```
                         (((((((..(((.(.....)).)))).(((((.......))))).(((((....))))).
chr-10.trna60-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGGAAGGGC-- 56
chr-10.trna58-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCAAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-1.trna59-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-1.trna87-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-1.trna88-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-10.trna62-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-10.trna61-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-11.trna33-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-4.trna56-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-10.trna39-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-4.trna65-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-10.trna63-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-10.trna57-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-4.trna66-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-5.trna10-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-10.trna59-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-7.trna51-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-7.trna44-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-7.trna34-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-5.trna11-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-5.trna62-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-6.trna12-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-4.trna35-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGAGC-- 56
chr-5.trna38-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-5.trna12-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGAAAGGGC-- 56
chr-9.trna45-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUG--GUCCGAAAGGGC-- 56
chr-9.trna44-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUG--GUCCGAAAGGGC-- 56
chr-11.trna31-Leu-CAG    GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUG--GUCCGAAAGGGC-- 56
chr-8.trna15-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUG--GUCCGAAAGGGC-- 56
chr-7.trna10-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUG--GUCCGAAAGGGC-- 56
chr-7.trna4-Leu-CAG      GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUG--GUCCGAAAGGGC-- 56
chr-5.trna36-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUG--GUCCGAAAGGGC-- 56
chr-9.trna32-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCUAGUUUCAGGUACUA--GUCCGAAAGGGC-- 56
chr-3.trna57-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCUAGUUUCAGGUACUA--GUCCGAAAGGGC-- 56
chr-6.trna92-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCUAGUUUCAGGUACUA--GUCCGAAAGGGC-- 56
chr-10.trna64-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUG--GUCCGGAAGGGCG- 57
chr-9.trna46-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-11.trna1-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-5.trna55-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-5.trna54-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-5.trna53-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-5.trna52-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-5.trna51-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-5.trna50-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-2.trna36-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-6.trna91-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-5.trna56-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-10.trna7-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-5.trna2-Leu-TAG      GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-5.trna58-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-5.trna57-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-9.trna30-Leu-TAG     GACAGUUUAGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAAAGGGC-- 55
chr-5.trna49-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUG--GUCCGAGAGGGC-- 55
chr-4.trna79-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGAAAGAGGGC 59
chr-8.trna17-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGAGAGAGGGC 59
chr-9.trna16-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUAAGAGGGC 59
chr-10.trna35-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUAAGAGGGC 59
chr-3.trna51-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-3.trna53-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-4.trna22-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-7.trna59-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-10.trna65-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-1.trna99-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUUCUCGUGAGAGAGC 59
chr-3.trna50-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUUGUGAGAGGGC 59
chr-3.trna52-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUUGUGAGAGGGC 59
chr-2.trna50-Leu-TAA     GCUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-1.trna51-Leu-TAA     GCUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-5.trna32-Leu-TAA     GCUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-11.trna28-Leu-TAA    GCUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-8.trna56-Leu-TAA     GCUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-8.trna22-Leu-TAA     GCUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACACAAGUGCGC 58
chr-1.trna56-Leu-CAA     GCCUUGAUGGUGAAA-UGGU-AGACAUGCGAGACUCAAAAUCUCAUGCU--AAAGAGCAU 56
chr-10.trna34-Leu-CAA    GCCUUGAUGGUGAAA-UGGU-AGACACACGAGACUCAAAAUCUCGUGCU--AAAGAGUGU 56
chr-8.trna9-Leu-CAA      GCCUUGAUGGUGAAA-UGGU-AGACACGCGAGACUCAAAAUCUCGUGCU--AAAGAGCGU 56
chr-5.trna60-Leu-TAA     GCCUUGAUGGUGAAA-UGGU-AGACACGCGAGACUUAAAAUCUCGUGCU--AAAGAGCGU 56
chr-4.trna6-Leu-CAA      GCCUUGAUGGUGAAA-UGGU-GGACACAUGAGACUCAAAAUCUCGUGCU--AAAGAGCAU 56
chr-5.trna27-Leu-CAA     GUCUUGAUGGUGAAA-UGGU-AGACACAUGAGACUCAAAAUCUCAUGCU--AAAGAGUGU 56
                         .........10........20........30........40........50.........
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                         (((((.......)))))))))))).
