```
                                                  (((((((..(((.((.....)).)..)))(((((((....).)))))))(((....)))))..
chr-12.trna229-Leu-CAA    CUCAAUAGGUCCAAG-UGGU-UAAGGAGAUAGAUUCAAAAUCUAUUGGGC-UUUGCCUGC 57
chr-13.trna65-Leu-CAA     GCCUUGGUGGUGAAA-UGGU-AGACACGCGAGACUCAAAAUCUCGUGCU--AAAAAGCGU 56
chr-9.trna83-Leu-CAA      GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-10.trna150-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-12.trna200-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-4.trna150-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUGAGAAGGC 59
chr-9.trna283-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUGAGAAGGC 59
chr-10.trna161-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUGAGAAGGC 59
chr-11.trna100-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUGAGAAGGC 59
chr-8.trna144-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUUCUCGUGAGAGAGC 59
chr-15.trna30-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUGAGAGGGC 59
chr-10.trna151-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUUCUUCGUGAGAGGGC 59
chr-12.trna107-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUUCUUCGUGAGAGAGC 59
chr-12.trna263-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUGAGAGGGC 59
chr-10.trna14-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-10.trna16-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-4.trna97-Leu-CAA      GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUGAGAAGGC 59
chr-12.trna203-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUUGUGAGAAGGC 59
chr-10.trna311-Leu-CAA    GUUAGGAUGGCCGAG-UGGUCUAAGGCGCCAAACUCAAGUUUUGGUCCUUGUGAGAGGGC 59
chr-10.trna15-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUCAGAGGGC 59
chr-1.trna292-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUAAGAGGGC 59
chr-12.trna74-Leu-CAA     GUUAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUAAGAGGGC 59
chr-8.trna78-Leu-CAA      GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUUGUAAAAGGGC 59
chr-10.trna274-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGUGCCAGACUCAAGUUUUGGUCCUUGUGAGAGGGC 59
chr-11.trna117-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGUCAGACUCAAGUUUUGAUCUUCGAAAGAAGGC 59
chr-9.trna254-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGUGCUAGACUCAAGUUCUGGUCUUCGUGAGAAGGU 59
chr-16.trna92-Leu-CAA     GUUAGGAUGGCUGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGCCUUCGUGAGAAGGC 59
chr-11.trna394-Leu-CAA    GUCAGGAUGGCUGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUUGUGAGAAGGC 59
chr-10.trna13-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUAGUCCUCGUGAGAGGGC 59
chr-2.trna5-Leu-CAA       GUCAAGAUGGUCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUUGUGAGAAGGC 59
chr-10.trna275-Leu-CAA    GUUAGGAUGGCUGAG-UGGUUUAAGAUGCUGGACUCAAGUUCUAGUCCUCGUGAGAGGGU 59
chr-14.trna1-Leu-CAA      UUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUUGUAAAAGGGC 59
chr-1.trna23-Leu-CAA      GUCAGGAUGGCUGAG-UGGUCUAAGGCGCUAGGCUCAAGUUCUAGUCCUUGUAAAAGGGC 59
chr-15.trna32-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGUGCUAGACUCAAGUUUUGGUCUUCGUGAGAAGGC 59
chr-7.trna209-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUUGUGAGAGGGC 59
chr-15.trna20-Leu-CAA     GUCAUUAUGGUCGAG-UGGUCUAAGGUGCCAAACUCAAGCUUUGGUCUUCGUUAGAGGGC 59
chr-12.trna202-Leu-CAA    GUCAGGAUGGCUGAG-UGGUCUAAAGCGCCAGACUCAAGUUUUGGUCUUCGAGAAAGGGC 59
chr-10.trna17-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCGAAGGUGCCAGACUCAAGUUCUGGUUCUUGUUAGAGGGC 59
chr-6.trna98-Leu-CAA      GUCAAGAUGGCCGAGUUGGUCUAAGGGACUAGUUUCAAGUAUUGGUCC----AAAAGGGC 56
chr-2.trna22-Leu-CAA      GUCAGGAUGGCUGAG-UGGUCUAAGGUGCCAGACUCAA------CUUCUUGUGAAAGGGC 53
chr-15.trna48-Leu-CAA     GUCAGGAUGGUCGAG-UGGUCAAAGUUGCCAAACUCAAGUUUUGGUCCUCAUUUGAGGGC 59
chr-14.trna7-Leu-CAA      GUUAGGAUGGCUAAG-UGAUCUAAGGCGCCAGACUCAAGUUCUGGUUCUC-------GGC 52
chr-12.trna5-Leu-CAA      GGGGUGGUGGCGCAGUUGG-CUAGCGCGUAGGUCUCAAAAUCUUG----------AGGUC 49
chr-1.trna224-Leu-CAA     GGGGUGGUUGCGCAGUUGG-CUAGCGCGUAAGUCUCAAAAUCCUG----------AGGUC 49
                          .........10........20........30........40........50.........

