```
                        (((((((..((((........)))).(((((.......)))))).....(((((.......
chr-1.trna36-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-3.trna11-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-11.trna15-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-10.trna14-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-3.trna40-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-3.trna41-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-9.trna16-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-3.trna52-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-4.trna1-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-11.trna31-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-5.trna18-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-8.trna12-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-6.trna15-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-7.trna23-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-12.trna11-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-6.trna29-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-6.trna17-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-6.trna28-Ala-AGC    GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-4.trna43-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-3.trna58-Ala-AGC    GGGGAUGUAGAUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-10.trna8-Ala-AGC    GGGGUUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGUUACGGGGAUCGAUA 60
chr-12.trna36-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAUA 60
chr-1.trna38-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUC 60
chr-11.trna32-Ala-TGC   GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUC 60
chr-2.trna38-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUC 60
chr-5.trna41-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUC 60
chr-12.trna8-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUC 60
chr-12.trna37-Ala-TGC   GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUC 60
chr-12.trna24-Ala-TGC   GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUC 60
chr-10.trna11-Ala-TGC   GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUC 60
chr-11.trna29-Ala-TGC   GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUC 60
chr-2.trna16-Ala-TGC    GGGGACGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUC 60
chr-4.trna14-Ala-TGC    GGGGAUGUAGCUCAAAUGUUGAGCGCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGAUC 60
chr-2.trna3-Ala-CGC     GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-3.trna10-Ala-CGC    GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-4.trna23-Ala-CGC    GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-4.trna29-Ala-CGC    GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-6.trna32-Ala-CGC    GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-7.trna29-Ala-CGC    GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-2.trna27-Ala-CGC    GGGGACGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-4.trna7-Ala-CGC     GGGGACGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-8.trna17-Ala-CGC    GGGGACGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-9.trna8-Ala-CGC     GGGGACGUAGCUCAUAUAGUAGAGCGCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGAUU 60
chr-8.trna13-Ala-AGC    -GGGAUGUAUCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUACGAGGAUCGAUA 59
chr-8.trna37-Ala-GGC    GCCCUUUUAACUCCG-UGGUAGAGUAAUGCCAUGGCAAGGCAUAAGUCAUCGGUUCAAAU 59
                        .........10........20........30........40........50.........

                        ..)))))))))))).
chr-1.trna36-Ala-AGC    --CCCCGCAUCUCCA 73
chr-3.trna11-Ala-AGC    --CCCCGCAUCUCCA 73
chr-11.trna15-Ala-AGC   --CCCCGCAUCUCCA 73
chr-10.trna14-Ala-AGC   --CCCCGCAUCUCCA 73
chr-3.trna40-Ala-AGC    --CCCCGCAUCUCCA 73
chr-3.trna41-Ala-AGC    --CCCCGCAUCUCCA 73
chr-9.trna16-Ala-AGC    --CCCCGCAUCUCCA 73
chr-3.trna52-Ala-AGC    --CCCCGCAUCUCCA 73
chr-4.trna1-Ala-AGC     --CCCCGCAUCUCCA 73
chr-11.trna31-Ala-AGC   --CCCCGCAUCUCCA 73
chr-5.trna18-Ala-AGC    --CCCCGCAUCUCCA 73
chr-8.trna12-Ala-AGC    --CCCCGCAUCUCCA 73
chr-6.trna15-Ala-AGC    --CCCCGCAUCUCCA 73
chr-7.trna23-Ala-AGC    --CCCCGCAUCUCCA 73
chr-12.trna11-Ala-AGC   --CCCCGCAUCUCCA 73
chr-6.trna29-Ala-AGC    --CCCCGCAUCUCCA 73
chr-6.trna17-Ala-AGC    --CCCCGCAUCUCCA 73
chr-6.trna28-Ala-AGC    --CCCCGCAUCUCCA 73
chr-4.trna43-Ala-AGC    --CCCCGCAGCUCCA 73
chr-3.trna58-Ala-AGC    --CCCCGCAUCUCCA 73
chr-10.trna8-Ala-AGC    --UCCCGCAUCUCCA 73
chr-12.trna36-Ala-AGC   CCCCCCGCAUCUCCA 75
chr-1.trna38-Ala-TGC    --CCCCGCAUCUCCA 73
chr-11.trna32-Ala-TGC   --CCCCGCAUCUCCA 73
chr-2.trna38-Ala-TGC    --CCCCGCAUCUCCA 73
chr-5.trna41-Ala-TGC    --CCCCGCAUCUCCA 73
chr-12.trna8-Ala-TGC    --CCCCGCAUCUCCA 73
chr-12.trna37-Ala-TGC   --CCCCGCAUCUCCA 73
chr-12.trna24-Ala-TGC   --CCCCGCAUCUCCA 73
chr-10.trna11-Ala-TGC   --CCCCGCAUCUCCA 73
chr-11.trna29-Ala-TGC   --CCCCGCAUCUCCA 73
chr-2.trna16-Ala-TGC    --CCCCGCAUCUCCA 73
chr-4.trna14-Ala-TGC    --CCCUGCAUCUCCA 73
chr-2.trna3-Ala-CGC     --CCCCGCACCUCCA 73
chr-3.trna10-Ala-CGC    --CCCCGCACCUCCA 73
chr-4.trna23-Ala-CGC    --CCCCGCACCUCCA 73
chr-4.trna29-Ala-CGC    --CCCCGCACCUCCA 73
chr-6.trna32-Ala-CGC    --CCCCGCACCUCCA 73
chr-7.trna29-Ala-CGC    --CCCCGCACCUCCA 73
chr-2.trna27-Ala-CGC    --CCCCGCGUCUCCA 73
chr-4.trna7-Ala-CGC     --CCCCGCGUCUCCA 73
chr-8.trna17-Ala-CGC    --CCCCGCGUCUCCA 73
chr-9.trna8-Ala-CGC     --UCCCGCGUCUCCA 73
chr-8.trna13-Ala-AGC    --CCCCGCAUCUCCA 72
chr-8.trna37-Ala-GGC    --CCGAUAAAGGGCU 72
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