

## *test plan for Iteration 1*

*4 players as A B C D*

*A is strategy 2, B is strategy 1, C is strategy 3, D is a test player who only draws tile each turn*

*So, the steps for D is ignored in this scenario.*

*BLUE = B, RED = R, GREEN = G, ORANGE = O*

*Game started, four players draw one card each to determine who play first.*

*A got B12, B got G7, C got B1, D got G1, so A can start to play melds firstly.*

*A got: {R8 R9 R10} O1 O3 O5 O9 O12 R5 R13 B7 B10 G4 G7*

*B got: {G11 G12 G13} {R9 B9 G9} R12 O7 O8 O10 O2 G2 G3 G5*

*C got: {G5 G6 G7} {B1 B2 B3} {R2 O2 B2} {B9 B10 B11} G10 G10*

*D got random tiles, not mention here*

*A don't have any sets or run bigger than 30, A can't play melds.*

*A draw cards from stock. A got R11.*

*A end turn.*

*B start his first turn to play melds, B play {G11 G12 G13} which is over 30*

*B end turn.*

*C start his first turn to play melds, C play {B9 B10 B11} which is over 30*

*C end turn*

*Another player has already played tile on table so A can start to play tile*

*A play {R8 R9 R10 R11} as a run.*

*A end turn.*

*B play {R9 B9 G9} as a set*

*B play R12 to run {R8 R9 R10 R11} and the run is now {R8 R9 R10 R11 R12}*

*B end turn*

*No one has 3 fewer tiles than C, C only play tiles using on table*

*C play G10 into run {G11 G12 G13} and new run is {G10 G11 G12 G13}*

*C end turn*

*A play R13 to run {R8 R9 R10 R11 R12} and run is now {R8 R9 R10 R11 R12 R13}*

*A play O9 to set {R9 B9 G9} and set is now {R9 B9 G9 O9}*

*A end turn*

*B play O7 O8 and move O9 from set {R9 B9 G9 O9} and play O10 as new set {O7 O8 O9 O10}*

*set {R9 B9 G9 O9} become {R9 B9 G9}*

*B end turn*

*No one has 3 fewer tiles than C, C only play tiles using on table and C can't play any tiles*

*C draw from stock, C draws joker*

*C end turn*

*A play G7 B7 and move O7 from set {O7 O8 O9 O10} as a new set {G7 B7 O7}*

*Set {O7 O8 O9 O10} become {O8 O9 O10}*

*A end turn*

*B has no tile to play, B draw tile from stock, B draw O11*

*B end turn*

*A has 3 fewer tiles than C, C play all melds he can*

*C play {G5 G6 G7} {B1 B2 B3} {R2 O2 B2}*

*C end turn*

*A has no tile to play, A draw tile from stock, A draw "O4"*

*A end turn*

*B has no tile to play, B draw tile from stock, B draw R8*

*B end turn*

*C play joker to set {G7 B7 O7} and the new turn is {G7 B7 O7 joker}*

*C end turn*

*A move out joker from set {G7 B7 O7 joker} and new set is {G7 B7 O7}*

*A play O1 O3 and move in joker as a run {O1 joker O3}*

*A end turn*

*B play move out joker from run {O1 joker O3} and play O2 in it, the run is now {O1 O2 O3}*

*B play G2 G3 G5 and joker, make a run of {G2 G3 joker G5}*

*B end turn*

*C has no tile to play, C draw tile from stock, C draw G9*

*C end turn*

*A play G4 and move out joker from run {G2 G3 joker G5} and the new run is {G2 G3 G4 G5}*

*A play joker to run {O8 O9 O10 joker}*

*A play O12 to {O8 O9 O10 joker} and the new run is {O8 O9 O10 joker O12}*

*A move out G5 from run {G2 G3 G4 G5} and new run is {G2 G3 G4}*

*A play O5 R5, and combine with G5 as new set {O5 R5 G5}*

*A end turn*

*B has no tile to play, B draw from stock, B draw B7*

*B end turn*

*C play G9 into run {G10 G11 G12 G13} and new run is {G9 G10 G11 G12 G13}*

*C end turn*

*A has no tile to play, A draw B8*

*A end turn*

*B replace O11 instead of joker in run {O8 O9 O10 joker O12} and the new run is {O8 O9 O10 O11 O12}*

*B move out O8 from run {O8 O9 O10 O11 O12} and new run is {O9 O10 O11 O12}*

*B play R8 and combine joker as new set {R8 joker O8}*

*B end turn*

*C has no tile to play, C draw tile form stock, C draw B1*

*C end turn*

*A move out O9 in run { O9 O10 O11 O12} and new run is {O10 O11 O12},*

*then move in O9 into set {R9 B9 G9} and new set is { R9 B9 G9 O9}*

*A move out B9 from set { R9 B9 G9 O9} and new set is { R9 G9 O9}*

*A play B8 B10 and move in B9 as new run {B8 B9 B10}*

*A play O4 into run {O1 O2 O3} and new run is {O1 O2 O3 O4}*

*A end turn*

*A has no tiles left, A wins*