```
                                 (((((((..(((.(.....)).)))((((((.......))))))(.......)).. 
chr-4.trna79-Leu-TAG             GACAGUUUGGCAGAG-UGGUCUAUGGCGGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-2.trna80-Leu-AAG             GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-11.trna27-Leu-AAG            GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-5.trna10-Leu-AAG             GUGGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-9.trna48-Leu-AAG             GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-7.trna13-Leu-AAG             GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-5.trna44-Leu-AAG             GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-10.trna40-Leu-AAG            GUGGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-5.trna137-Leu-AAG            GUGGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-6.trna92-Leu-AAG             GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-9.trna34-Leu-AAG             GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-10.trna4-Leu-AAG             GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-10.trna11-Leu-AAG            AUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-5.trna1-Leu-CAG              GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-5.trna5-Leu-CAG              GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-5.trna33-Leu-CAG             GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-5.trna111-Leu-CAG            GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-4.trna77-Leu-CAG             GUCAAGGUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-8.trna50-Leu-AAG             GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----AAAAGGGC 56
chr-11.trna31-Leu-AAG            GUUGAGAUGGCCGAGUUAGUCUAAGGCGCCAUAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-9.trna35-Leu-AAG             GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGUUUCUGGUCC----GAAAGAGC 56
chr-9.trna36-Leu-TAG             GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-8.trna41-Leu-TAG             GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-10.trna42-Leu-TAG            GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-5.trna6-Leu-TAG              GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-5.trna7-Leu-TAG              GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-5.trna17-Leu-TAG             GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-5.trna18-Leu-TAG             GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-10.trna38-Leu-TAG            GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-4.trna28-Leu-TAG             GGCAAUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAGAGGGC 55
chr-6.trna87-Leu-TAG             GACAAUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGUUCUGGUUU----GAAAGGGC 55
chr-5.trna4-Leu-CAG              GUUAAGAUGGCCGAGUUGGUCUUAGGCGCCAGUUUCAGGUACUGGUCC----GAAAG-GC 55
chr-6.trna96-Leu-CAA             GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-9.trna22-Leu-CAA             GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-10.trna12-Leu-CAA            GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-5.trna126-Leu-CAA            GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUGAGAGGGC 59
chr-8.trna61-Leu-CAA             GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUGAGAGGGC 59
chr-1.trna33-Leu-CAA             GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUGAGAGGGC 59
chr-5.trna58-Leu-CAA             GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUUCUCGUGAGGAGC 59
chr-10.trna13-Leu-CAA            GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUGAGAGGGC 59
chr-6.trna21-Leu-CAA             GUCAGGAUGGCCGAG-AGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUGAGAGGGC 59
chr-5.trna83-Leu-CAA             GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGAAAGAGGGC 59
chr-8.trna19-Leu-CAA             GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGAAAGAGGGC 59
chr-2.trna48-Leu-CAA             GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGAGAGAAGGC 59
chr-4.trna67-Leu-CAA             GUCAAGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUGAGAGGGC 59
chr-10.trna15-Leu-CAA            GUCAGGAUGGCUGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUAGUCCUCGAGAGAGGGC 59
chr-4.trna68-Leu-CAA             UUCAGGAUGGACGAG-UGGUGUAAGGCGUCAGACUCAAGUUCUGGUCUUCGUGAGAAGGC 59
chr-5.trna87-Leu-CAA             GUCAGGAUGGCUGAG-UGGUCUAAGGUGCUAGACUCAAGUUUUGGUCCUCGUUAGAGGGC 59
chr-1.trna74-Leu-TAA             GCAGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-3.trna21-Leu-TAA             GCAGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-3.trna41-Leu-TAA             GCAGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-6.trna76-Leu-TAA             GCAGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-6.trna97-Leu-TAA             GCUGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-4.trna51-Leu-TAA             GCAGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-9.trna42-Leu-TAA             GCUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACACAAGUGCGC 58
chr-6.trna39-Leu-TAA             GCUGGUGUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-6.trna83-Leu-TAA             GCAGGUUUGCCCGAG-AGGU-UAAGGGCGAAGACUUAAGAUCUUUUGCACAUAAGUGCGC 58
chr-1.trna70-Leu-CAA             GUCUUGGUGGUGAAA-UGGU-AGACACGCGAGACUCAAAAUCUCGUGCU--AAAGAGCGU 56
chr-2.trna20-Leu-CAA             GCCUUGGUGGUGAAA-UGGU-AGACACGCGAGACUCAAAAUCUCGUGCU--AAAGAGCGU 56
chr-6.trna95-Leu-CAA             GCCUUGGUGGUGAAA-UGGU-AGACACGCGAGACUCAAAAUCUCGUGCU--AAAGAGCGU 55
chr-4.trna29-Leu-CAA             GCCUUUGUAGUGAAA-UGGU-AGACACGCGAGACUCAAAAUCUCGUGCU--AAAGAGCGU 56
chr-3.trna16-Leu-TAA             GUAUC---UACCCAGUUGGUAGAGUA--GAGGACUUAAAAUCCUUCUG----------UC 45
                                 .........10........20........30........40........50.........
