```
                                (.((.((((...((((.....))))...(((((.......)))))....(((((.....
chr-7.trna87-Gly-TCC      A-UGC-AUCUAGUGUAGUGG-UAUCAUAGUACCCUUCCACGUUACCGGCCGGGGUUCAAU 57
chr-3.trna53-Gly-CCC      A-GCGCAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGUUCGAU 58
chr-3.trna54-Gly-CCC      A-GCGCAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGUUCGAU 58
chr-11.trna92-Gly-CCC     A-CG-CAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGUUCGAU 57
chr-1.trna23-Gly-CCC      G-CG-CAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGUUCGAU 57
chr-3.trna26-Gly-CCC      G-CG-CAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGUUCGAU 57
chr-4.trna91-Gly-CCC      G-CG-CAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGUUCGAU 57
chr-13.trna64-Gly-CCC     G-CG-CAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGUUCGAU 57
chr-10.trna36-Gly-CCC     G-UG-CAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUGACCGGGGUUCGAU 57
chr-9.trna10-Gly-CCC      G-CG-CAUCUAGUGUAGUGG-UAUCAUAGUACCAUCCCACGAUACUGACCGGGGUUCGAU 57
chr-3.trna38-Gly-GCC      G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-3.trna63-Gly-GCC      G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-4.trna37-Gly-GCC      G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-4.trna42-Gly-GCC      G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-4.trna80-Gly-GCC      G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-7.trna66-Gly-GCC      G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-7.trna69-Gly-GCC      G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-8.trna82-Gly-GCC      G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-8.trna87-Gly-GCC      G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-8.trna88-Gly-GCC      G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-9.trna38-Gly-GCC      G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-9.trna75-Gly-GCC      G-CA-CUAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-10.trna101-Gly-GCC    G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-12.trna90-Gly-GCC     G-CA-CUAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-10.trna102-Gly-GCC    G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-12.trna50-Gly-GCC     G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-11.trna76-Gly-GCC     G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-6.trna52-Gly-GCC      G-CA-CCGGUGGUCUAGUGG-CAGAACAGUACCCUGCCACGGUACAGACCUGGGUUCGAU 57
chr-4.trna81-Gly-GCC      G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACGGACCCGGGCUCGAU 57
chr-9.trna32-Gly-GCC      G-CA-CCAGCGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-7.trna68-Gly-GCC      G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-4.trna43-Gly-GCC      G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUUUCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-8.trna89-Gly-GCC      G-CG-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUUCAGACCCGGGUUCUAU 57
chr-7.trna79-Gly-GCC      G-CA-CCAUUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-10.trna72-Gly-GCC     G-CA-CCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-4.trna41-Gly-GCC      G-CA-CCAGUGGCCUAGUGG-UAGAAUAGUACCCUGCCACGGUAUAGACCCGGGUUCGAU 57
chr-7.trna67-Gly-GCC      G-CA-CCAGUGGUCUAGUGA-UAUAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-4.trna55-Gly-GCC      G-CA-CCAGUGGUCUAGGGG-UAGAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-3.trna34-Gly-GCC      G-CA-CGAGUGGUCUAGUGG-UACAAUAGUACCCUGCCACGGUACAGACCCGGGUUCGAU 57