                          (((((.......)))).).)))))))).
chr-12.trna229-Leu-CAA    GCAGGUUUGAAUCCUC--CUGUUGACG 82
chr-13.trna65-Leu-CAA     GGAGGUUCGAGUCCUC--UUCAAGGCA 81
chr-9.trna83-Leu-CAA      GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-10.trna150-Leu-CAA    GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-12.trna200-Leu-CAA    GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-4.trna150-Leu-CAA     GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-9.trna283-Leu-CAA     GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-10.trna161-Leu-CAA    GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-11.trna100-Leu-CAA    GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-8.trna144-Leu-CAA     GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-15.trna30-Leu-CAA     GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-10.trna151-Leu-CAA    GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-12.trna107-Leu-CAA    GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-12.trna263-Leu-CAA    GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-10.trna14-Leu-CAA     GUGGGUUCAAAUCCCA-C-UUUUGACA 84
chr-10.trna16-Leu-CAA     GUGGGUUCAAAUCCCA-C-UUCUGGCA 84
chr-4.trna97-Leu-CAA      GUGGGUUCAAACCCCA-C-UUCUGACA 84
chr-12.trna203-Leu-CAA    GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-10.trna311-Leu-CAA    GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-10.trna15-Leu-CAA     GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-1.trna292-Leu-CAA     GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-12.trna74-Leu-CAA     GUGGGUUCAAAUCCCA-C-UUCUAACA 84
chr-8.trna78-Leu-CAA      GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-10.trna274-Leu-CAA    GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-11.trna117-Leu-CAA    GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-9.trna254-Leu-CAA     GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-16.trna92-Leu-CAA     GUGGGUUUAAAUCCCA-C-UUUUGACA 84
chr-11.trna394-Leu-CAA    GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-10.trna13-Leu-CAA     GUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-2.trna5-Leu-CAA       GUGGGUUUAAAUCCCA-C-UUUUGACA 84
chr-10.trna275-Leu-CAA    GUGGGUUCAAAUCCCA-C-UUCUGAUA 84
chr-14.trna1-Leu-CAA      GUGGGUUCAAAUCCCA-CCUUCUGACA 85
chr-1.trna23-Leu-CAA      AUGGGUUCAAAUCCCA-C-UUCUGACA 84
chr-15.trna32-Leu-CAA     GUGGGUUCAAAUCCCA-C-UUCUGAUA 84
chr-7.trna209-Leu-CAA     GUGGGUUCAAAUCCCA-----CUGACA 81
chr-15.trna20-Leu-CAA     GUGGGUUCAAAUCCCA-C-UUCUAACA 84
chr-12.trna202-Leu-CAA    GUGGCUUCAAAUCCCA-C-UUCUGACA 84
chr-10.trna17-Leu-CAA     GUGUUUUCAAAU-CCA-C-UUCUAACA 83
chr-6.trna98-Leu-CAA      AUGGGUUCAAAUCCCA-U-UCUUGACA 81
chr-2.trna22-Leu-CAA      AUGGGUUCAAAUCCCA-C-UUCUGACA 78
chr-15.trna48-Leu-CAA     GUGGGUUCAAAUCCCAACAAUUUAAUU 86
chr-14.trna7-Leu-CAA      GUGGGUUCAAAUCCCA----CAUAAUU 75
chr-12.trna5-Leu-CAA      GAGAGUUCGAACCUCU--CUCGCCCCG 74
chr-1.trna224-Leu-CAA     GAGAGUUCGAGCUUCU--CUCACCCCA 74
                          .........70........80......
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