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                                 (((((........)))))).)))))).
chr-4.trna79-Leu-TAG             GUGGA-UUCAAAUCUCUCAG--CUGUCA 80
chr-2.trna80-Leu-AAG             GUGGG-UUCAAAUCCCACUC--UCAACA 81
chr-11.trna27-Leu-AAG            GUGGG-UUCAAAUCCCACUC--UCAACA 81
chr-5.trna10-Leu-AAG             GUGGG-UUCAAAUCCCACUC--UCCACA 81
chr-9.trna48-Leu-AAG             GUGGG-UUCAAAUCCCACUC--UCAACA 81
chr-7.trna13-Leu-AAG             GUGGG-UUCAAAUCCCACUC--UCAACA 81
chr-5.trna44-Leu-AAG             GUGGG-UUCAAAUCCCACUC--UCAACA 81
chr-10.trna40-Leu-AAG            GUGGG-UUCAAAUCCCACUC--UUCACA 81
chr-5.trna137-Leu-AAG            GUGGG-UUCAAAUCCCACUC--UCCACA 81
chr-6.trna92-Leu-AAG             GUGGG-UUCAAAUCCCACUC--UCAACA 81
chr-9.trna34-Leu-AAG             GUGGG-UUCAAAUCCCACUC--UCAACA 81
chr-10.trna4-Leu-AAG             GUGGG-UUCAAAUCCCACUC--UCAACA 81
chr-10.trna11-Leu-AAG            GUGGG-UUCAAAUCCCACUC--UCAACA 81
chr-5.trna1-Leu-CAG              AUGGG-UUCGAAUCCCAUUC--UUGACA 81
chr-5.trna5-Leu-CAG              AUGGG-UUCGAAUCCCAUUC--UUGACA 81
chr-5.trna33-Leu-CAG             AUGGG-UUCGAAUCCCAUUC--UUGACA 81
chr-5.trna111-Leu-CAG            AUGGG-UUCGAAUCCCAUUC--UUGACA 81
chr-4.trna77-Leu-CAG             AUGGG-UUCGAAUCCCAUUC--UUGACA 81
chr-8.trna50-Leu-AAG             GUGUG-UUCAAAUCCCACUC--UCAACA 81
chr-11.trna31-Leu-AAG            GUGGG-UUCAAAUCCCACUC--UCAACA 81
chr-9.trna35-Leu-AAG             GUGGGUUUCAAAUCCCACUC--UCAACA 82
chr-9.trna36-Leu-TAG             GUGGG-UUCAAAUCCCACAG--CUGUCA 80
chr-8.trna41-Leu-TAG             GUGGG-UUCAAAUCCCACAG--CUGUCA 80
chr-10.trna42-Leu-TAG            GUGGG-UUCAAAUCCCACAG--CUGUCA 80
chr-5.trna6-Leu-TAG              GUGGG-UUCAAAUCCCACAG--CUGUCA 80
chr-5.trna7-Leu-TAG              GUGGG-UUCAAAUCCCACAG--CUGUCA 80
chr-5.trna17-Leu-TAG             GUGGG-UUCAAAUCCCACAG--CUGUCA 80
chr-5.trna18-Leu-TAG             GUGGG-UUCAAAUCCCACAG--CUGUCA 80
chr-10.trna38-Leu-TAG            GUGGG-UUCAAAUCCCACAG--CUGUCA 80
chr-4.trna28-Leu-TAG             GUGGG-UUCAAAUCCCACAG--UUGUCA 80
chr-6.trna87-Leu-TAG             GUGGG-UUCAAAUCCCACAG--UUGUUA 80
