister of David, Shula brother
of David, Shula sister of Shula, Shula brother of Shula, David brother of Shula, Shula sister of Shula, Shula brother of Shula, Shula cousin of David, Shula
cousin of Shula, Shula nephew of Jill, Shula cousin of Daniel, Shula nephew of Shula, Pip brother of Pip, Pip brother of Pip, Pip cousin of David, Pip cousin of
Shula, Pip nephew of Jill, Pip cousin of Daniel, Pip nephew of Shula, Daniel brother of Daniel, Daniel brother of Daniel, Daniel cousin of David, Daniel cousin
of Shula, Daniel nephew of Jill, Daniel cousin of Daniel, Daniel nephew of Shula, Daniel cousin of Pip, Daniel nephew of David, Shula aunt of Pip, Shula aunt of
Pip, Shula aunt of Daniel, Shula aunt of Daniel, Pip cousin of Daniel, Pip nephew of Shula, Daniel brother of Daniel, ?c nephew of Shula, ?c cousin of Daniel, ?c
nephew of Shula, ?c cousin of Daniel, ?c nephew of Shula, David uncle of Pip, David uncle of Daniel, David uncle of Pip, Shula aunt of Pip, Shula uncle of Pip,
Shula aunt of Pip, Shula uncle of Daniel, Shula aunt of Daniel, Shula aunt of Daniel, Shula uncle of Daniel, Shula uncle of Daniel, Pip
cousin of Daniel, Pip nephew of Shula, Pip cousin of Daniel, Pip nephew of Shula, Daniel cousin of Daniel, Daniel nephew of Shula, Daniel cousin of Daniel,
Daniel nephew of Shula, Pip cousin of Pip, Pip nephew of David, Daniel cousin of Pip, Daniel nephew of David, Pip cousin of Pip, Pip nephew of David, Pip cousin
of Daniel, Pip nephew of Shula, Pip cousin of Daniel, Pip nephew of Shula, Pip cousin of Daniel, Pip nephew of Shula, Pip cousin of Daniel, Pip nephew of Shula,
Daniel cousin of Daniel, Daniel nephew of Shula, Daniel nephew of Shula, Daniel cousin of Daniel, Daniel nephew of Shula, Daniel nephew of David, Daniel cousin of
Daniel, Daniel nephew of Shula, Daniel cousin of Daniel, Daniel nephew of Shula]
tp= [Daniel nephew of Shula]
pursuing Daniel nephew of Shula
[Jill mother of David, Jill mother of Shula, David father of Pip, Shula mother of Daniel, David brother of Shula, Jill parent of David, Jill is female, Jill
parent of Shula, Jill is female, David parent of Pip, David is male, Shula parent of Daniel, Shula is female, David uncle of Daniel, David sibling of David,
David sibling of Shula, David sibling of David, Shula sibling of David, Jill aunt of David, Shula aunt of David, David cousin of David, Shula sibling of David,
Shula sibling of Shula, David sibling of Shula, Shula sibling of Shula, Jill aunt of Shula, Shula aunt of Shula, David cousin of Shula, Shula cousin of Shula,
Pip sibling of Pip, Pip sibling of Pip, Jill aunt of Pip, Shula aunt of Pip, Daniel cousin of Pip, Daniel sibling of Daniel, Daniel sibling of Daniel, Jill aunt
of Daniel, Shula aunt of Daniel, David uncle of Daniel, David cousin of Daniel, Shula cousin of Daniel, Pip cousin of Daniel, Daniel cousin of Daniel, Shula
sister of David, Shula sister of David, Shula sister of Shula, Shula sister of Shula, Shula aunt of Pip, Shula aunt of ?c, Shula aunt of ?c, Shula aunt of ?c,
Daniel cousin of Pip, Daniel nephew of David, David brother of David, David brother of Shula, David brother of David, Shula sister of David, Shula brother
of David, David cousin of David, David cousin of Shula, David nephew of Jill, David cousin of Daniel, David nephew of Shula, Shula sister of David, Shula brother
of David, Shula sister of Shula, Shula brother of Shula, David brother of Shula, Shula sister of Shula, Shula brother of Shula, Shula cousin of David, Shula
cousin of Shula, Shula nephew of Jill, Shula cousin of Daniel, Shula nephew of Shula, Pip brother of Pip, Pip brother of Pip, Pip cousin of David, Pip cousin of

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9/5/16

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Harrison Cooper

Shula, Pip nephew of Jill, Pip cousin of Daniel, Pip nephew of Shula, Daniel brother of Daniel, Daniel brother of Daniel, Daniel cousin of David, Daniel cousin of Shula, Daniel nephew of Jill, Daniel cousin of Daniel, Daniel nephew of Shula, Daniel cousin of Pip, Daniel nephew of David, Shula aunt of Pip, Shula aunt of Pip, Shula aunt of Daniel, Shula aunt of Daniel, Pip cousin of Daniel, Pip nephew of Shula, 7c cousin of Daniel, 7c nephew of Shula, 7c cousin of Daniel, 7c nephew of Shula, 7c cousin of Daniel, 7c nephew of Shula, David uncle of Pip, David uncle of Daniel, David uncle of Pip, Shula aunt of Pip, Shula uncle of Pip, Shula aunt of Pip, Shula uncle of Pip, Shula aunt of Daniel, Shula uncle of Daniel, David uncle of Daniel, Shula aunt of Daniel, Shula uncle of Daniel, Pip cousin of Daniel, Pip nephew of Shula, Pip cousin of Daniel, Pip nephew of Shula, Daniel cousin of Daniel, Daniel nephew of Shula, Daniel cousin of Daniel, Daniel nephew of Shula, Pip cousin of Pip, Pip nephew of David, Daniel cousin of Pip, Daniel nephew of David, Pip cousin of Pip, Pip nephew of David, Pip cousin of Daniel, Pip nephew of Shula, Pip cousin of Daniel, Pip nephew of Shula, Pip cousin of Daniel, Pip nephew of Shula, Daniel cousin of Daniel, Daniel nephew of Shula, Daniel cousin of Daniel, Daniel nephew of Shula, Daniel nephew of David, Daniel cousin of Daniel, Daniel nephew of Shula, Daniel cousin of Daniel, Daniel nephew of Shula]

as you can see, it just iterated everything to every rule.

6.

(all times in milliseconds)

The run time of RunRuleNet was:

Start time: 1462826104447

End time: 1462826104473

Time Taken: 26

The run time of TestFChain was:

Start time: 1462826313454

End time: 1462826313521

Time Taken: 67