```
                                 ((((((((((((..((((..((.........)).)))).....))))((((........
chr-1.trna52-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-2.trna8-Gly-GCC              GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-2.trna13-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-2.trna14-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-11.trna117-Gly-GCC           GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-11.trna116-Gly-GCC           GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-11.trna115-Gly-GCC           GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-2.trna21-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-11.trna45-Gly-GCC            GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-11.trna14-Gly-GCC            GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-2.trna24-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-2.trna25-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-10.trna47-Gly-GCC            GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-10.trna32-Gly-GCC            GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-2.trna26-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-10.trna30-Gly-GCC            GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-10.trna29-Gly-GCC            GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-2.trna27-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-9.trna24-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-9.trna23-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-2.trna28-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-2.trna29-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-2.trna31-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-2.trna32-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-5.trna23-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-5.trna24-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-5.trna63-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-5.trna67-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-5.trna69-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-7.trna9-Gly-GCC              GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-6.trna94-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-6.trna67-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-2.trna15-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGAUU 58
chr-9.trna25-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUCCAGACCCGGG-UUCGAUU 58
chr-10.trna31-Gly-GCC            GCACCAGUGUUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAUACCCGGG-UUCGAUU 58
chr-2.trna30-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUACAGACCCGGG-UUCGA-U 57
chr-2.trna23-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUA-CCUGCCACGGUACAGACCCGGG-UUCGAUU 57
chr-2.trna22-Gly-GCC             GCACCAGUGGUCUAGUGGU-AGAAUAGUACCCUGCCACGGUCCAGACCCGG--UUCGAUU 57
chr-1.trna7-Gly-CCC              GCGCAUCUGGUGUAGUGGU-AUCAUAGUACCCUCCCACGGUACUGACCGGGG-UUCGAUU 58
chr-9.trna5-Gly-CCC              GCGCAUCUGGUGUAGUGGU-AUCAUAGUACCCUCCCACGGUACUGACCGGGG-UUCGAUU 58
chr-6.trna9-Gly-CCC              GCGCAUCUGGUGUAGUGGU-AUCAUAGUACCCUCCCACGGUACUGACCGGGG-UUCGAUU 58
chr-3.trna3-Gly-CCC              GCGCAUCUGGUGUAGUGGU-AUCAUAGUACCCUCCCACGGUACUGACCGGGG-UUCGAUU 58
chr-4.trna3-Gly-CCC              GCGCAUCUGGUGUAGUGGU-AUCAUAGUACCCUCCCACGGUACUGACCGGGG-UUCGAUU 58
chr-5.trna29-Gly-CCC             GCGCAUCUGGUGUAGUGGU-AUCAUAGUACCCUCCCACGGUACUGACCGGGG-UUCGAUU 58