chr-5.trna4-Leu-CAG              AUGGG-UUCGAAUCCCAUUC--UUGACA 80
chr-6.trna96-Leu-CAA             GUGGG-UUCAAAUCCCACUU--CUGACA 84
chr-9.trna22-Leu-CAA             GUGGG-UUCAAAUCCCACUU--CUGACA 84
chr-10.trna12-Leu-CAA            GUGGG-UUCAAAUCCCACUU--CUGACA 84
chr-5.trna126-Leu-CAA            GUGGG-UUCAAAUCCCACUU--CUGACA 84
chr-8.trna61-Leu-CAA             GUGGG-UUCAAAUCCCACUU--CUGACA 84
chr-1.trna33-Leu-CAA             GUGGG-UUCAAAUCCCACUU--UUGACA 84
chr-5.trna58-Leu-CAA             GUGGG-UUCAAAUCCCACUU--CUGACA 84
chr-10.trna13-Leu-CAA            GUGGG-UUCAUAUCCCAUUU--CUGACA 84
chr-6.trna21-Leu-CAA             GUGGG-UUCAAAUCCCACUU--CUGACA 84
chr-5.trna83-Leu-CAA             GUGGG-UUCAAAUCCCACUU--CUGACA 84
chr-8.trna19-Leu-CAA             GUGGG-UUCAAAUCCCACUU--CUGACA 84
chr-2.trna48-Leu-CAA             GUGGG-UUCAAAUCCCACUU--CUGACA 84
chr-4.trna67-Leu-CAA             GUGGG-UUCAAAUCCCACUU--CUGACA 84
chr-10.trna15-Leu-CAA            GUGGG-UUCAAAUCUCACUU--CUGACA 84
chr-4.trna68-Leu-CAA             GUGGG-UUCAAAUCCCACUU--CUGACA 84
chr-5.trna87-Leu-CAA             GUGGG-UUUAAAUCCCACUU--CUGACA 84
chr-1.trna74-Leu-TAA             GUGGG-UUCGAACCCCACAG--CCUGCA 83
chr-3.trna21-Leu-TAA             GUGGG-UUCGAACCCCACAG--CCUGCA 83
chr-3.trna41-Leu-TAA             GUGGG-UUCGAACCCCACAG--CCUGCA 83
chr-6.trna76-Leu-TAA             GUGGG-UUCGAACCCCACAG--CCUGCA 83
chr-6.trna97-Leu-TAA             AUGGG-UUCGAACCCCAUAG--CCAGCA 83
chr-4.trna51-Leu-TAA             GUGGG-UUCGAACCCCACAG--CCUGCA 83
chr-9.trna42-Leu-TAA             GUGGG-UUCGAACCCCACAG--CCAGCA 83
chr-6.trna39-Leu-TAA             GUGGG-UUCGAACCCCACAG--CCAGCA 83
chr-6.trna83-Leu-TAA             GUGGG-UUCGAACCCCACAG--GCUGCA 83
chr-1.trna70-Leu-CAA             GGAGG-UUCUAGUCCUCUUC--AUGGCA 81
chr-2.trna20-Leu-CAA             GGAGG-UUCGAGUCCUCUUC--AAGACA 81
chr-6.trna95-Leu-CAA             GGAGG-UUCGAGUCCUCUUC--AAGGCA 80
chr-4.trna29-Leu-CAA             GGAGG-UUUGAGUCCUCUUC--AAGGCA 81
chr-3.trna16-Leu-TAA             AUUGG-UUCAAAUCUGAUUCUUGGUACA 72
                                 .........70........80.......
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