```
                                                  (((((((..(((.(.....)).)))((((((.....)))))))(.....)).. 
chr-1.trna47-Leu-AAG     GUUGAGAUGGCCGAGUUGAUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-1.trna20-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-1.trna60-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-2.trna6-Leu-AAG      GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-8.trna6-Leu-AAG      GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-10.trna11-Leu-AAG    GACGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-6.trna24-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-2.trna12-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-1.trna1-Leu-AAG      GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-8.trna27-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-3.trna70-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-3.trna71-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-4.trna4-Leu-AAG      GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-8.trna24-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-1.trna41-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-7.trna30-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-1.trna82-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-6.trna11-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-6.trna10-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-2.trna40-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-4.trna43-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-3.trna18-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-5.trna42-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-1.trna49-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-1.trna67-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-2.trna44-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-4.trna47-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-5.trna12-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-5.trna2-Leu-TAG      GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-1.trna21-Leu-CAG     GUUAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-2.trna29-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCUAACGAGGGC 59
chr-3.trna3-Leu-CAA      GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCUAACGAGGGC 59
chr-3.trna38-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCUAACGAGGGC 59
chr-12.trna3-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCUAACGAGGGC 59
chr-6.trna25-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCUAACGAGGGC 59
chr-11.trna4-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCUAACGAGGGC 59
chr-10.trna23-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGCCCUCUAACGAGGGC 59
chr-7.trna11-Leu-CAA     GUCAGGAUGGCCGAG-UGAUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCUAACGAGGGC 59
chr-1.trna50-Leu-TAA     GCUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACUGAAGUGCGC 58
chr-12.trna44-Leu-TAA    GCUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACUGAAGUGCGC 58
chr-4.trna41-Leu-TAA     GCUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACUGAAGUGCGC 58
chr-11.trna21-Leu-TAA    GCUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUGAGUGCGC 58
chr-5.trna50-Leu-TAG     GCCGCUAUAGUGAAAUUGGU-AGACACGCUACUCUUAGGAAACAGUGC----UCAAGCAU 55
chr-4.trna45-Leu-CAA     GCGUUGAUGGUGAAA-UGGU-UGAUACGUGGGACUCAAAAUCUCAUGC--UAAACAGCGU 56
                         .........10........20........30........40........50.........

                         (((((.......)))))..)))))))....
chr-1.trna47-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAAC---A 81
chr-1.trna20-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAAC---A 81
chr-1.trna60-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAAC---A 81
chr-2.trna6-Leu-AAG      GUGGGUUCAAAUCCCAC-UCUCAAC---A 81
chr-8.trna6-Leu-AAG      GUGGGUUCAAAUCCCAC-UCUCAAC---A 81
chr-10.trna11-Leu-AAG    GUGGGUUCAAAUCCCAC-UCUCGUC---A 81
chr-6.trna24-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAAC---A 81
chr-2.trna12-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAAC---A 81
chr-1.trna1-Leu-AAG      GUGGGUUCAAAUCCCAC-UCUCAAC---A 81
chr-8.trna27-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAAC---A 81
chr-3.trna70-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAAC---A 81
chr-3.trna71-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAAC---A 81
chr-4.trna4-Leu-AAG      GUGGGUUCAAAUCCCAC-UCUCAAC---A 81
chr-8.trna24-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAAC---A 81
chr-1.trna41-Leu-CAG     AUGGGUUCGAAUCCCAU-UCUUGAC---A 81
chr-7.trna30-Leu-CAG     AUGGGUUCGAAUCCCAU-UCUUGAC---A 81
chr-1.trna82-Leu-CAG     AUGGGUUCGAAUCCCAU-UCUUGAC---A 81
chr-6.trna11-Leu-CAG     AUGGGUUCGAAUCCCAU-UCUUGAC---A 81
chr-6.trna10-Leu-CAG     AUGGGUUCGAAUCCCAU-UCUUGAC---A 81
chr-2.trna40-Leu-CAG     AUGGGUUCGAAUCCCAU-UCUUGAC---A 81
chr-4.trna43-Leu-CAG     AUGGGUUCGAAUCCCAU-UCUUGAC---A 81
chr-3.trna18-Leu-CAG     AUGGGUUCGAAUCCCAU-UCUUGAC---A 81
chr-5.trna42-Leu-CAG     AUGGGUUCGAAUCCCAU-UCUUGAC---A 81
chr-1.trna49-Leu-TAG     GUGGGUUCAAAUCCCAC-AGCUGUC---A 80
chr-1.trna67-Leu-TAG     GUGGGUUCAAAUCCCAC-AGCUGUC---A 80
chr-2.trna44-Leu-TAG     GUGGGUUCAAAUCCCAC-AGCUGUC---A 80
chr-4.trna47-Leu-TAG     GUGGGUUCAAAUCCCAC-AGCUGUC---A 80
chr-5.trna12-Leu-TAG     GUGGGUUCAAAUCCCAC-AGCUGUC---A 80
chr-5.trna2-Leu-TAG      GUGGGUUCAAAUCCCAC-AGCUGUC---A 80
chr-1.trna21-Leu-CAG     AUGGGUUAGAAUCCCAU-UCUAGACAACA 84
chr-2.trna29-Leu-CAA     GUGGGUUCAAAUCCCAC-UUCUGAC---A 84
chr-3.trna3-Leu-CAA      GUGGGUUCAAAUCCCAC-UUCUGAC---A 84
chr-3.trna38-Leu-CAA     GUGGGUUCAAAUCCCAC-UUCUGAC---A 84
chr-12.trna3-Leu-CAA     GUGGGUUCAAAUCCCAC-UUCUGAC---A 84
chr-6.trna25-Leu-CAA     GUGGGUUCAAAUCCCAC-UUCUGAC---A 84
chr-11.trna4-Leu-CAA     GUGGGUUCAAAUCCCAC-UUCUGAC---A 84
chr-10.trna23-Leu-CAA    GUGGGUUCAAAUCCCAC-UUCUGAC---A 84
chr-7.trna11-Leu-CAA     GUGGGUUCAAAUCCCAC-UUCUGAC---A 84
chr-1.trna50-Leu-TAA     GUGGGUUCGAACCCCAC-AGCCAGC---A 83
chr-12.trna44-Leu-TAA    GUGGGUUCGAACCCCAC-AGCCAGC---A 83
chr-4.trna41-Leu-TAA     GUGGGUUCGAACCCCAC-AGCCAGC---A 83
chr-11.trna21-Leu-TAA    GUGGGUUCGAACCCCAC-AGCCAGC---A 83
chr-5.trna50-Leu-TAG     CUCGGUUCGAAUCCGAG-UGGUGGC---G 80
chr-4.trna45-Leu-CAA     GGAGGUUCGAAUCCUCUUUUAAGGU---A 82
                         .........70........80........

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