```
                                                  ((((((((((((.....))))))((.(((((((....)).)))).).))))))).....
chr-2.trna163-Ile-TAT    GGUCUCGUAGCUCAGUUGGUUAGAGCAUUGGUCUUAUGAGCCGAAGGUUGCGGGUUCAAG 60
chr-10.trna5-Ile-TAT     GGUCUUGUAGCUCAGUUGGUUAGAGUGCUGGUCUUAUGAGCCGGAGGUCGCGAGUUCGAG 60
chr-11.trna163-Ile-TAT   GGUCCCGUAGCUCAGUUGGUUAGAGCAUUAAUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-1.trna51-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-11.trna152-Ile-TAT   GGUCCCGUAACUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGUGGGUUCGAG 60
chr-1.trna111-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-12.trna167-Ile-TAT   GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-15.trna62-Ile-TAT    GGUCUCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-11.trna160-Ile-TAT   GGUCUCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-1.trna5-Ile-TAT      GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-1.trna53-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-14.trna27-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-14.trna23-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-11.trna159-Ile-TAT   GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-14.trna22-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-11.trna151-Ile-TAT   GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-11.trna40-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-3.trna221-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-11.trna18-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-10.trna59-Ile-TAT    GGUCUCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-4.trna30-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-4.trna123-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-6.trna42-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-1.trna116-Ile-TAT    GGUCUCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-4.trna31-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-10.trna50-Ile-TAT    GGUCCUGUAGCUCAGUUGGUUAGAGCGCUGGUCUUAUGAGCCGGAGGUCGCGAGUUCGAG 60
chr-8.trna110-Ile-TAT    GGUCCUGUAGCUCAGUUGGUUAGAGCGCUGGUCUUAUGAGCCGGAGGUCGCGAGUUCGAG 60
chr-1.trna3-Ile-TAT      GGUCCCGUAGCUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-2.trna65-Ile-TAT     GGUCCCGUAACUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGAUUCGAG 60
chr-1.trna52-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUUGCGGGUUCGAG 60
chr-1.trna113-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUUGCGGGUUCGAG 60
chr-2.trna66-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGUGGGUUCGAG 60
chr-2.trna45-Ile-TAT     GGUCUUGUAACUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCCGAAAGUCGUGGGUUCGAG 60
chr-8.trna99-Ile-TAT     GGUCUUGUAACUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCCAAAAGUCGUGGGUUCGAG 60
chr-2.trna165-Ile-TAT    GGUCUUGUAACUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCCGAAAGUCGUGGGUUCGAG 60
chr-8.trna100-Ile-TAT    GGUCUUGUAACUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCCGAAAGUCGUGGGUUCGAG 60
chr-15.trna18-Ile-TAT    GGUCUUGUAACUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCCGAAAGUCGUGGGUUCGAG 60
chr-2.trna175-Ile-TAT    GGUCUUGUAACUUAGUUGGUUAGAGUGUUGGUCUUAUGAGCCGAAAGUCGUGGGUUCGAG 60
chr-2.trna142-Ile-TAT    GGUCUUGUAACUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCCGAAAGUCGUGGGUUCGAG 60
chr-8.trna102-Ile-TAT    GGUCUUGUAACUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCCGAAAGUCGUGGGUUCGAG 60
chr-2.trna182-Ile-TAT    GGUCUUGUAACUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCCGAAAGUCGUGGGUUCAAG 60
chr-8.trna108-Ile-TAT    GGUCCCGUAGCUUAGUUGGUUAGAGUGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-2.trna162-Ile-TAT    GGUCUCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGACGAAGGUCGCGGGUUCGAG 60
chr-2.trna161-Ile-TAT    GGUCUCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGAGUUCGAG 60
chr-5.trna154-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-4.trna124-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUUGAG 60
chr-12.trna77-Ile-TAT    GGUCUUGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUUGGU 60
chr-2.trna176-Ile-TAT    GGUCUUGUAACUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCUGAAAGUCGUGGGUUCGAG 60
chr-15.trna144-Ile-TAT   GGUCUUGUAAUUUAGUUGGUUAGAGUGUUGGUCUUAUGAGCCGAAAGUUGUGGGUUCAAA 60
chr-2.trna173-Ile-TAT    GGUCUUGUAACUCAGUUGGUUAGAGUGUUGGCUUUAUGAGCCGAAAGUCGUGGGUUCAAG 60
chr-11.trna107-Ile-TAT   GGUCACGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGU--CGGGUUCGAG 58
chr-6.trna29-Ile-TAT     AUCAGAGAGUGUCGCAGC--GAAAGCGUGGGUGGGCCUAUAACCCAUAGGUCCCAGGAUUGAA 58
chr-15.trna156-Ile-TAT   AUCAGAGAGUGGCGUAGU--GGAAGCGUGGGUGGGCCUAUAAACCCACAGGUCCCAGGAUCGAA 58
chr-15.trna131-Ile-TAT   AUCAGAGAGUGGCGCAGC--GGAAGCGUGGGUGGGCCUAUAAUCCACAGGUCCCAGGAUCUAA 58
chr-8.trna67-Ile-TAT     AUCAAAGUGGCGCAGC--GGAAGCGUGGGUGGGCCUAUAACCCACAGGUCCCAGGAUCGAA 58
chr-11.trna30-Ile-TAT    G----AGUGGCGUAGU--GGAAGCGUGGGUGGGCCUAUAACCUACAGGUCCCAGGAUUGAA 54
                         .........10........20........30........40........50.........