chr-13.trna87-Gly-TCC     G-UG-UUUGUAGUCC-ACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCAAC 57
chr-13.trna90-Gly-TCC     G-CG-UUUGUAGUCCAACGGUUAGGAAAAUUGCCUUCCAAGCAAUAGACCCAGGUUCGAC 58
chr-9.trna57-Gly-TCC      G-CG-UUUGUAGUCCAACGGUUGGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGAC 58
chr-1.trna19-Gly-TCC      G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGAC 58
chr-3.trna4-Gly-TCC       G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGAC 58
chr-11.trna93-Gly-TCC     G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGAC 58
chr-3.trna33-Gly-TCC      G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGAC 58
chr-3.trna61-Gly-TCC      G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGAC 58
chr-13.trna89-Gly-TCC     G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGAC 58
chr-13.trna88-Gly-TCC     G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGAC 58
chr-13.trna86-Gly-TCC     G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGAC 58
chr-13.trna82-Gly-TCC     G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGAC 58
chr-9.trna70-Gly-TCC      G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGAC 58
chr-10.trna35-Gly-TCC     G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGAC 58
chr-9.trna96-Gly-TCC      G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGAC 58
chr-13.trna85-Gly-TCC     G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGAU 58
chr-13.trna84-Gly-TCC     G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAAACCCGGGUUCGAC 58
chr-1.trna87-Gly-TCC      G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAACAAUAGACCCGGGUUCGAC 58
chr-7.trna90-Gly-TCC      G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUUCGAC 58
chr-13.trna83-Gly-TCC     G-CG-UUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGA-CCGGGUUCGAC 57
chr-8.trna38-Gly-TCC      G-UG-UUUAUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGCGUUCGAC 58
chr-1.trna18-Gly-TCC      G-CG-UUUGUACUCCAACGGUUAGGAUACUUGCCUUCCAAGAAAUAGACCCGGGUUCGAC 58
chr-8.trna4-Gly-TCC       G-CG-UUUGUAGUCCAACGGUUACGAUAAAUGCCUUCCAAGCAAUAUACCCGGGUUUGAC 58
chr-2.trna71-Gly-TCC      G-CU-UUUGUAGUCCAACGGUUCGGAUAAUUGUCUUCCAAGCAAUAGACUCGGGUUCAAC 58
chr-2.trna11-Gly-GCC      G-CG-GAUAUAGUCGAAUGG-UAAAAUUUCUCUUUGCCAAGGAGAAGACGCGGGUUUGAU 57
chr-4.trna73-Gly-GCC      G-UG-GAUAUAGUCGAAUGG-UAAAAUUUCUCUUUGCCAAGGAGAAGACGCGGGUUCGAU 57
chr-7.trna34-Gly-GCC      G-CG-GAUAUAGUCGAAUGG-UAAAAUUUCUCUUUGCCAAGGAGAAGACGCAGGUUCGAU 57
chr-6.trna59-Gly-GCC      G-CG-GAUAUAGUCGAAUGG-UAAAAUUUCUCUUUGCCAAGGAGAAGACACGGGUUCGAU 57
chr-7.trna10-Gly-TCC      G-CA-GAUAUAGUCGAAUGG-UAAAAUUUCUCUUUUCCAAGGAGAAGACACGGGUUCGAU 57
chr-13.trna11-Gly-GCC     G-CA-GAUAUAGUCGAAUGG-UAAAAUUUCUCUUUGCCAAGGAGAAGACGCGGGUUCGAU 57
chr-11.trna109-Gly-GCC    G-CA-GAUAUAGUCGAAUGG-UAAAAUUUCUCUUUGCCAAGGAGAAGACGCGGGUUUGAU 57
chr-12.trna51-Gly-GCC     G-CG-GAUAUAGUCGAAUGG-UAAAAUUUCUCUUUGCCAAGGAGAAGACGCGGGUUCGUU 57
chr-3.trna51-Gly-GCC      U-GCGGAUAUAGUCGAAUGG-UAAAAUUUCUCUUUGCCAAGGAGAAGACGCGGGUUCGAU 58
chr-10.trna43-Gly-GCC     A-CG-GAUAUAGUCGAAUGG-UAAAAUUUCUCUUUGCCAAGGAGAAGAUGCGGGUUCAAU 57
chr-12.trna39-Gly-CCC     GAUUGGUUUAAUGGUAAG----ACACAUUGCACUCCCAAAGGGAGGACCCAAGUUCAAA 56
                                .........10........20........30........40........50.........