chr-11.trna55-Gly-CCC            GCGCAUCUGGUGUAGUGGU-AUCAUAGUACCCUCCCACGGUUCUGACCGGGG-UUCGAUU 58
chr-7.trna32-Gly-CCC             GCGCAUCUGGUGUAGUGGU-AUCAUAGUACCCUCCCACGGUGCUGACCAGGG-UUCGAUU 58
chr-7.trna37-Gly-CCC             GCGCAUCUGGUGUAGUGGU-AUCAUAGUACCCUCCCACGGUGCUGACCGGGG-UUCGAUU 58
chr-7.trna33-Gly-TCC             GCGCAUCUGGUGUAGUGGU-AUCAUAGUACCCUCCCAAUAUACAU-CCAGGG-UUCGAUU 57
chr-8.trna43-Gly-TCC             GCGUUUGUAGUCCAAAGGUUAGGAUAAUUGCCUUCCAAGCAAUAGAUCCGGG-UUCGAUU 59
chr-8.trna62-Gly-TCC             GCAUUUGUAGUCCAAAGGUUAGGAUAAUUGCCUUCCAAGCAAUAGAUCCGGG-UUCGAUU 59
chr-8.trna51-Gly-TCC             GCGUCUGUAGUCCAAAGGUUAGGAUAAUUGCCUUCCAAGCAAUAGAUCCGGG-UUCGAUU 59
chr-11.trna2-Gly-TCC             GCGUCUGUAGUCCAAAGGUUAGGAUAAUUGCCUUCCAAGCAAUAGAUCCGGG-UUCGAUU 59
chr-8.trna50-Gly-TCC             GCGUCUGUAGUCCAAAGGUUAGGAUAAUUGCCUUCCAAGCAAUCAAUCCGGG-UUCGAUU 59
chr-1.trna69-Gly-TCC             GCGUUUGUAGUCCAACGGUCAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-1.trna74-Gly-TCC             GCGUUUGUAGUCCAACGGUCAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-1.trna68-Gly-TCC             GCGUUUGUAGUCCAACGGUCAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-1.trna70-Gly-TCC             GCGUUUGUAGUCCAACGGUCAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-1.trna73-Gly-TCC             GCGUUUGUAGUCCAACGGUCAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-1.trna66-Gly-TCC             GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-1.trna67-Gly-TCC             GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-3.trna30-Gly-TCC             GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-3.trna17-Gly-TCC             GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-4.trna94-Gly-TCC             GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-4.trna80-Gly-TCC             GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-1.trna72-Gly-TCC             GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-7.trna39-Gly-TCC             GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-7.trna69-Gly-TCC             GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-1.trna79-Gly-TCC             GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-1.trna80-Gly-TCC             GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-1.trna81-Gly-TCC             GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-10.trna48-Gly-TCC            GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUUGACU 59
chr-1.trna76-Gly-TCC             GCGUUUGUAGUCCAACGGUCAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGG-UUCGACU 59
chr-1.trna71-Gly-TCC             GCGUUUGUAGUCCAACGGUCAGGAUAAUUGCCUUCCAAGCA-UAGACCCGGG-UUCGACU 58
chr-1.trna78-Gly-TCC             GCGUUUGUAGUCCAACGGUUAGGAUAA-UGCCUUCCAAGCAAUAGACCCGGGUUUCGACU 59
chr-1.trna75-Gly-TCC             GCGUUUGUAGUCCAACGGUCAGGAUAAUUGCCUUCCAAG-AAUAGACCCGGG-UUCGACU 58
chr-8.trna110-Gly-ACC            UGUGGUGUAGCUUAGAUGGUAGAGCGCUCACUUACCAUGCGAGAGGUAUGGGGAUCGAUC 60
                                 .........10........20........30........40........50.........
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chr-1.trna52-Gly-GCC             CCCGG-CUGGUGCA 71
chr-2.trna8-Gly-GCC              CCCGG-CUGGUGCA 71
chr-2.trna13-Gly-GCC             CCCGG-CUGGUGCA 71
chr-2.trna14-Gly-GCC             CCCGG-CUGGUGCA 71
chr-11.trna117-Gly-GCC           CCCGG-CUGGUGCA 71
chr-11.trna116-Gly-GCC           CCCGG-CUGGUGCA 71
chr-11.trna115-Gly-GCC           CCCGG-CUGGUGCA 71
chr-2.trna21-Gly-GCC             CCCGG-CUGGUGCA 71
chr-11.trna45-Gly-GCC            CCCGG-CUGGUGCA 71
