

[ersenm@ssh hw3\_solution]\$ a.out

## INITIAL CASE

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Operators:

Mother is on the left

Father is on the left

Policeman is on the left

Non-operators:

Daughter is on the left

Daughter is on the left

Son is on the left

Son is on the left

Thief is on the left

The raft is on the left carrying noone

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The raft is on the left carrying Mother and Daughter

Father-Daughter Inconsistency

The raft is on the left carrying Mother and Son

Mother-Son Inconsistency

The raft is on the left carrying Mother and Thief

Father-Daughter Inconsistency

The raft is on the left carrying Mother and Father

Mother and Father sailed to the right side successfully

The raft is on the right carrying Mother

Mother-Son Inconsistency

The raft is on the right carrying Father

Father-Daughter Inconsistency

Backtracking is necessary

Mother and Father sailed back to the left side

The raft is on the left carrying Father and Daughter

Mother-Son Inconsistency

The raft is on the left carrying Policeman and Daughter

Thief-Family Inconsistency

The raft is on the left carrying Policeman and Thief

Policeman and Thief sailed to the right side successfully

The raft is on the right carrying Policeman

Policeman sailed to the left side successfully

The raft is on the left carrying Mother and Daughter

Father-Daughter Inconsistency

The raft is on the left carrying Mother and Son

Mother-Son Inconsistency

The raft is on the left carrying Mother and Father

Thief-Family Inconsistency

The raft is on the left carrying Mother and Policeman

Father-Daughter Inconsistency

The raft is on the left carrying Father and Daughter

Mother-Son Inconsistency

The raft is on the left carrying Policeman and Daughter

Policeman and Daughter sailed to the right side successfully

The raft is on the right carrying Policeman

Thief-Family Inconsistency

The raft is on the right carrying Policeman and Thief

Policeman and Thief sailed to the left side successfully

The raft is on the left carrying Mother and Daughter

Mother and Daughter sailed to the right side successfully

The raft is on the right carrying Mother

Mother sailed to the left side successfully

The raft is on the left carrying Mother and Son

Mother-Son Inconsistency

The raft is on the left carrying Mother and Thief

Thief-Family Inconsistency

The raft is on the left carrying Mother and Father

Mother and Father sailed to the right side successfully

The raft is on the right carrying Mother

Mother-Son Inconsistency

The raft is on the right carrying Father

Father sailed to the left side successfully

The raft is on the left carrying Father and Son

Father and Son sailed to the right side successfully

The raft is on the right carrying Mother

Mother-Son Inconsistency

The raft is on the right carrying Father

Mother-Son Inconsistency

Backtracking is necessary

Father and Son sailed back to the left side

The raft is on the left carrying Father and Thief

Thief-Family Inconsistency

The raft is on the left carrying Father and Policeman

Thief-Family Inconsistency

The raft is on the left carrying Policeman and Thief

Policeman and Thief sailed to the right side successfully

The raft is on the right carrying Mother

Mother sailed to the left side successfully

The raft is on the left carrying Mother and Son

Mother-Son Inconsistency

The raft is on the left carrying Mother and Father

Mother and Father sailed to the right side successfully

The raft is on the right carrying Mother

Mother-Son Inconsistency

The raft is on the right carrying Father

Father sailed to the left side successfully

The raft is on the left carrying Father and Son

Father and Son sailed to the right side successfully

The raft is on the right carrying Mother

Mother-Son Inconsistency

The raft is on the right carrying Father

Mother-Son Inconsistency

The raft is on the right carrying Policeman

Thief-Family Inconsistency

The raft is on the right carrying Policeman and Thief

Policeman and Thief sailed to the left side successfully

The raft is on the left carrying Policeman and Son

Policeman and Son sailed to the right side successfully

The raft is on the right carrying Mother

Father-Daughter Inconsistency

The raft is on the right carrying Father

Mother-Son Inconsistency

The raft is on the right carrying Policeman

Policeman sailed to the left side successfully

The raft is on the left carrying Policeman and Thief

Policeman and Thief sailed to the right side successfully

All the people passed the river successfully

IN THE END

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Operators:

Mother is on the right

Father is on the right

Policeman is on the right

Non-operators:

Daughter is on the right

Daughter is on the right

Son is on the right

Son is on the right

Thief is on the right

The raft is on the right carrying noone

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