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chr-2.trna163-Ile-TAT    CCCCACCGGGAC-----CA 74
chr-10.trna5-Ile-TAT     CCUCGCCAGGAC-----CA 74
chr-11.trna163-Ile-TAT   CCCCGCCGGGAC-----CA 74
chr-1.trna51-Ile-TAT     CCCCGCUGGGAC-----CA 74
chr-11.trna152-Ile-TAT   CCCCGCCGGGAC-----CA 74
chr-1.trna111-Ile-TAT    CCCCGCUGGGAC-----CA 74
chr-12.trna167-Ile-TAT   CCCCGCUGGGAC-----CA 74
chr-15.trna62-Ile-TAT    CCCCGCUGGGAC-----CA 74
chr-11.trna160-Ile-TAT   CCCCGCUGGGAC-----CA 74
chr-1.trna5-Ile-TAT      CCCCGCCGGGAC-----CA 74
chr-1.trna53-Ile-TAT     CCCCGCCGGGAC-----CA 74
chr-14.trna27-Ile-TAT    CCCCGCCGGGAC-----CA 74
chr-14.trna23-Ile-TAT    CCCCGCCGGGAC-----CA 74
chr-11.trna159-Ile-TAT   CCCCGCCGGGAC-----CA 74
chr-14.trna22-Ile-TAT    CCCCGCCGGGAC-----CA 74
chr-11.trna151-Ile-TAT   CCCCGCCGGGAC-----CA 74
chr-11.trna40-Ile-TAT    CCCCGCCGGGAC-----CA 74
chr-3.trna221-Ile-TAT    CCCCGCCGGGAC-----CA 74
chr-11.trna18-Ile-TAT    CCCCGCCGGGAC-----CA 74
chr-10.trna59-Ile-TAT    CCCCGCCGAGAC-----CA 74
chr-4.trna30-Ile-TAT     CCCCGCCGGGAC-----CA 74
chr-4.trna123-Ile-TAT    CCCCGCCGGGAC-----CA 74
chr-6.trna42-Ile-TAT     CCCCGCCGGGAC-----CA 74
chr-1.trna116-Ile-TAT    CCCCGCCGGGAC-----CA 74
chr-4.trna31-Ile-TAT     CUCCGCCGGGAC-----CA 74
chr-10.trna50-Ile-TAT    CCUCGCCAGGAC-----CA 74
chr-8.trna110-Ile-TAT    CCUCGCCAGGAC-----CA 74
chr-1.trna3-Ile-TAT      CCCCGCCGGGAC-----CA 74
chr-2.trna65-Ile-TAT     CCCCGCCGGGAC-----CA 74
chr-1.trna52-Ile-TAT     CCCCGCCGGGAC-----CA 74
chr-1.trna113-Ile-TAT    CCCCGCCGGGAC-----CA 74
chr-2.trna66-Ile-TAT     CCCCGCCGGGAC-----CA 74
chr-2.trna45-Ile-TAT     CCCCACCAAGAC-----CA 74
chr-8.trna99-Ile-TAT     CCCCACCAAGAC-----CA 74
chr-2.trna165-Ile-TAT    CCCCACCAAGAC-----CA 74
chr-8.trna100-Ile-TAT    CCCCACCAAGAC-----CA 74
chr-15.trna18-Ile-TAT    CCCCACCAAGAC-----CA 74
chr-2.trna175-Ile-TAT    CCCCACCAAGAC-----CA 74
chr-2.trna142-Ile-TAT    CCCUACCAAGAC-----CA 74
chr-8.trna102-Ile-TAT    GCCCACCAAGAC-----CA 74
chr-2.trna182-Ile-TAT    CCCUACCAAGAC-----CA 74
chr-8.trna108-Ile-TAT    CCCCGCCGAGAC-----CA 74
chr-2.trna162-Ile-TAT    CCCCGCCGGGAC-----CA 74
chr-2.trna161-Ile-TAT    CCCCGCCGGGAC-----CA 74
chr-5.trna154-Ile-TAT    CCCCGCCGGGAC-----CA 74
chr-4.trna124-Ile-TAT    CCCCGCCAGGAC-----CA 74
chr-12.trna77-Ile-TAT    CCCAGCUAGGAC-----CA 74
chr-2.trna176-Ile-TAT    CCCCACCAAGAC-----CA 74
chr-15.trna144-Ile-TAT   CCCCACCAAGAC-----CA 74
chr-2.trna173-Ile-TAT    C-UCACCAAGAC-----CA 73
chr-11.trna107-Ile-TAT   CCCCGCCGGGAC-----CA 72
chr-6.trna29-Ile-TAT     ACCUGGCUCUGA-----UA 72
chr-15.trna156-Ile-TAT   ACUUGGCUCUGA-----UA 72
chr-15.trna131-Ile-TAT   ACCUGGCUCUGA-----UA 72
chr-8.trna67-Ile-TAT     ACCUGGCUUUGA-----UA 72
chr-11.trna30-Ile-TAT    ACCUGGCUGAAAAGUUGCU 73
                         .........70........
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