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chr-7.trna87-Gly-TCC      UCACCGUAUGCGCA 71
chr-3.trna53-Gly-CCC      UCCCCGAAUCGCAA 72
chr-3.trna54-Gly-CCC      UCCCCGAAUCGCAA 72
chr-11.trna92-Gly-CCC     UCCCCGGAUGCGCA 71
chr-1.trna23-Gly-CCC      UCCCCGGAUGCGCA 71
chr-3.trna26-Gly-CCC      UCCCCGGAUGCGCA 71
chr-4.trna91-Gly-CCC      UCCCCGGAUGCGCA 71
chr-13.trna64-Gly-CCC     UCCCCGGAUGCGCA 71
chr-10.trna36-Gly-CCC     UCCCCGGAUGCGCA 71
chr-9.trna10-Gly-CCC      UCCCCGGAUGCGCA 71
chr-3.trna38-Gly-GCC      UCCCGGCUGGUGCA 71
chr-3.trna63-Gly-GCC      UCCCGGCUGGUGCA 71
chr-4.trna37-Gly-GCC      UCCCGGCUGGUGCA 71
chr-4.trna42-Gly-GCC      UCCCGGCUGGUGCA 71
chr-4.trna80-Gly-GCC      UCCCGGCUGGUGCA 71
chr-7.trna66-Gly-GCC      UCCCGGCUGGUGCA 71
chr-7.trna69-Gly-GCC      UCCCGGCUGGUGCA 71
chr-8.trna82-Gly-GCC      UCCCGGCUGGUGCA 71
chr-8.trna87-Gly-GCC      UCCCGGCUGGUGCA 71
chr-8.trna88-Gly-GCC      UCCCGGCUGGUGCA 71
chr-9.trna38-Gly-GCC      UCCCGGCUGGUGCA 71
chr-9.trna75-Gly-GCC      UCCCGGCUGGUGCA 71
chr-10.trna101-Gly-GCC    UCCCGGCUGGUGCA 71
chr-12.trna90-Gly-GCC     UCCCGGCUGGUGCA 71
chr-10.trna102-Gly-GCC    UCCCGGCUGGUGCA 71
chr-12.trna50-Gly-GCC     UCCCGGCUGGUGCA 71
chr-11.trna76-Gly-GCC     UCCCGGCUGGUGCA 71
chr-6.trna52-Gly-GCC      UCCCGGCUGGUGCA 71
chr-4.trna81-Gly-GCC      UUCCGGCUGGUGCA 71
chr-9.trna32-Gly-GCC      UCCCUGCUGGUGCA 71
chr-7.trna68-Gly-GCC      UCCCGGCUAGUGCA 71
chr-4.trna43-Gly-GCC      UCCCGGCUGGUGCA 71
chr-8.trna89-Gly-GCC      UCCCGGCUGGUGCA 71
chr-7.trna79-Gly-GCC      UCCCGGCUGGUGCA 71
chr-10.trna72-Gly-GCC     UCCCGGCGGGUGCA 71
chr-4.trna41-Gly-GCC      UCCCGGCUGGUGCA 71
chr-7.trna67-Gly-GCC      UCCCGGCUGGUGCA 71
chr-4.trna55-Gly-GCC      UCCCGGCUGGUGCA 71
chr-3.trna34-Gly-GCC      UCCCGGCUGGUGCA 71
chr-13.trna87-Gly-TCC     UCCCGGCAAACACA 71
chr-13.trna90-Gly-TCC     UCCCGGCAAACGCA 72
chr-9.trna57-Gly-TCC      UCCCGGCAAACGCA 72
chr-1.trna19-Gly-TCC      UCCCGGCAAACGCA 72
chr-3.trna4-Gly-TCC       UCCCGGCAAACGCA 72
chr-11.trna93-Gly-TCC     UCCCGGCAAACGCA 72
chr-3.trna33-Gly-TCC      UCCCGGCAAACGCA 72
chr-3.trna61-Gly-TCC      UCCCGGCAAACGCA 72
chr-13.trna89-Gly-TCC     UCCCGGCAAACGCA 72
chr-13.trna88-Gly-TCC     UCCCGGCAAACGCA 72
chr-13.trna86-Gly-TCC     UCCCGGCAAACGCA 72
chr-13.trna82-Gly-TCC     UCCCGGCAAACGCA 72
chr-9.trna70-Gly-TCC      UCCCGGCAAACGCA 72
chr-10.trna35-Gly-TCC     UCCCGGCAAACGCA 72
chr-9.trna96-Gly-TCC      UCCCGGCAAACGCA 72
chr-13.trna85-Gly-TCC     UCCCGGCAAACGCA 72
chr-13.trna84-Gly-TCC     UCCUGGCGAACGCA 72
chr-1.trna87-Gly-TCC      UCCCGGCAAACGCA 72
chr-7.trna90-Gly-TCC      -UCCGGCAAACGCA 71
chr-13.trna83-Gly-TCC     UCCCGGCAAACGAA 71
chr-8.trna38-Gly-TCC      UCCCGGCAAAUGCA 72
chr-1.trna18-Gly-TCC      UCCCGGCAAACGCA 72
chr-8.trna4-Gly-TCC       UUCCGGCAAACGCA 72
chr-2.trna71-Gly-TCC      UCCCGACAAUUGCA 72
chr-2.trna11-Gly-GCC      UCCUGCUAUCCGCC 71
chr-4.trna73-Gly-GCC      UCCCACUAUCCGCC 71
chr-7.trna34-Gly-GCC      UCCCGCUAUCCGCC 71
chr-6.trna59-Gly-GCC      UCCUGCUAUCCGUC 71
chr-7.trna10-Gly-TCC      UCCCGCUAUCCGCC 71
chr-13.trna11-Gly-GCC     UCCCGCUAUCCGCC 71
chr-11.trna109-Gly-GCC    UCCCGCUAUCCGCC 71
chr-12.trna51-Gly-GCC     UCCUGCUAUUCGCC 71
chr-3.trna51-Gly-GCC      UCCCGCUAUCGCCC 72
chr-10.trna43-Gly-GCC     UCUUGCUAUUUGCC 71
chr-12.trna39-Gly-CCC     CCUUGGAGACAACA 70
                          .........70...
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