suffices [rule1] (A, A) = true

suffices [rule1] (A, B) = false

suffices [rule1] (Mix (A, B), A) = true

suffices [rule1] (Mix (A, B), B) = true

suffices [rule1] (Mix (B, B), A) = false

suffices [rule1] (Mix (B, B), B) = true

suffices [rule1] (Mix (Mix (A, B), B), A) = true

suffices [rule1] (Mix (Mix (B, B), B), A) = false

suffices [rule1] (Mix (Mix (A, B), B), Mix (B, A)) = true

suffices [rule1] (Mix (Mix (B, B), B), Mix (B, A)) = false

suffices rulesA (A, B) = false

suffices rulesA (Mix (A, B), A) = true

suffices rulesA (Mix (Mix (A, B), B), A) = true

suffices rulesA (Mix (Mix (B, B), B), A) = true

suffices rulesA (Mix (Mix (B, B), B), Mix (B, A)) = false

suffices rulesB (A, B) = false

suffices rulesB (Mix (A, B), A) = true

suffices rulesB (Mix (Mix (A, B), B), A) = true

suffices rulesB (Mix (Mix (B, B), B), A) = false

suffices rulesB (Mix (Mix (B, B), B), Mix (B, A)) = true

suffices rulesC (A, B) = true

suffices rulesC (Mix (A, B), A) = true

suffices rulesC (Mix (Mix (A, B), B), A) = true

suffices rulesC (Mix (Mix (B, B), B), A) = true

suffices rulesC (Mix (Mix (B, B), B), Mix (B, A)) = false

Test started

Host0: requests A

Host0: USING lab0 with guests []:

EXPERIMENT: A

Host1: requests Mix (Mix (A, Mix (A, A)), B)

Host1: USING lab1 with guests []:

EXPERIMENT: Mix (Mix (A, Mix (A, A)), B)

Host2: requests Mix (Mix (A, Mix (A, A)), A)

Host4: requests A

Host3: requests Mix (A, A)

Host1: Gave lab1 to 2

Exp1a result: false

Host1: COMPLETED EXPERIMENTS

Exp0a result: false

Host0: COMPLETED EXPERIMENTS

Host2: COMPLETED EXPERIMENTS

Host3: COMPLETED EXPERIMENTS

Host2: COMPLETED EXPERIMENTS

Host4: COMPLETED EXPERIMENTS

ALL HOSTS COMPLETED

Test started

Host2: requests Mix (B, A)

Host1: requests Mix (Mix (A, A), Mix (A, A))

Host7: requests Mix (Mix (A, B), B)

Host0: Gave lab0 to 2

Host4: requests Mix (Mix (A, A), Mix (A, B))

Host3: requests Mix (Mix (A, B), B)

Host6: requests Mix (Mix (A, A), Mix (B, A))

Host0: requests Mix (B, Mix (B, A))

Host5: requests Mix (B, Mix (B, B))

Host2: USING lab0 with guests [7]:

EXPERIMENT: Mix (Mix (A, B), B)

Host1: Gave lab1 to 4

Exp7a result: false

Host2: Gave lab0 to 3

Host3: USING lab0 with guests [0; 5]:

EXPERIMENT: Mix (Mix (A, B), B)
Host7: requests Mix (A,Mix (B,B))

Exp2a result: false

Host1: requests Mix (A,A)

Host4: USING lab1 with guests [6]:

EXPERIMENT: Mix (Mix (A,A),Mix (A,B))

Exp3a result: true

Host3: Gave lab0 to 7

Exp5a result: true

Host7: USING lab0 with guests []:

EXPERIMENT: Mix (A,Mix (B,B))

Host2: requests Mix (Mix (B,B),Mix (B,A))

Host0: requests Mix (B,A)

Exp3a result: true

Host5: requests Mix (B,B)

Host7: Gave lab0 to 1

Exp1b result: false

Host1: USING lab0 with guests [2]:

EXPERIMENT: Mix (Mix (B,B),Mix (B,A))

Host3: requests Mix (A,Mix (A,B))

Exp6a result: false

Exp7b result: true

Host0: USING lab0 with guests []:

EXPERIMENT: Mix (A,Mix (A,B))

