```
                         (((((((..((.(......)..))))(.(((((((.....)))))))..))))))....
chr-03.trna26-Lys-TTT    GGUCCCG--UAGCUCAGUUGGUUAGAGCGUUCGUCUUUUGAGCCGAAGGUCGCGGGUUC- 57
chr-12.trna46-Lys-TTT    AGCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-03.trna61-Lys-TTT    AUCAUCU--UAGCUUAG-UGG-UAAAGUGCGUGGCUUUUAACCACGUGGUCAUGGGUUC- 55
chr-08.trna134-Lys-TTT   GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUU- 55
chr-14.trna16-Lys-TTT    GCCUUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUU- 55
chr-01.trna61-Lys-TTT    GCCGUCC--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-03.trna173-Lys-TTT   GCCGUCC--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-04.trna165-Lys-TTT   GCCGUCC--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-11.trna2-Lys-TTT     GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-12.trna48-Lys-TTT    GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-08.trna133-Lys-TTT   GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-12.trna49-Lys-TTT    GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-12.trna50-Lys-TTT    GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-12.trna53-Lys-TTT    GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-12.trna55-Lys-TTT    GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-14.trna15-Lys-TTT    GCCUUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-15.trna110-Lys-TTT   GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-07.trna92-Lys-TTT    GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-02.trna221-Lys-TTT   GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-10.trna19-Lys-TTT    GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-03.trna62-Lys-TTT    GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-07.trna59-Lys-TTT    GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-03.trna196-Lys-TTT   GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-07.trna50-Lys-TTT    GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-09.trna1-Lys-TTT     GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-04.trna199-Lys-TTT   GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-06.trna17-Lys-TTT    GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-06.trna44-Lys-TTT    GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-06.trna19-Lys-TTT    GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-12.trna51-Lys-TTT    GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-01.trna148-Lys-TTT   GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-02.trna84-Lys-TTT    GCCGUCC--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-02.trna242-Lys-TTT   AUCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-12.trna47-Lys-TTT    GUCAUCU--UAGCUCAG-UGG-UAGAGUGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-08.trna29-Lys-TTT    GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-02.trna86-Lys-TTT    GCCGUCC--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-12.trna54-Lys-TTT    GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAAGCACGUGGUCGUGGGUUC- 55
chr-06.trna222-Lys-TTT   GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGAUUC- 55
chr-07.trna52-Lys-TTT    GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-02.trna87-Lys-TTT    GCCAUCC--UAGUUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-03.trna60-Lys-TTT    GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUUGGUUC- 55
chr-15.trna104-Lys-TTT   GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGUGUUC- 55
chr-12.trna94-Lys-TTT    GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGAGUUC- 55