chr-11.trna14-Gly-GCC            CCCGG-CUGGUGCA 71
chr-2.trna24-Gly-GCC             CCCGG-CUGGUGCA 71
chr-2.trna25-Gly-GCC             CCCGG-CUGGUGCA 71
chr-10.trna47-Gly-GCC            CCCGG-CUGGUGCA 71
chr-10.trna32-Gly-GCC            CCCGG-CUGGUGCA 71
chr-2.trna26-Gly-GCC             CCCGG-CUGGUGCA 71
chr-10.trna30-Gly-GCC            CCCGG-CUGGUGCA 71
chr-10.trna29-Gly-GCC            CCCGG-CUGGUGCA 71
chr-2.trna27-Gly-GCC             CCCGG-CUGGUGCA 71
chr-9.trna24-Gly-GCC             CCCGG-CUGGUGCA 71
chr-9.trna23-Gly-GCC             CCCGG-CUGGUGCA 71
chr-2.trna28-Gly-GCC             CCCGG-CUGGUGCA 71
chr-2.trna29-Gly-GCC             CCCGG-CUGGUGCA 71
chr-2.trna31-Gly-GCC             CCCGG-CUGGUGCA 71
chr-2.trna32-Gly-GCC             CCCGG-CUGGUGCA 71
chr-5.trna23-Gly-GCC             CCCGG-CUGGUGCA 71
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chr-5.trna63-Gly-GCC             CCCGG-CUGGUGCA 71
chr-5.trna67-Gly-GCC             CCCGG-CUGGUGCA 71
chr-5.trna69-Gly-GCC             CCCGG-CUGGUGCA 71
chr-7.trna9-Gly-GCC              CCCGG-CUGGUGCA 71
chr-6.trna94-Gly-GCC             CCCGG-CUGGUGCA 71
chr-6.trna67-Gly-GCC             CCCGG-CUGGUGCA 71
chr-2.trna15-Gly-GCC             CCCAG-CUGGUGCA 71
chr-9.trna25-Gly-GCC             CCCGG-CUGGUGCA 71
chr-10.trna31-Gly-GCC            CCCGG-CUGGUGCA 71
chr-2.trna30-Gly-GCC             UCCGG-CUGGUGCA 70
chr-2.trna23-Gly-GCC             CCCGG-CUGGUGCA 70
chr-2.trna22-Gly-GCC             CCCGG-CUGGUGUC 70
chr-1.trna7-Gly-CCC              CCCCG-GAUGCGCA 71
chr-9.trna5-Gly-CCC              CCCCG-GAUGCGCA 71
chr-6.trna9-Gly-CCC              CCCCG-GAUGCGCA 71
chr-3.trna3-Gly-CCC              CCCCG-GAUGCGCA 71
chr-4.trna3-Gly-CCC              CCCCG-GAUGCGCA 71
chr-5.trna29-Gly-CCC             CCCCG-GAUGCGCA 71
chr-11.trna55-Gly-CCC            CCCCG-GAUGCGCA 71
chr-7.trna32-Gly-CCC             CCCUG-GAUGCGCA 71
chr-7.trna37-Gly-CCC             CCCCG-GAUACGCA 71
chr-7.trna33-Gly-TCC             CCCUG-GAUGCGCA 70
chr-8.trna43-Gly-TCC             CCCGG-CAAACGCA 72
chr-8.trna62-Gly-TCC             CCCGG-CAAAUGCA 72
chr-8.trna51-Gly-TCC             CCCGG-CAGACGCA 72
chr-11.trna2-Gly-TCC             CCCGG-CAGACGCA 72
chr-8.trna50-Gly-TCC             CCCGG-CAGACGCA 72
chr-1.trna69-Gly-TCC             CCCGG-UAAACGCA 72
chr-1.trna74-Gly-TCC             CCCGG-UAAACGCA 72
chr-1.trna68-Gly-TCC             CCCGG-CAAACGCA 72
chr-1.trna70-Gly-TCC             CCCGG-CAAACGCA 72
chr-1.trna73-Gly-TCC             CCCGG-CAAACGCA 72
chr-1.trna66-Gly-TCC             CCCGG-CAAACGCA 72
chr-1.trna67-Gly-TCC             CCCGG-CAAAUGCA 72
chr-3.trna30-Gly-TCC             CCCGG-CAAACGCA 72
chr-3.trna17-Gly-TCC             CCCGG-CAAACGCA 72
chr-4.trna94-Gly-TCC             CCCGG-CAAACGCA 72
chr-4.trna80-Gly-TCC             CCCGG-CAAACGCA 72
chr-1.trna72-Gly-TCC             CCCGG-CAAACGCA 72
chr-7.trna39-Gly-TCC             CCCGG-CAAACGCA 72
chr-7.trna69-Gly-TCC             CCCGG-CAAACGCA 72
chr-1.trna79-Gly-TCC             CCCGG-CAAACGCA 72
chr-1.trna80-Gly-TCC             CCCGG-CAAACGCA 72
chr-1.trna81-Gly-TCC             CCCGG-CAAACGCA 72
chr-10.trna48-Gly-TCC            CCCGG-CAAACGCA 72
chr-1.trna76-Gly-TCC             CCCGGCCAAACGCA 73
chr-1.trna71-Gly-TCC             CCCGG-CAAACGCA 71
chr-1.trna78-Gly-TCC             CCCGG-CAAACGCA 72
chr-1.trna75-Gly-TCC             CCGG--CAAAAGCA 70
chr-8.trna110-Gly-ACC            CUC----UCCAUAU 70
                                 .........70...
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