Host1: requests Mix (Mix (A,A),Mix (A,A))

Exp0b result: true

Host6: requests Mix (B,A)

Exp0c result: false

Exp6b result: true

Host5: USING lab0 with guests [3; 6]:

EXPERIMENT: Mix (A,Mix (A,B))

Host2: requests Mix (A,Mix (A,B))

Exp1c result: false

Exp7c result: false

Host1: requests Mix (B,Mix (A,A))

Host0: requests Mix (B,B)

Exp2b result: true

Exp6b result: true

Host5: Gave lab0 to 1

Host7: USING lab0 with guests []:

EXPERIMENT: Mix (Mix (A,A),Mix (A,B))

Host1: requests Mix (Mix (A,A),Mix (A,A))

Exp0b result: true

Host6: requests Mix (B,A)

Exp1c result: false

Exp7d result: true

Host3: USING lab0 with guests [2; 6; 7]:

EXPERIMENT: Mix (A,Mix (A,B))

Host4: requests Mix (Mix (A,A),Mix (A,B))

Host0: requests Mix (B,Mix (A,A))

Exp2c result: false

Exp6c result: false

Host3: USING lab0 with guests [2; 6]:

EXPERIMENT: Mix (A,Mix (A,B))

Host4: USING lab1 with guests [5]:

EXPERIMENT: Mix (A,Mix (A,B))

Host0: requests Mix (B,Mix (A,A))

Exp0c result: false

Host3: Gave lab0 to 1

Exp2d result: true
Host1: USING lab0 with guests [0]:
    EXPERIMENT: Mix (B,Mix (A,A))
    Exp3c result: true
    Host2: COMPLETED EXPERIMENTS
    Exp4c result: true
    Exp5c result: true
    Host3: requests Mix (Mix (A,A),A)
    Host4: gave lab1 to 6
    Host4: requests Mix (Mix (A,A),Mix (B,B))
    Host5: requests Mix (B,Mix (B,B))
    Host6: USING lab1 with guests []:
        EXPERIMENT: Mix (Mix (B,B),Mix (B,B))
    Host1: Gave lab0 to 3
    Exp0d result: true
    Host3: USING lab0 with guests [4]:
        EXPERIMENT: Mix (Mix (A,A),Mix (B,B))
    Host0: COMPLETED EXPERIMENTS
    Host8: COMPLETED EXPERIMENTS
    Host9: COMPLETED EXPERIMENTS
    Host5: COMPLETED EXPERIMENTS
    Exp5d result: true
    Host5: COMPLETED EXPERIMENTS
    ALL HOSTS COMPLETED
    0 Test started
    Host5: requests Mix (Mix (A,A),B)
    Host3: requests Mix (A,Mix (B,B))
    Host8: requests Mix (B,Mix (A,B))
    Host7: requests Mix (A,Mix (B,B))
    Host1: requests Mix (A,Mix (A,A))
    Host0: requests Mix (B,Mix (A,B))
    Host6: requests Mix (Mix (B,B),Mix (B,B))
    Host4: requests Mix (A,Mix (A,B))
    Host2: requests Mix (Mix (A,B),Mix (B,A))
    Host2: Gave lab0 to 5
    Host4: requests Mix (B,Mix (A,B))
    Host9: requests Mix (A,B)
    Host11: requests Mix (A,Mix (B,A))
    Host10: requests Mix (Mix (B,B),Mix (A,A))
    Host8: requests Mix (B,A)
    Host13: requests Mix (Mix (B,B),Mix (B,A))
    Host12: requests Mix (A,Mix (A,B))
    Host14: requests Mix (Mix (B,B),B)
    Host15: requests Mix (Mix (A,A),Mix (B,B))
    Host16: requests Mix (Mix (A,A),A)
    Host18: requests Mix (Mix (B,A),Mix (B,B))
    Host17: requests Mix (Mix (A,A),B)
    Host19: requests Mix (A,B)
    Host1: USING lab1 with guests []:
        EXPERIMENT: Mix (A,Mix (A,A))
    Host2: USING lab2 with guests []:
        EXPERIMENT: Mix (B,Mix (A,B))
    Host5: USING lab0 with guests []:
        EXPERIMENT: Mix (Mix (A,A),B)
    Host2: Gave lab2 to 3
    Exp2a result: true
    Host3: USING lab2 with guests []:
        EXPERIMENT: Mix (A,Mix (B,B))
    Host1: Gave lab1 to 7
    Host2: requests Mix (Mix (B,B),A)
    Host2: Gave lab0 to 16
Exp0a result: true