chr-08.trna132-Lys-TTT   GCCAUCU--UAGCUCUG-UGG-UAGAGCGCAUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-08.trna84-Lys-TTT    GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGCCGUGGGUUC- 55
chr-09.trna2-Lys-TTT     GCCAUCU--UAGCUCAG-UGG-UAAAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-12.trna52-Lys-TTT    GCCAUCU---AGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 54
chr-12.trna43-Lys-TTT    GCCAUCU--UAGCUCAG-UGG-UAGAAUGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 55
chr-05.trna95-Lys-TTT    GCCGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACAUGGUCGUGGGUUC- 55
chr-07.trna41-Lys-TTT    GGGUGUA--UAGCUCAGUUGG-UAGAGCAUUGGCUUUUAACCUAAUGGUCGCAGGUUC- 56
chr-07.trna65-Lys-TTT    GCCGUCU--UAGCUCAGCCGG-UAGAGCGCACGGCUUUUAACCGUGUGGUCGUGGGUUC- 56
chr-07.trna66-Lys-TTT    GCCGUCU--UAGCUCAGCCGG-UAGAGCGCACGGCUUUUAACCGUGUGGUCGUGGGUUC- 56
chr-07.trna60-Lys-TTT    GCUGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUUGUGAGUUC- 55
chr-08.trna31-Lys-TTT    ACCAUCU--UAGCUUAG-UGC-UAGAGCACGUGGCUUUUAACCACGUGGUGGAGGGUUU- 55
chr-07.trna93-Lys-TTT    GAUGUCUAUUAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUC- 57
chr-12.trna79-Lys-TTT    GCCCGUC--UAGCUCAGUUGG-UAGAGCGCAAGGUUUUUAACCUUGUAGUCCUGGGUUC- 56
chr-08.trna30-Lys-TTT    GCCAUCU--UAGCUUAG-UGG-UAGAGUGCGUGGCUUUUAACGAUGUGGUCGUGGGUUC- 55
chr-02.trna85-Lys-TTT    GCUGUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUGGUCGUGGGUUCG 56
chr-09.trna3-Lys-TTT     GGCAUUU--UAGCUUAG-UGG-UAGAGCAUGUGGCUUUUAACCACGUGGUCGUGGUUUU- 55
chr-03.trna63-Lys-TTT    GCCAUCU--UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACCACGUAGUCGUGGUUC-- 54
chr-01.trna95-Lys-TTT    UCCUAUU--UAGCUCAGUUGG-AAGAGUGCAAGGCUUUUGACCUUGUGGCCCUGGGUUU- 56
chr-01.trna97-Lys-TTT    UCCUAUU--UAGCUCAGUUGG-AAGAGUGCAAGGCUUUUGACCUUGUGGCCCUGGGUUU- 56
chr-01.trna99-Lys-TTT    UCCUAUU--UAGCUCAGUUGG-AAGAGUGCAAGGCUUUUGACCUUGUGGCCCUGGGUUU- 56
chr-01.trna113-Lys-TTT   UCCUAUU--UAGCUCAGUUGG-AAGAGUGCAAGGCUUUUGACCUUGUGGCCCUGGGUUU- 56
chr-01.trna125-Lys-TTT   UCCUAUU--UAGCUCAGUUGG-AAGAGUGCAAGGCUUUUGACCUUGUGGCCCUGGGUUU- 56
chr-10.trna57-Lys-TTT    UCCUAUU--UAGCUCAGUUGG-ACGAGUGCAAGGCUUUUGACCUUGUGGCCCUGGGUUU- 56
chr-01.trna123-Lys-TTT   UCCUAUU--UAGCUCAGUUGG-AAGAGUGCAAGGCUUUUGACCUUGUGGCCCUAGGUUU- 56
chr-01.trna118-Lys-TTT   UCCUAUU--UAGCUCAGUUGG-AAGAGUGCAAGGCUUUUGACCUUGUGGCCCUGGGUUU- 56
chr-01.trna121-Lys-TTT   UCCUAUU--UAGCUCAGUUGG-AAGAGUGCAAGGCUUUUGACCUUGUGGCCUUGGGUUU- 56
chr-01.trna127-Lys-TTT   UCCUGUU--UAGCUUAGUUGG-A-GAGCGCAAGGCUUUUAACCUUGUGACCUUGGGUUU- 55
chr-01.trna128-Lys-TTT   UCAUGUU--UAGCUUAGUUGG-A-GAGCGCAAGGCUUUUAACCUUGUGACCCUGGGUUU- 55
chr-06.trna226-Lys-TTT   ---------UAGCUCAG-UGG-UAGAGCGCGUGGCUUUUAACUACGUGGUCGUGAGUUCA 49
                         .........10........20........30........40........50.........
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                         .........)))))....)))))))...
chr-03.trna26-Lys-TTT    ---GA-GCCCCGC----CGGGACCA-- 74
chr-12.trna46-Lys-TTT    ---GAUUCCCCAC----AGAUGGCG-- 73
chr-03.trna61-Lys-TTT    ---AA-UCCCCAU----AGAUGGCA-- 72
chr-08.trna134-Lys-TTT   ---GA-UCCCCAC----AGAUGGCG-- 72
chr-14.trna16-Lys-TTT    ---GA-UCCCCAC----AGAAGGCG-- 72
chr-01.trna61-Lys-TTT    ---GA-UCCCCAC----GGACGGCG-- 72
chr-03.trna173-Lys-TTT   ---GA-UCCCCAC----GGACGGCG-- 72
chr-04.trna165-Lys-TTT   ---GA-UCCCCAC----GGACGGCG-- 72
chr-11.trna2-Lys-TTT     ---GA-UCCCCAC----AGACGGCG-- 72
chr-12.trna48-Lys-TTT    ---GA-UCCCCAC----AGAUGGCG-- 72
chr-08.trna133-Lys-TTT   ---GA-UCCCCAC----AGAUGGCG-- 72
