```
                                 (((((.((.((((.....)))).(((.(((.......))))))).((((....)))))))(
chr-2.trna4-Leu-TAG              UUU------GGCCGAG-UGAUUUAAGGCGCCAGAUUUAGGCUCUGGUUCGAAAGGGCGUG 53
chr-3.trna66-Leu-TAG             UUU------GGCCGAG-UGAUUUAAGGCGCCAGAUUUAGGCUCUGGUUUGAAAGGGCGUG 53
chr-13.trna25-Leu-TAG            GACAG-UUUGGCCGAG-UGGUCUAAGGCGUUAGAUUUAGGCUCUGGUCCGGAAGGGCGUG 58
chr-9.trna108-Leu-TAG            GAUGG-UUUGGCCGAG-UGGUCUAAGGCGUUAGAUUUAGACUCUAGUCCGAAAGGGCGUG 58
chr-2.trna22-Leu-TAG             GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-5.trna96-Leu-TAG             GAUGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-3.trna20-Leu-TAG             GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-4.trna47-Leu-TAG             GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-4.trna154-Leu-TAG            GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-13.trna21-Leu-TAG            GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-13.trna22-Leu-TAG            GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-13.trna24-Leu-TAG            GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-14.trna69-Leu-TAG            GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-13.trna171-Leu-TAG           GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-13.trna175-Leu-TAG           GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-13.trna174-Leu-TAG           GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-4.trna48-Leu-TAG             GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-4.trna51-Leu-TAG             GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-4.trna52-Leu-TAG             GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-4.trna58-Leu-TAG             GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-4.trna59-Leu-TAG             GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-15.trna168-Leu-TAG           GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-5.trna84-Leu-TAG             GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-5.trna97-Leu-TAG             GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-9.trna105-Leu-TAG            GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-10.trna25-Leu-TAG            GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-10.trna27-Leu-TAG            GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-12.trna70-Leu-TAG            GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-10.trna2-Leu-TAG             GAUGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-13.trna168-Leu-TAG           GACAG-UUUGGCCGAG-UGGUCAAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-15.trna169-Leu-TAG           GACGG-UUUGGCCGAG-UGGUCUAAGGUGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-5.trna45-Leu-TAG             GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUUCGAAAGGGCGUG 58
chr-7.trna11-Leu-TAG             GACGG-UUUGGCCGAG-CGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-13.trna170-Leu-TAG           GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGUAAGGGCGUG 58
chr-13.trna172-Leu-TAG           GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-4.trna186-Leu-TAG            GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-4.trna231-Leu-TAG            GACGG-UUUGGCCGAG-UGGUCUAAGGCGUCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-5.trna47-Leu-TAG             GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAAAUUUAGGCUCUGGUCCGAAAGGGUGUG 58
chr-7.trna10-Leu-TAG             GACGG-UUUGGCUGAG-CGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGUGUG 58
chr-11.trna19-Leu-TAG            GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGAGUG 58
chr-9.trna70-Leu-TAG             GACAG-UUUGACCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGAGUG 58
chr-1.trna71-Leu-TAG             GACAG-UUUGGCCGAG-UUGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-13.trna23-Leu-TAG            GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-10.trna26-Leu-TAG            GACGG-UUUGGCAGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGCG 58
chr-9.trna155-Leu-TAG            GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCUGAAAGGGCGUG 58
chr-5.trna46-Leu-TAG             GACGG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCUGAAAGGGCGUG 58
chr-13.trna195-Leu-TAG           GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-13.trna169-Leu-TAG           GACAG-UUUGGCCGAG-UGGUCUAAGGCGCUAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-12.trna69-Leu-TAG            GACGA-UUUUGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-15.trna171-Leu-TAG           GAAGG-UUUGGCCGAG-UCGUCUAAGGCGCUAAAUUUAGGCUUUGGUCUGAAAGGGCGUG 58
chr-10.trna49-Leu-TAG            GUCAA-GAUGGUCGAGUUGGUCUAAGGUGUUAGUUUUAGGUACUAGUCCGAAAGGGCAUG 59
chr-13.trna173-Leu-TAG           GACAG-UUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAAAGGGCGUG 58
chr-15.trna166-Leu-TAG           GACGG-UUUGGCCAAG-UUGUCUAAAGCGCCAGAUUUAGGAUCUGGUUUGAAAGGGCGUG 58
chr-15.trna167-Leu-TAG           GACGG-UUUGGCCGAG-UUGUCUAAAGCGCCAGAUUUAGGCUUUGGUUUGAAAGGGCGUG 58
chr-6.trna103-Leu-TAG            CUGAC-UUUAGCUCAGUUGGU--AGAGCGGAGGAUGUAGUAUCCUU------AGGUUGCU 51
chr-6.trna100-Leu-TAG            CUGAC-UUUAGCUCAGUUGGU--AGAGCGGAGGAUGUAGUAUCCUU------ACGGUGCU 51
chr-12.trna142-Leu-TAG           GCCGC--UAUGGUGAAAUUGGUAGACACGCUGCUCUUAGAAAGCAGUGUUG----CUCUC 54
chr-13.trna12-Leu-TAG            GCCGCGCUAUGGUGAAAUUGGUAGACACGUUGCUCUUAGGAAGCAGUGCUAGCACCUCUC 60
chr-9.trna135-Leu-TAG            GGGUG-UUUGGUCUAG-UGGUAUAA--UUCUCGCUUUAG--GUGAGA----GAGGUCUUG 50
                                 .........10........20........30........40........50.........
