```
                        (((....((((..((((.........).))).(((((.......)))))).....(((((.
chr-7.trna7-Ile-AAT     GGU----CUAUUAAUUUAGUUGGUUAG-AGCAUCAUGCUAAUAAUAUGAAAGUCACAUAU 55
chr-8.trna1-Ile-AAT     GGC----CUAUUAGUUCAAUUGAUUAG-AGCAUUGUGCCAAUAACGCAAAAGUCUCAUGU 55
chr-19.trna36-Ile-AAT   GAC----CUAUUAGCUCAGUUAGUUAG-AGUAUCAUGCUAAUAAUAUGAAAAUCACAAGU 55
chr-11.trna32-Ile-AAT   GAU----CUAUUAGCUUAGUUGGUUAG-AGUGUCGUGUUAAUAAUUUGAAUGUCAUAGGU 55
chr-16.trna6-Ile-AAT    GGC----CUAUUAACUCAAUUGGUUAG-AGUUUCGUGCUAAUAGCAUGAAAGUCACAGGU 55
chr-11.trna57-Ile-AAT   GAC----CUAUUAGCUUAGUUGGUUAA-AGUGUUGUACUAAUAAUACGAAAGUCACUGGU 55
chr-4.trna29-Ile-AAT    GGC----CUAUUAGCUCAGCUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-5.trna50-Ile-AAT    GGC----CUAUUAGCUCAGCUAGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-13.trna67-Ile-AAT   GGC----CUAUUAGCUCAGCUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-13.trna50-Ile-AAT   GGC----CUAUUAGCUCAGCUGGUUAG-AGUGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-1.trna13-Ile-AAT    GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-19.trna42-Ile-AAT   GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-1.trna42-Ile-AAT    GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-2.trna3-Ile-AAT     GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-20.trna14-Ile-AAT   GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-8.trna49-Ile-AAT    GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-10.trna33-Ile-AAT   GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-13.trna6-Ile-AAT    GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-19.trna10-Ile-AAT   GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-14.trna18-Ile-AAT   GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-15.trna3-Ile-AAT    GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-16.trna21-Ile-AAT   GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-17.trna9-Ile-AAT    GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-8.trna12-Ile-AAT    GGC----CCAUUAGCUCAGUUGGUUAG-AGCGUGGUGCUAAUAACGCCAAGGUCGCAGGU 55
chr-5.trna25-Ile-AAT    GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUGGUGCUAAUAACGCCAAGGUCGCAGGU 55
chr-3.trna47-Ile-AAT    GGC----CUAUUAGUUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGGUCGCAGGU 55
chr-4.trna30-Ile-AAT    GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGAUCGCAGGU 55
chr-12.trna47-Ile-AAT   GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUCGUGCUAAUAACGCGAAGAUCGCAGGU 55
chr-3.trna9-Ile-AAT     GGU----CUAUUAGCUCAGUUGGUUAG-AGUGUUGUGCUAAUAAUGCGAAAUUCACAGGU 55