chr-12.trna49-Lys-TTT    ---GA-UCCCCAC----AGAUGGCG-- 72
chr-12.trna50-Lys-TTT    ---GA-UCCCCAC----AGAUGGCG-- 72
chr-12.trna53-Lys-TTT    ---GA-UCCCCAC----AGAUGGCG-- 72
chr-12.trna55-Lys-TTT    ---GA-UCCCCAC----AGACGGCG-- 72
chr-14.trna15-Lys-TTT    ---GA-UCCCCAC----AGAAGGCG-- 72
chr-15.trna110-Lys-TTT   ---GA-UCCCCAC----AGACGGCG-- 72
chr-07.trna92-Lys-TTT    ---GA-UCCCCAC----AGACGGCG-- 72
chr-02.trna221-Lys-TTT   ---GA-UCCCCAC----AGAUGGCG-- 72
chr-10.trna19-Lys-TTT    ---GA-UCCCCAC----AGACGGCG-- 72
chr-03.trna62-Lys-TTT    ---GA-UCCCCAC----AGAUGGCG-- 72
chr-07.trna59-Lys-TTT    ---GA-UCCCCAC----AGACGGCG-- 72
chr-03.trna196-Lys-TTT   ---GA-UCCCCAC----AGACGGCG-- 72
chr-07.trna50-Lys-TTT    ---GA-UCCCCAC----AGACGGCG-- 72
chr-09.trna1-Lys-TTT     ---GA-UCCCCAC----AGAUGGCG-- 72
chr-04.trna199-Lys-TTT   ---GA-UCCCCAC----AGACGGCG-- 72
chr-06.trna17-Lys-TTT    ---GA-UCCCCAC----AGACGGCG-- 72
chr-06.trna44-Lys-TTT    ---GA-UCCCCAC----AGACGGCG-- 72
chr-06.trna19-Lys-TTT    ---GA-UCCCCAC----AGACGGCG-- 72
chr-12.trna51-Lys-TTT    ---GA-UCCCCAC----AGAUGGUG-- 72
chr-01.trna148-Lys-TTT   ---GA-UCCCCAU----AGAUGGCG-- 72
chr-02.trna84-Lys-TTT    ---GA-UCCUCAC----GGACGGCG-- 72
chr-02.trna242-Lys-TTT   ---GA-UCCCUAC----AGAUGGUG-- 72
chr-12.trna47-Lys-TTT    ---AA-UCCCCAC----AGAUGGCG-- 72
chr-08.trna29-Lys-TTT    ---GA-UACCCAC----AGAUGGUG-- 72
chr-02.trna86-Lys-TTT    ---GA-UCCCCAC----GGACAGCG-- 72
chr-12.trna54-Lys-TTT    ---GA-UCCCCAC----AGAUGGCG-- 72
chr-06.trna222-Lys-TTT   ---GA-UCCCCAC----AGACGGCG-- 72
chr-07.trna52-Lys-TTT    ---AA-UCCCCAC----AGAUGGCA-- 72
chr-02.trna87-Lys-TTT    ---GA-UCCCCAC----GGACGGCG-- 72
chr-03.trna60-Lys-TTT    ---GA-UCCCCAC----AGAUGGCG-- 72
chr-15.trna104-Lys-TTT   ---GA-UCCCCAC----AGACGGCG-- 72
chr-12.trna94-Lys-TTT    ---GA-UACCCAC----AGACGGUG-- 72
chr-08.trna132-Lys-TTT   ---GA-CCCCCAC----AGAUGGCG-- 72
chr-08.trna84-Lys-TTT    ---GA-UCCCCAC----AGACGGCG-- 72
chr-09.trna2-Lys-TTT     ---GA-UCCACAC----AGAUGGCG-- 72
chr-12.trna52-Lys-TTT    ---GA-UCCCCAC----AGAUGGCG-- 71
chr-12.trna43-Lys-TTT    ---GA-UCCCCAA----AGAUGGCG-- 72
chr-05.trna95-Lys-TTT    ---AA-UCCCCAU----AGACAGUG-- 72
chr-07.trna41-Lys-TTT    ---AA-GUCCUGC----UAUACCCA-- 73
chr-07.trna65-Lys-TTT    ---GA-UUCCCAC----AGACGGCG-- 73
chr-07.trna66-Lys-TTT    ---GA-UUCCCAC----AGACGGCG-- 73
chr-07.trna60-Lys-TTT    ---GA-ACCCCAC----AGACGGCA-- 72
chr-08.trna31-Lys-TTT    ---AA-UACUCAC----AGAUGGUG-- 72
chr-07.trna93-Lys-TTT    ---GA-UCCCCAC----AGACGGCG-- 74
chr-12.trna79-Lys-TTT    ---AA-ACCCCAA----GGUGGGCG-- 73
chr-08.trna30-Lys-TTT    ---AA-UACCCACAGAUAGAUGGUA-- 76
chr-02.trna85-Lys-TTT    AUAGAUUCGAUCCCCACAGACGGCG-- 81
chr-09.trna3-Lys-TTT     ---GA-UUUCAACA---AAUUGCUG-- 73
chr-03.trna63-Lys-TTT    ---GA-UCCCCACAGA-UGGGGACU-- 74
chr-01.trna95-Lys-TTT    ---AAUCGUCCAA----AAUGGGCG-- 74
chr-01.trna97-Lys-TTT    ---AAUCGUCCAA----AAUGGGCG-- 74
chr-01.trna99-Lys-TTT    ---AAUCGUCCAA----AAUGGGCG-- 74
chr-01.trna113-Lys-TTT   ---AAUCGUCCAA----AAUGGGCG-- 74
chr-01.trna125-Lys-TTT   ---AAUCGUCCAA----AAUGGGCG-- 74
chr-10.trna57-Lys-TTT    ---AAUCGUCCAA----AAUGGGCG-- 74
chr-01.trna123-Lys-TTT   ---AAUCGUCCAA----AAUGGGCG-- 74
chr-01.trna118-Lys-TTT   ---AAUCGUCCAA----AAUGGACGAA 76
chr-01.trna121-Lys-TTT   ---AAUCGUCCAA----AAUGGGCCAA 76
chr-01.trna127-Lys-TTT   ---GAGCGUCCAA----AAUGGGCG-- 73
chr-01.trna128-Lys-TTT   ---GAGCGGCCAA----AAUGGGUGAA 75
chr-06.trna226-Lys-TTT   CGAUAUAAAAUCC----AUCAAAAAAA 72
                         .........70........80......
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