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                                 ((.............))))...)))))))..
chr-2.trna4-Leu-TAG              GG-----UUCAAAUCCCU---CAAAAAAA-U 75
chr-3.trna66-Leu-TAG             GG-----UUCAAAUCCCU---CAAAAAAA-U 75
chr-13.trna25-Leu-TAG            GG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-9.trna108-Leu-TAG            GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-2.trna22-Leu-TAG             GG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-5.trna96-Leu-TAG             GG-----UUCAAAUCCCA---CAACCGUC-A 80
chr-3.trna20-Leu-TAG             GG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-4.trna47-Leu-TAG             GG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-4.trna154-Leu-TAG            GG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-13.trna21-Leu-TAG            GG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-13.trna22-Leu-TAG            GG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-13.trna24-Leu-TAG            GG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-14.trna69-Leu-TAG            GG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-13.trna171-Leu-TAG           GG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-13.trna175-Leu-TAG           GG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-13.trna174-Leu-TAG           GG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-4.trna48-Leu-TAG             GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-4.trna51-Leu-TAG             GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-4.trna52-Leu-TAG             GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-4.trna58-Leu-TAG             GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-4.trna59-Leu-TAG             GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-15.trna168-Leu-TAG           GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-5.trna84-Leu-TAG             GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-5.trna97-Leu-TAG             GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-9.trna105-Leu-TAG            GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-10.trna25-Leu-TAG            GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-10.trna27-Leu-TAG            GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-12.trna70-Leu-TAG            GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-10.trna2-Leu-TAG             GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-13.trna168-Leu-TAG           GG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-15.trna169-Leu-TAG           GG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-5.trna45-Leu-TAG             GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-7.trna11-Leu-TAG             GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-13.trna170-Leu-TAG           GG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-13.trna172-Leu-TAG           GG-----UUCAAAUCCCA---CAGUUGUC-A 80
chr-4.trna186-Leu-TAG            GG-----UUCAAAUCCCA---CAGUCGUC-A 80
chr-4.trna231-Leu-TAG            GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-5.trna47-Leu-TAG             GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-7.trna10-Leu-TAG             GG-----UUCAAAUCCUA---CAGCCGUC-A 80
chr-11.trna19-Leu-TAG            GG-----UUCAAAUCCUA---CAGCCGUC-A 80
chr-9.trna70-Leu-TAG             GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-1.trna71-Leu-TAG             AG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-13.trna23-Leu-TAG            AG-----UUCAAAUCCCA---CAGCUGUC-A 80
chr-10.trna26-Leu-TAG            GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-9.trna155-Leu-TAG            GG-----UUUAAAUCCCA---UAGCCGUC-A 80
chr-5.trna46-Leu-TAG             UG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-13.trna195-Leu-TAG           GG------UCAAAUCCCA---UAGCUGUC-A 79
chr-13.trna169-Leu-TAG           GGU----UUCAAAUCCCA---CAGCUGUC-A 81
chr-12.trna69-Leu-TAG            GG-----UUCAAAUCCCA---CAGCAGUC-A 80
chr-15.trna171-Leu-TAG           GG-----UUCAAAUCCCA---CAGCCGUC-A 80
chr-10.trna49-Leu-TAG            GG-----UUCAAAUCCCA---UUCUUGAC-A 81
chr-13.trna173-Leu-TAG           GGUUGGGUUCAAAUCCCA---UAGCUGUC-A 85
chr-15.trna166-Leu-TAG           GG-----UUCGAAUCCCA---CAGCCCUC-A 80
chr-15.trna167-Leu-TAG           GG-----UUCAAAUCCCA---CAGCCCUC-A 80
chr-6.trna103-Leu-TAG            GG-----UUUGAAUCUGG---CAGGUCGG-A 73
chr-6.trna100-Leu-TAG            GG-----UUUGAAUCCGG---CAGGUCAG-A 73
chr-12.trna142-Leu-TAG           GG-----UUUAAGUCUGA---GUGGCGGC-A 76
chr-13.trna12-Leu-TAG            GG-----UUUGAAUCCGA---AUGGCGGC-A 82
chr-9.trna135-Leu-TAG            AG-----UUUAAUUCUCACGACAUCACCUCA 76
                                 .........70........80........90
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