```
                          (((((((..((((.......)))).(((((.......)))))).....(((((.......
chr-2.trna15-Ala-TGC      GGGGAUGUAGCUCACAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGUACAGGAUUUGAUA 60
chr-9.trna23-Ala-TGC      GGGGAUGUAGCUCACAUGGUAGAGCACUCGCUUUGCAUGCGAGAGGUACGGGGUUUGAUA 60
chr-7.trna25-Ala-TGC      GGGGAUGUAGCUCACAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGUACGGGGUUCGAUA 60
chr-10.trna35-Ala-TGC     GGGGAUGUAGCUCACAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGUACGGGGUUCGAUA 60
chr-2.trna14-Ala-TGC      GGGGAUGUAGCUCACAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGUACGGGGUUCGAUA 60
chr-3.trna21-Ala-TGC      GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGUGAGAGGUACAGGGUUCGAUC 60
chr-9.trna17-Ala-TGC      GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGUGAGAGGCACGGGGUUCGAUC 60
chr-7.trna26-Ala-AGC      GGGGAUGUAGCUCACAUGGUAGAGUGCUCGCUUAGCAUGCAGGAGGUACGGGGUUCGAUA 60
chr-3.trna30-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-8.trna48-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-2.trna38-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUAUGGGGAUCGAUA 60
chr-2.trna7-Ala-AGC       GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-2.trna32-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-10.trna13-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-10.trna9-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-10.trna5-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-2.trna39-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-4.trna32-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-9.trna28-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-4.trna35-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-5.trna72-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-6.trna33-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-7.trna6-Ala-AGC       GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-9.trna14-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-7.trna8-Ala-AGC       GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-8.trna29-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-5.trna83-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCGCUUGCUUAGCAUGCAAGAGGUGCGGGGAUCGAUA 60
chr-4.trna39-Ala-TGC      GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUC 60
chr-10.trna74-Ala-TGC     GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUC 60
chr-6.trna57-Ala-TGC      GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGUACAGGGUUCGAUC 60
chr-6.trna58-Ala-TGC      GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGUACAGGGUUCGAUC 60
chr-8.trna36-Ala-TGC      GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGUACAGGGUUCGAUC 60
chr-11.trna1-Ala-TGC      GGGGAUGUAGCUCAAACGGUAGAGCGCUCGCUUUGCAUGCGAGAGGUACGGGGUUCGAUA 60
chr-5.trna4-Ala-TGC       GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGUACAGGGUUCGAUA 60
chr-5.trna5-Ala-TGC       GGGGGUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGUACGGGGUUCGAUA 60
chr-9.trna74-Ala-TGC      GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGUACAGGGUUCGAUA 60
chr-9.trna48-Ala-TGC      GGGAGUGUAGCUCAUAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-5.trna60-Ala-TGC      GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-11.trna14-Ala-CGC     GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-7.trna35-Ala-CGC      GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-3.trna38-Ala-CGC      GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-5.trna20-Ala-CGC      GGGGGUGUAGCUCAUAUGGUAGAGCGCUUGCUUCGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-11.trna61-Ala-CGC     AGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-5.trna61-Ala-CGC      GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCACUGGGUUCGAUU 60
chr-2.trna8-Ala-AGC       GGGGAUGUAGCUCAAAUGGUAGAGCGCUUGCUUAGCAUGUGAGAGGUACGGGGAUCAAUA 60
chr-2.trna3-Ala-AGC       GGGGUUGUAGCUCAAAUGGUAGAGUGCUUGCUUAGCAUGUGAGAGGUAUGGGGAUUGAUA 60
chr-9.trna15-Ala-TGC      GGGGAUGUAGCUCAAAUGGUAGAUCGCUCACUUUGCAUGCGAGAGGUACGGGGUUCGAUC 60
chr-4.trna31-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGCACUCGCUUAGCAUGCGAGAGG-ACGGGGAUUGAUA 59
chr-3.trna43-Ala-AGC      GGGGAUGUAGCUCAGAUAGUAGAGCGCUCGUUUAGCACCUGAGAGGUACAGGGAUCGAUA 60
chr-9.trna21-Ala-CGC      GGGGGUAUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGUGAGAGGCAUGGGGUUCAAUU 60
chr-11.trna52-Ala-AGC     GGGGAUGUAGCUCA----GUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 56
chr-2.trna9-Ala-AGC       AGGGAUGUAGCUCAGAUGGUAGAGCGCUCACUUAGCAUGCAAGAGGUACGGGAAUCGAUA 60
chr-2.trna6-Ala-AGC       GGAGAUGUAGCUCAGAUGGUAGAGCACUCGCUUAGCAUGUGAGAGGUAUGAGAUUUGAUA 60
chr-2.trna10-Ala-GGC      GGGGUUGUAGCUCAAAUGGUAGGGUACUCGCUUGGCAUGUGAGAGGUACAGUGAUUGAUA 60
chr-2.trna4-Ala-AGC       GGGAGAUGUAGCUCAGAUGGUGGAGUGCUUGCUUAGCAUGCAAGAGGUACAAGGAUCAAUA 60
                          .........10........20........30........40........50.........