chr-10.trna60-Leu-AAG    GUGGGUUCGAAUCCCACUCUCAACA 81
chr-10.trna58-Leu-AAG    GUGGGUUCGAAUCCCACUCUCAACA 81
chr-1.trna59-Leu-AAG     GUGGGUUCAAAUCCCACUCUCAACA 81
chr-1.trna87-Leu-AAG     GUGGGUUCAAAUCCCACUCUCAACA 81
chr-1.trna88-Leu-AAG     GUGGGUUCAAAUCCCACUCUCAACA 81
chr-10.trna62-Leu-AAG    GUGGGUUCAAAUCCCACUCUCAACA 81
chr-10.trna61-Leu-AAG    GUGGGUUCAAAUCCCACUCUCAACA 81
chr-11.trna33-Leu-AAG    GUGGGUUCAAAUCCCACUCUCAACA 81
chr-4.trna56-Leu-AAG     GUGGGUUCAAAUCCCACUCUCAACA 81
chr-10.trna39-Leu-AAG    GUGGGUUCAAAUCCCACUCUCAACA 81
chr-4.trna65-Leu-AAG     GUGGGUUCAAAUCCCACUCUCAACA 81
chr-10.trna63-Leu-AAG    GUGGGUUCAAAUCCCACUCUCAACA 81
chr-10.trna57-Leu-AAG    GUGGGUUCAAAUCCCACUCUCAACA 81
chr-4.trna66-Leu-AAG     GUGGGUUCAAAUCCCACUCUCAACA 81
chr-5.trna10-Leu-AAG     GUGGGUUCAAAUCCCACUCUCAACA 81
chr-10.trna59-Leu-AAG    GUGGGUUCAAAUCCCACUCUCAACA 81
chr-7.trna51-Leu-AAG     GUGGGUUCAAAUCCCACUCUCAACA 81
chr-7.trna44-Leu-AAG     GUGGGUUCAAAUCCCACUCUCAACA 81
chr-7.trna34-Leu-AAG     GUGGGUUCAAAUCCCACUCUCAACA 81
chr-5.trna11-Leu-AAG     GUGGGUUCAAAUCCCACUCUCAACA 81
chr-5.trna62-Leu-AAG     GUGGGUUCAAAUCCCACUCUCAACA 81
chr-6.trna12-Leu-AAG     GUGGGUUCAAAUCCCACUCUCAACA 81
chr-4.trna35-Leu-AAG     GUGGGUUCAAAUCCCACUCUCAACA 81
chr-5.trna38-Leu-AAG     GUGGGUUCAAAUCCCAGUCUCAACA 81
chr-5.trna12-Leu-AAG     GUGGGUUCAAAUCCCACUGUCAACA 81
chr-9.trna45-Leu-CAG     AUGGGUUCGAAUCCCAUUCUUGACA 81
chr-9.trna44-Leu-CAG     AUGGGUUCGAAUCCCAUUCUUGACA 81
chr-11.trna31-Leu-CAG    AUGGGUUCGAAUCCCAUUCUUGACA 81
chr-8.trna15-Leu-CAG     AUGGGUUCGAAUCCCAUUCUUGACA 81
chr-7.trna10-Leu-CAG     AUGGGUUCGAAUCCCAUUCUUGACA 81
chr-7.trna4-Leu-CAG      AUGGGUUCGAAUCCCAUUCUUGACA 81
chr-5.trna36-Leu-CAG     AUGGGUUCGAAUCCCAUUCUUGACA 81
chr-9.trna32-Leu-CAG     AUGGGUUCGAAUCCCAUUCUUGACA 81
chr-3.trna57-Leu-CAG     AUGGGUUCGAAUCCCAUUCUUGACA 81
chr-6.trna92-Leu-CAG     AUGGGUUCGAAUCCCAUUCUUGACA 81
chr-10.trna64-Leu-AAG    GUGGGUUCAAAUCCCACUCUCAACA 82
chr-9.trna46-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-11.trna1-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-5.trna55-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-5.trna54-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-5.trna53-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-5.trna52-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-5.trna51-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-5.trna50-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-2.trna36-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-6.trna91-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-5.trna56-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-10.trna7-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-5.trna2-Leu-TAG      GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-5.trna58-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-5.trna57-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-9.trna30-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGUCA 80
chr-5.trna49-Leu-TAG     GUGGGUUCAAAUCCCACAGCUGGCG 80
chr-4.trna79-Leu-CAA     GUGGGUUCAAAUCCCACUUCUGACA 84
chr-8.trna17-Leu-CAA     GUGGGUUCAAAUCCCACUUCUGACA 84
chr-9.trna16-Leu-CAA     GUGGGUUCAAAUCCCACUUCUGACA 84
chr-10.trna35-Leu-CAA    GUGGGUUCAAAUCCCACUUCUGACA 84
chr-3.trna51-Leu-CAA     GUGGGUUCAAAUCCCACUUCUGACA 84
chr-3.trna53-Leu-CAA     GUGGGUUCAAAUCCCACUUCUGACA 84
chr-4.trna22-Leu-CAA     GUGGGUUCAAAUCCCACUUCUGACA 84
chr-7.trna59-Leu-CAA     GUGGGUUCAAAUCCCACUUCUGACA 84
chr-10.trna65-Leu-CAA    GUGGGUUCAAAUCCCACUUCUGACA 84
chr-1.trna99-Leu-CAA     GUGGGUUCAAAUCCCACUUCUGACA 84
chr-3.trna50-Leu-CAA     GUGGGUUCAAAUCCCACUUCUGACA 84
chr-3.trna52-Leu-CAA     GUGGGUUCAAAUCCCACUUCUGACA 84
chr-2.trna50-Leu-TAA     AUGGGUUCGAACCCCAUAGCCAGCA 83
chr-1.trna51-Leu-TAA     AUGGGUUCGAACCCCAUAGCCAGCA 83
chr-5.trna32-Leu-TAA     AUGGGUUCGAACCCCAUAGCCAGCA 83
chr-11.trna28-Leu-TAA    AUGGGUUCGAACCCCAUAGCCAGCA 83
chr-8.trna56-Leu-TAA     AUGGGUUCGAACCCCAUAGCCAGCA 83
chr-8.trna22-Leu-TAA     AUGGGUUCGAACCCCAUAGCCAGCA 83
chr-1.trna56-Leu-CAA     GGAGGUUCGAGUCCUCUUCAAGGCA 81
chr-10.trna34-Leu-CAA    GGAGGUUCGAGUCCUCUUCAAGGCA 81
chr-8.trna9-Leu-CAA      GGAGGUUCGAGUCCUCUUCAAGGAA 81
chr-5.trna60-Leu-TAA     GGAAGUUCGAGUCCUCUUCAAGGCA 81
chr-4.trna6-Leu-CAA      GGAGGUUGGUGUCCUCUACAAGGCA 81
chr-5.trna27-Leu-CAA     GGACAUUCAAGUCC-CAUCAAGGCA 80
                         .........70........80....
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