chr-3.trna19-Ile-AAT    GGC----CUAUUAGCUCAGUUGAUUAG-AGCGUCGUGCUAAUAAUGUGAAGGUUGUAGGU 55
chr-20.trna46-Ile-AAT   GGU----CUAUUAACUUAAUUGGUUAG-AGCUUUGUGUUAAUAAUAUGAAAGUCAUAGAU 55
chr-18.trna20-Ile-AAT   GAC----CUAUUAACUCAGUUAGUUAG-AGUAUCAUGUUAAUAACGUGAAAAUCACAGGU 55
chr-18.trna33-Ile-AAT   GAC----CUAUUAGCUUAGUUGAUAAA-AGCGUUGUGUUAAUAACAUGAAAGUCACAUGU 55
chr-15.trna56-Ile-AAT   GAC----CUAUUAGCUCAGUUGGAUAG-AGUGUUGUGCUAAUAAUGCAAAAGUCAUAGGU 55
chr-6.trna40-Ile-AAT    GGU----CUAUUAGUUCAGUUGGUUAA-AGUAUUGUGCUAAUAAUGCAAAAGUCACAGGU 55
chr-2.trna64-Ile-AAT    GGU----CUAUUAGCUCAGUUGAUUAG-AGCGUCGUGCUAAUAACACGAAAGUCACAUGU 55
chr-12.trna6-Ile-AAT    GGC----CUAUUAGCUCAGUUGGUUAG-AGCGUUAUGCUAAUAGCAUGAAAGUCACAAAU 55
chr-13.trna47-Ile-AAT   GAU----CUAUUAGCUUAGGUUGUUAG-AGCGUCGUGCUAAUAACACGAAAGUUACAUGU 55
chr-4.trna5-Ile-AAT     AGU----CUAUUAUUUCAGUUAGUUAG-AACAUCGUGUUAAUAAUCUUGAAAGUUAUAGGU 55
chr-15.trna50-Ile-AAT   GACAA--UUAUUAAUUUAGUUGAUUAG-AGCAUCGUGUUAAUAAUGCGAA-GUCACAGGU 56
chr-20.trna43-Ile-AAT   GAC----UUAUUAGCUCAAUUGGUUAGAAGCAUUGUGCUAAUAAUGUGAAAGUCACAUGU 56
chr-13.trna15-Ile-AAT   GGU----CUAUUAGUUCAGUUGAUUAG-AAUAUCAUACUAAUAAUGUGAAAAUCAUAGGU 55
chr-10.trna40-Ile-AAT   AGU----CUAUUAGCUCAGUUGAUUAG-AGCAUUGUGCUAAUAACACGAAAGUCAUAGGU 55
chr-1.trna30-Ile-AAT    GAC----CUAUUAGGUCAGUUGAUUAG-AGCGUUGUGUCAAUAACGCAAAAGUCAUAGGU 55
chr-5.trna16-Ile-AAT    GAC----UUAUUAGGUCAAAUGAUUAG-AUUGUUGUGCUAAUAAUGCGAAAGUCACAAGU 55
chr-15.trna52-Ile-AAT   GAC----CUAUUAGCUUGCUUGGUUAG-AGCAUUGUGUUAAUAACGCAAAAGUCAUAAGU 55
chr-2.trna77-Ile-AAT    GAU----AUAUUAAUUCAGUUGGUUAG-AAUGUCAUGUUAAUAACUUGAAAGUCACAAGU 55
chr-18.trna48-Ile-AAT   GAU-----UAUUAACUCAGUUGGUUAG-AGUGUUGUACUAAUAACACAAAAGUCACAGAU 54
chr-1.trna10-Ile-AAT    AAUUAUUCUAUUAGCUCAGUUGAUUAG-AACGUCGUGUUAAUAACGCGAAAGUCACGGGU 59
chr-6.trna16-Ile-AAT    ACU-----UAUUAGCUCAAUUGGUUAG-AGUGUUGUGCUAAUAACACGAAAGUCACAUGU 54
chr-17.trna16-Ile-AAT   UGAU---UUAUUAGUUAAGUUGGUUAA-AAUGUUGCAUUAAUAAUGCAAAAGUUACAAGU 56
chr-9.trna34-Ile-AAT    AGU----UUAUUAGCUCAGUUGGUUAG-AGCAUCAUACUAAUAAUACGAAAGUUACAAGU 55
chr-9.trna5-Ile-AAT     AGG----CUAAUAGCUCAAUUAGUUAG-AGCAUCAUGCUAAUAAUGUGAAAGUUACAGGU 55
chr-18.trna55-Ile-AAT   GAC----CUAUUAGCUUAAUUGGUUAG-AGCGUUGUGCUAAUAACACGAAAGUCACAUGU 55
chr-19.trna31-Ile-AAT   AAUUCAACUAUUAGUUUAGUUGGUUAG-AGUGUCAUGUUAAUAACUUGAAAGUCACAAGU 59
chr-13.trna5-Ile-AAT    --------UAUUAGUUUAGUUGGUUAG-AGUGUCAUGCUAAUUACAUGAAGGUUGCAGGU 51
chr-1.trna4-Ile-AAT     -------UUAUUAGCUCAGUUGAUUAA-AGCGUCAUCUUAAUAAUGUGAAAGUGACAAGU 52
                        .........10........20........30........40........50.........

                        .......))))))))).))).