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chr-2.trna15-Ala-TGC      CCCCGCAUCUCCA 73
chr-9.trna23-Ala-TGC      CCCCGCAUCUCCA 73
chr-7.trna25-Ala-TGC      CCCCGCAUCUCCA 73
chr-10.trna35-Ala-TGC     CCCCGCAUCUCCA 73
chr-2.trna14-Ala-TGC      CCCUGCAUCUCCA 73
chr-3.trna21-Ala-TGC      CCCUGCAUCUCCA 73
chr-9.trna17-Ala-TGC      CCCCGCAUCUCCA 73
chr-7.trna26-Ala-AGC      CCCCGCAUCUCCA 73
chr-3.trna30-Ala-AGC      CCCUGCAUCUCCA 73
chr-8.trna48-Ala-AGC      CCCUGCAUCUCCA 73
chr-2.trna38-Ala-AGC      CCCCGCAUUUCCA 73
chr-2.trna7-Ala-AGC       CCCCGCAUCUCCA 73
chr-2.trna32-Ala-AGC      CCCCGCAUCUCCA 73
chr-10.trna13-Ala-AGC     CCCCGCAUCUCCA 73
chr-10.trna9-Ala-AGC      CCCCGCAUCUCCA 73
chr-10.trna5-Ala-AGC      CCCCGCAUCUCCA 73
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chr-4.trna32-Ala-AGC      CCCCGCAUCUCCA 73
chr-9.trna28-Ala-AGC      CCCCGCAUCUCCA 73
chr-4.trna35-Ala-AGC      CCCCGCAUCUCCA 73
chr-5.trna72-Ala-AGC      CCCCGCAUCUCCA 73
chr-6.trna33-Ala-AGC      CCCCGCAUCUCCA 73
chr-7.trna6-Ala-AGC       CCCCGCAUCUCCA 73
chr-9.trna14-Ala-AGC      CCCCGCAUCUCCA 73
chr-7.trna8-Ala-AGC       CCCCGCAUCUCCA 73
chr-8.trna29-Ala-AGC      CCCCGCAUCUCCA 73
chr-5.trna83-Ala-AGC      CCCCGCAUCUCCA 73
chr-4.trna39-Ala-TGC      CCCCGCAUCUCCA 73
chr-10.trna74-Ala-TGC     CCCCGCAUCUCCA 73
chr-6.trna57-Ala-TGC      CCCUGCAUCUCCA 73
chr-6.trna58-Ala-TGC      CCCUGCAUCUCCA 73
chr-8.trna36-Ala-TGC      CCCUGCAUCUCCA 73
chr-11.trna1-Ala-TGC      CCCCGCAUCUCCA 73
chr-5.trna4-Ala-TGC       CCCUGCAUCUCCA 73
chr-5.trna5-Ala-TGC       CCCCGCAUCUCCA 73
chr-9.trna74-Ala-TGC      CCCUGCAUCUCCA 73
chr-9.trna48-Ala-TGC      CCCCGCACUUCCA 73
chr-5.trna60-Ala-TGC      CCCCGCACCUCCA 73
chr-11.trna14-Ala-CGC     CCCCGCACCUCCA 73
chr-7.trna35-Ala-CGC      CCCCGCACCUCCA 73
chr-3.trna38-Ala-CGC      CCCUGCACCUCCA 73
chr-5.trna20-Ala-CGC      CCCCGCAUCUCCA 73
chr-11.trna61-Ala-CGC     CCCCGCACCUCCA 73
chr-5.trna61-Ala-CGC      CCCCGCACCUCCA 73
chr-2.trna8-Ala-AGC       CCCCGCGUCUCCA 73
chr-2.trna3-Ala-AGC       CCCCACAUCUCCA 73
chr-9.trna15-Ala-TGC      CCCCGCAUCUCCA 73
chr-4.trna31-Ala-AGC      CCCUGCAUCUCCA 72
chr-3.trna43-Ala-AGC      CCCCGCAUCUCCA 73
chr-9.trna21-Ala-CGC      CCCUGCAUCUCCA 73
chr-11.trna52-Ala-AGC     CCCCGCAUCUCCA 69
chr-2.trna9-Ala-AGC       CCCUGCAUUUCCA 73
chr-2.trna6-Ala-AGC       CCUUGAAUCUCCA 73
chr-2.trna10-Ala-GGC      CCCUACAUCUCCA 73
chr-2.trna4-Ala-AGC       CAAUGUAUUUUCU 73
                          .........70..

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