**Task 2**

**River Problem**

**River\_facts.txt**

(A1 Adult)

(A2 Adult)

(C1 Child)

(C2 Child)

(B1 Boat)

(preconds

(left A1)

(left A2)

(left C1)

(left C2)

(left B1)

)

(effects

(right A1) (right A2) (right C1) (right C2) (right B1)

)

**River\_ops.txt**

(operator

moveAdultRight

(params

(<a> Adult) (<b> Boat))

(preconds

(left <a>) (left <b>))

(effects

(right <a>) (right <b>)(del left <a>) (del left <b>))

)

(operator

moveAdultLeft

(params

(<a> Adult) (<b> Boat))

(preconds

(right <a>) (right <b>))

(effects

(left <a>)(left <b>)(del right <a>) (del right <b>))

)

(operator

moveOneChildRight

(params

(<a> Child) (<b> Boat))

(preconds

(left <a>) (left <b>))

(effects

(right <a>) (right <b>)(del left <a>) (del left <b>)))

)

(operator

moveOneChildLeft

(params

(<a> Child) (<b> Boat))

(preconds

(right <a>) (right <b>))

(effects

(left <a>)(left <b>)(del right <a>) (del right <b>))

)

(operator

moveBothChildRight

(params

(<a> Child)(<c> Child)(<b> Boat))

(preconds

(left <a>)(left <c>)(left <b>))

(effects

(right <a>)(right <c>)(right <b>)(del left <a>)(del left <c>)(del left <b>))

)

(operator

moveBothChildLeft

(params

(<a> Child)(<c> Child)(<b> Boat))

(preconds

(right <a>)(right <c>)(right <b>))

(effects

(left <a>)(left <c>)(left <b>)(del right <a>)(del right <c>)(del right <b>))

)

Output