Host1: requests Mix (A,Mix (B,A))

Host3: Gave lab2 to 2

Exp5a result: false

Host2: USING lab2 with guests [5]:

EXPERIMENT: Mix (Mix (B,B),A)

Exp3a result: true

Host5: requests Mix (Mix (B,B),Mix (B,A))

Exp2b result: false

Host3: USING lab0 with guests [10]:

EXPERIMENT: Mix (Mix (A,B),Mix (A,A))

Exp5b result: false

Host5: Gave lab2 to 11

Exp2b result: false

Host2: requests Mix (Mix (B,A),A)

Exp3b result: true

Host3: Gave lab0 to 16

Exp10a result: true

Host5: requests Mix (A,A)

Exp12a result: true

Host1: USING lab0 with guests [2]:

EXPERIMENT: Mix (A,Mix (A,B))

Exp3a result: true

Host16: USING lab0 with guests []:

EXPERIMENT: Mix (Mix (A,A),A)

Exp16a result: true

Host11: USING lab2 with guests []:

EXPERIMENT: Mix (Mix (A,A),A)

Host15: requests Mix (Mix (A,A),A)

Exp1a result: true

Host1: requests Mix (Mix (A,B),B)

Host3: Gave lab2 to 2

Exp5a result: false

Host2: USING lab2 with guests []:

EXPERIMENT: Mix (Mix (B,B),A)

Exp3a result: true

Host5: requests Mix (Mix (B,B),Mix (B,A))

Exp16b result: true

Host2: Gave lab0 to 12

Exp5a result: false

Host16: requests Mix (Mix (A,A),A)

Exp19a result: false

Exp0a result: false

Exp6a result: false

Exp9a result: false

Exp13a result: false

Exp17a result: false

Exp4a result: false

Host7: Gave lab1 to 3

Exp16b result: true

Host12: USING lab0 with guests [1; 5]:

EXPERIMENT: Mix (A,Mix (A,B))

Host15: requests Mix (Mix (A,A),Mix (A,A))

Host19: requests Mix (A,Mix (A,A))

Exp2c result: true

Host3: USING lab1 with guests []:

EXPERIMENT: Mix (Mix (A,A),Mix (A,A))

Exp16b result: true

Host12: USING lab0 with guests [1; 5]:

EXPERIMENT: Mix (A,Mix (A,B))

Host15: requests Mix (Mix (A,A),Mix (A,A))

Host19: requests Mix (A,Mix (A,A))

Host0: requests Mix (B,A)

Exp11a result: false

Exp14a result: false

Exp18a result: false

Exp6a result: false

Exp9a result: false

Exp13a result: false

Exp17a result: false

Exp4a result: false

Host7: Gave lab1 to 3

Exp16b result: true

Host12: USING lab0 with guests [1; 5]:

EXPERIMENT: Mix (A,Mix (A,B))

Host15: requests Mix (Mix (A,A),Mix (A,A))

Host19: requests Mix (A,Mix (A,A))

Host11: requests Mix (A,Mix (A,A))

Host14: requests Mix (Mix (B,A),A)

Host18: requests Mix (Mix (A,A),A)
Host6: requests Mix (A,Mix (A,A))
Host9: requests Mix (B,B)
Exp7a result: false
Host13: requests Mix (B,Mix (A,A))

Host2: Gave lab2 to 10

Host4: requests Mix (A,Mix (B,B),Mix (A,A))
Host8: requests Mix (A,B)
Exp1c result: false
Host16: requests Mix (A,Mix (B,B))

Host12: Gave lab0 to 15

Host3: Gave lab1 to 10
Exp5c result: false
Host1: requests Mix (B,Mix (B,B))
Exp12a result: false

Host7: requests Mix (B,Mix (A,B))