chr-7.trna7-Ile-AAT     UCAAUU-CCUGUAUGG-AUCA 74
chr-8.trna1-Ile-AAT     UCAAUU-UAUGCAUGG-ACCA 74
chr-19.trna36-Ile-AAT   UUGACU-CUUGCUUGG-GUCA 74
chr-11.trna32-Ile-AAT   UUGAAU-CCUAUAUGG-GUUA 74
chr-16.trna6-Ile-AAT    UUGAGA-CAUGCAUAG-GCCA 74
chr-11.trna57-Ile-AAT   UUAAGA-CCUGCAUGG-GUCA 74
chr-4.trna29-Ile-AAT    UCGAGA-CCUGCAUGG-GCCA 74
chr-5.trna50-Ile-AAT    UCGAGA-CCUGCAUGG-GCCA 74
chr-13.trna67-Ile-AAT   UCGAGA-CCUGCAUGG-GCCA 74
chr-13.trna50-Ile-AAT   UCGAGA-CCUGCAUGG-GCCA 74
chr-1.trna13-Ile-AAT    UCGAGA-CCUGCAUGG-GCCA 74
chr-19.trna42-Ile-AAT   UCGAGA-CCUGCAUAG-GCCA 74
chr-1.trna42-Ile-AAT    UCGAGA-CCUGCAUGG-GCCA 74
chr-2.trna3-Ile-AAT     UCGAGA-CCUGCAUGG-GCCA 74
chr-20.trna14-Ile-AAT   UCGAGA-CCUGCAUGG-GCCA 74
chr-8.trna49-Ile-AAT    UCGAGA-CCUGCAUGG-GCCA 74
chr-10.trna33-Ile-AAT   UCGAGA-CCUGCAUGG-GCCA 74
chr-13.trna6-Ile-AAT    UCGAGA-CCUGCAUGG-GCCA 74
chr-19.trna10-Ile-AAT   UCGAGA-CCUGCAUGG-GCCA 74
chr-14.trna18-Ile-AAT   UCGAGA-CCUGCAUGG-GCCA 74
chr-15.trna3-Ile-AAT    UCGAGA-CCUGCAUGG-GCCA 74
chr-16.trna21-Ile-AAT   UCGAGA-CCUGCAUGG-GCCA 74
chr-17.trna9-Ile-AAT    UCGAGA-CCUGCAUGG-GCCA 74
chr-8.trna12-Ile-AAT    UCGAGA-CCUGCAUGG-GCCA 74
chr-5.trna25-Ile-AAT    UCGAGA-CCUGCAUGG-GCCA 74
chr-3.trna47-Ile-AAT    UCGAGA-CCUGCAUGG-GCCA 74
chr-4.trna30-Ile-AAT    UCGAGA-CCUGCAUGG-GCCA 74
chr-12.trna47-Ile-AAT   UCGAAA-CCUGCAUGG-GCCA 74
chr-3.trna9-Ile-AAT     UCAAGU-CCUGUAUAG-GCCA 74
chr-3.trna19-Ile-AAT    UUGAAA-CCUGCAUAG-GCCA 74
chr-20.trna46-Ile-AAT   UUAAAU-CCUAUAUGG-AUCA 74
chr-18.trna20-Ile-AAT   UCAAAU-CCUGCAUGU-GUCA 74
chr-18.trna33-Ile-AAT   UUAAGA-CUUGCAUAG-GUUA 74
chr-15.trna56-Ile-AAT   UCAAGA-CCUGCAUGA-GUUA 74
chr-6.trna40-Ile-AAT    UUGAUA-UCUGCAUGG-ACUA 74
chr-2.trna64-Ile-AAT    UUGAGU-CUUGCAUGA-GUCA 74
chr-12.trna6-Ile-AAT    UUAAAC-CCUGUAUGG-AUCA 74
chr-13.trna47-Ile-AAT   UUGAUU-CUUGUUUAG-GUCA 74
chr-4.trna5-Ile-AAT     UUGAAU-CCUACAUGG-ACCA 74
chr-15.trna50-Ile-AAT   UUGAUU-CCUGCAUAA-GUCA 75
chr-20.trna43-Ile-AAT   UCAAUU-UCUGUAUGG-GUCA 75
chr-13.trna15-Ile-AAT   UCAAUU-CUUGUUUGG-GCCA 74
chr-10.trna40-Ile-AAT   UCGAUU-CAUAUUUGG-ACCC 74
chr-1.trna30-Ile-AAT    UCAAUU-UCUUUAUGG-GCCA 74
chr-5.trna16-Ile-AAT    UCAAUU-CUUGUAUGG-GCCA 74
chr-15.trna52-Ile-AAT   UUGAAU-CUUGCAUGA-ACCA 74
chr-2.trna77-Ile-AAT    UUGAAU-CCUGCAUGG-AUCA 74
chr-18.trna48-Ile-AAT   UUGAGU-CUUGCAUGG-ACCA 73
chr-1.trna10-Ile-AAT    UCGAGAUCUCGUAUGA-AUUA 79
chr-6.trna16-Ile-AAT    UCGAUU-CUUGCAUGA-UGUA 73
chr-17.trna16-Ile-AAT   UUAAUU-CCUGCUUGAAUCAU 76
chr-9.trna34-Ile-AAT    UUGAUU-CUUGCAUGG-ACGG 74
chr-9.trna5-Ile-AAT     UUGACU-CGUGCUUAG-ACGG 74
chr-18.trna55-Ile-AAT   UCGA----UUCCAUAA-GUCC 71
chr-19.trna31-Ile-AAT   UUGACU-CUUGCUUGA-AUCA 78
chr-13.trna5-Ile-AAT    CCGAGA-CCUGCAUGG-AAAA 70
chr-1.trna4-Ile-AAT     UUGAUU-CUUGCUAUGCACAA 72
                        .........70........80
```