Exp14b result: false
Host19: Gave lab1 to 0

Host15: Using lab0 with guests [11]:
EXPERIMENT: Mix (B,Mix (A,A))

Host10: Using lab2 with guests []:
EXPERIMENT: Mix (B,Mix (A,B))

Host5: requests Mix (B,Mix (B,B))
Host12: requests Mix (Mix (A,A),Mix (B,B))

Host14: requests Mix (A,A)

Exp10b result: false
Exp15b result: false
Exp19b result: false

Host6: Using lab0 with guests [2]:
EXPERIMENT: Mix (A,Mix (A,A))
Host11: requests Mix (B,Mix (B,A))
Exp13b result: true
Exp17b result: true

Exp9b result: true
Exp16c result: true

Host10: Gave lab2 to 18
Host15: Gave lab0 to 6

Host18: Using lab2 with guests []:
EXPERIMENT: Mix (Mix (A,A),Mix (A,A))

Host14: requests Mix (A,A)

Exp10b result: false

Exp4b result: true

Host14: Using lab0 with guests [1; 3; 7; 12]:
EXPERIMENT: Mix (B,Mix (A,B))

Host10: requests Mix (B,B)
Host18: Gave lab2 to 5

Host9: requests Mix (Mix (B,A),Mix (B,A))
Host13: requests Mix (B,B)

Exp9b result: true
Host5: Using lab2 with guests []:
EXPERIMENT: Mix (B,Mix (B,B))
Host6: Gave lab0 to 11

Exp2d result: true

Host7: requests Mix (B,Mix (A,B))

Host17: requests Mix (Mix (A,A),Mix (A,B))

Host8: requests Mix (Mix (A,A),A)
Host16: requests Mix (A,Mix (B,B))
Host1: requests Mix (B,Mix (A,B))
Host7: requests Mix (B,B)
Host3: requests Mix (B,Mix (A,A))
Host11: requests Mix (A,Mix (B,A))
Host10: USING lab0 with guests []:  
EXP: Mix (B,Mix (B,A))

Exp1d result: true
Exp3d result: true
Exp2d result: false
Exp4c result: false
Exp1c result: true
Exp17c result: false
Exp13c result: false
Exp1d result: false
Exp12c result: false
Exp12b result: true

Host11: Gave lab0 to 10
Host14: Gave lab1 to 10
Host11: Gave lab0 to 10
Host15: Gave lab2 to 15
Host15: USING lab2 with guests []:  
EXP: Mix (A,Mix (A,B))

Host1: requests Mix (B,Mix (A,B))
Host7: requests Mix (B,B)
Host3: requests Mix (B,Mix (A,A))
Host11: requests Mix (A,Mix (B,A))
Host10: USING lab0 with guests []:  
EXP: Mix (B,Mix (B,A))

Exp1d result: true
Exp3d result: true
Exp2d result: false
Exp4c result: false
Exp1c result: true
Exp17c result: false
Exp13c result: false
Exp1d result: false
Exp12c result: false
Exp12b result: true

Host11: Gave lab0 to 10
Host14: Gave lab1 to 10
Host11: Gave lab0 to 10
Host15: Gave lab2 to 13
Host19: requests Mix (A,B),Mix (A,B))

Exp3e result: true
Exp7c result: true
Exp3e result: true
Exp2e result: false
Exp8c result: true
Exp11d result: true
Exp13d result: true
Exp14d result: true
Exp14d result: true
Exp14d result: true
Exp14d result: true
EXPERIMENT: Mix (A,Mix (B,B))

Exp0c result: true

Host3: COMPLETED EXPERIMENTS

Host2: COMPLETED EXPERIMENTS

Host7: requests Mix (B,A)

Host8: requests Mix (A,A)

Exp10d result: true

Host14: requests Mix (A,Mix (B,A))

Exp9c result: true

Exp13d result: false

Host17: USING lab0 with guests []:

EXPERIMENT: Mix (Mix (B,B),Mix (B,B))

Exp12c result: true

Exp16d result: true

Host11: requests Mix (Mix (B,B),A)

Host17: requests Mix (Mix (B,A),A)

Exp15d result: true

Exp19d result: true

Host12: requests Mix (A,Mix (A,B))

Host16: requests Mix (Mix (B,B),Mix (B,B))

Host4: Gave lab1 to 11

Host0: requests Mix (Mix (B,B),Mix (B,B))

Host10: requests Mix (A,A)

Host13: requests Mix (Mix (B,B),A)

Host9: requests Mix (Mix (A,B),Mix (A,A))

Host15: requests Mix (Mix (A,A),Mix (B,B))

Host4: requests Mix (A,Mix (A,B))

Host13: Gave lab2 to 7

Host11: USING lab2 with guests []:

EXPERIMENT: Mix (Mix (B,B),A)

Exp11d result: true

Exp14d result: true

Host17: Using lab0 with guests [6]:

EXPERIMENT: Mix (Mix (B,B),A)

Host8: Using lab0 with guests [6]:

EXPERIMENT: Mix (Mix (B,B),A)

Exp17d result: false

Host7: Using lab2 with guests []:

EXPERIMENT: Mix (B,A)

Host7: Using lab2 with guests []:

EXPERIMENT: Mix (B,A)

Host7: Gave lab2 to 14

Exp7d result: false

Exp11e result: false

Host14: Using lab2 with guests []:

EXPERIMENT: Mix (A,Mix (B,B))

Exp6d result: true

Host11: Using lab2 with guests []:

EXPERIMENT: Mix (Mix (B,B),Mix (B,B))

Exp11e result: false

Host14: Gave lab2 to 14

Exp14e result: true

Host16: Using lab0 with guests []:

EXPERIMENT: Mix (Mix (B,B),A)

Host16: Using lab0 with guests [4; 10; 12; 13; 15; 19]:

EXPERIMENT: Mix (Mix (B,B),A)

Host0: Using lab2 with guests []:

EXPERIMENT: Mix (Mix (B,B),Mix (B,B))

Exp14d result: true

Host16: Gave lab0 to 17

Host17: Using lab0 with guests []:

EXPERIMENT: Mix (Mix (B,B),A)
Host8: requests Mix (Mix (B,B),Mix (B,A))

Host14: COMPLETED EXPERIMENTS
Exp16e result: false
Exp15e result: true
Exp19e result: true

Exp4e result: true
Exp12d result: true

Host8: Gave lab2 to 7

Exp10e result: true

Host7: USING lab2 with guests []:

Exp9e result: true

ExPERIMENT: Mix (Mix (A,B),B)

Host13: COMPLETED EXPERIMENTS

Exp8e result: true

Host12: USING lab2 with guests []:

Exp9d result: true

Host9: USING lab1 with guests []:

Exp7e result: false
Host7: Gave lab1 to 9

Exp6e result: false

Host18: USING lab0 with guests []:

Exp18d result: true

Host12: requests Mix (Mix (A,A),Mix (B,B))

Exp13e result: true

Host8: USING lab0 with guests []:

Exp12d result: true

EXPERIMENT: Mix (Mix (B,B),Mix (B,A))

Host13: COMPLETED EXPERIMENTS

Exp7e result: true

Host9: requests Mix (Mix (B,B),A)

Exp12e result: false

Host19: COMPLETED EXPERIMENTS

Exp18d result: true

Host12: requests Mix (Mix (A,A),Mix (B,B))

EXPERIMENT: Mix (Mix (B,B),Mix (B,A))

Host13: COMPLETED EXPERIMENTS

Exp13e result: true

Host9: USING lab1 with guests []:

Exp12e result: false

EXP8e result: true

Host18: USING lab0 with guests []:

EXPERIMENT: Mix (Mix (A,A),Mix (B,B))

Host13: COMPLETED EXPERIMENTS

Exp12d result: true

Host12: USING lab2 with guests []:

EXPERIMENT: Mix (Mix (B,B),Mix (B,B))

Host13: COMPLETED EXPERIMENTS

Exp18e result: true

Host18: COMPLETED EXPERIMENTS

Host8: COMPLETED EXPERIMENTS

Exp12d result: true

Host18: COMPLETED EXPERIMENTS

EXP8e result: true

Host18: COMPLETED EXPERIMENTS