```
                                 ((((((((((((.....))))))((.(.(((((.......)))))).).))(((((((...)
chr-9.trna93-Ile-AAT     GACCUAUUAGCUCAGUUAGUUAGAGCGUCGUGCUAAUAACGUGAAGGUCGCAGGUUCGAG 60
chr-2.trna27-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-3.trna106-Ile-AAT    GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCACAGGUUCGAG 60
chr-2.trna160-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCAUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-10.trna2-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCAAG 60
chr-10.trna91-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCAAG 60
chr-2.trna158-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGUGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-10.trna94-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGUGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna30-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna176-Ile-AAT    GGCCUAUUAACUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-4.trna71-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna132-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna134-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna140-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna144-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna163-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna165-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna166-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna167-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna168-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-7.trna124-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-7.trna110-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-7.trna68-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-7.trna45-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna169-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna170-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-5.trna81-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna172-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna173-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-3.trna152-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna175-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna177-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna179-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna203-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-8.trna113-Ile-AAT    GGCCCAUUAGCUCAGUUGGUUAGAGCGUGGUGCUAAUAACGCCAAGGUCGCAGGUUCGAG 60
chr-3.trna117-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna271-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAA 60
chr-3.trna105-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCACAGGUUCGAG 60
chr-2.trna159-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-6.trna3-Ile-AAT      GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCAUAGGUUCGAG 60
chr-2.trna135-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAUCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-4.trna234-Ile-AAT    GGCCUAUUGACUCAGCUGGUUAGACCGUCGUGCUAAUAACGUGAAGGUCGCAGGUUCGAG 60
chr-2.trna157-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCACAGGUUCGAG 60
chr-2.trna164-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUUGCAGGUUCGAG 60
chr-2.trna155-Ile-AAT    GGCCUAUUUGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna141-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUAGCAGGUUCGAG 60
chr-2.trna149-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUAGCAGGUUCGAG 60
chr-2.trna145-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCAUCGUGCUAAUAACGCGAAGGUAGCAGGUUCGAG 60
chr-2.trna154-Ile-AAT    GGCCUAUUAGUUCAGUUGGUUAGAGCGUCGUGCUAAUAACACGAAGGUCACAGGUUCGAG 60
chr-2.trna153-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCAAAGGUCGCAGGUUCGAG 60
chr-2.trna174-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGGUUCGAG 60
chr-3.trna150-Ile-AAT    GGCCUAUUAGCUCAGCUGGUUAGAGCGUGGUGCUAAUAACGCCAAGGUCGCAGGUUCGAG 60
chr-2.trna162-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGAGAAGGUCGCAGGUUCGAG 60
chr-2.trna148-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCAGCUUCGAG 60
chr-2.trna136-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCACGUUCGAG 60
chr-2.trna147-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCUCACGUUCGAG 60
chr-2.trna151-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCUCAGGUUCGAG 60
chr-2.trna161-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUCGAGCGUCGUGCUAAUAAUGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna171-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUCGAGCGUCGUGCUAAUAAUGCGAAGGUCGCAGGUUCGAG 60
chr-2.trna178-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGUGUCUUGCUAAUAACGCGAAGGUUGCAGGUUCAAG 60
chr-2.trna137-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUUCUAAUAACGCAAAGGUCGCAGGUUCGAG 60
chr-2.trna152-Ile-AAT    GGCCUAUUUGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCAAAGGUCGCAGGUUCGAG 60
chr-2.trna138-Ile-AAT    AGCCUAUUAGCUCCGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCACAGGUUCAAG 60
chr-2.trna156-Ile-AAT    GGCCUAUUAGCUCAAUUAGUUAGAGCGUCGUGCUAAUAACGCGAAGGUCGCUGGUUCGAG 60
chr-8.trna77-Ile-TAT     GGUCCUGUAGUUCAGUUGGUCAGAACGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCAAG 60
chr-3.trna22-Ile-TAT     GGUCCCGUAGCUCAGUCGGUCAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCAAG 60
chr-8.trna185-Ile-TAT    GGUCCCGUAGCUCAGUUGGUCAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCAAG 60
chr-8.trna43-Ile-TAT     GCUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-6.trna63-Ile-TAT     GCUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUCGCGGGUUCGAG 60
chr-2.trna142-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAAUGCGAAGGUUGCAGGUUCGAG 60
chr-2.trna146-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAAUGCGAAGGUUGCAGGUUCGAG 60
chr-2.trna150-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAUUGUCGUGCUAAUAAUGCGAAGGUUGCAGGUUCGAG 60
chr-2.trna139-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAAUGCGAAGGUCUCAGGUUCGAG 60
chr-2.trna143-Ile-AAT    GGCCUAUUAGCUCAGUUGGUUAGAGCAUCGUGCUAAUAAUGCGAAGGUCUCAGGUUCGAG 60
chr-10.trna85-Ile-AAT    GGCU-AUUAGCUCAGUUAGUUAGAGCGUUGUGCUAAUAACACGAAGGUCACAGGAUCAAG 59
chr-8.trna154-Ile-AAT    GGCU-AUUAGCUCAGUUAGUUAGAGCGUUGUGCUAAUAACACGAAGGUCACAGGAUCAAG 59
chr-10.trna34-Ile-TAT    ACUUGACUAGCUUAGUCAGU-AGAGCACAAGGCUAUAUCCUUGUGGUCUUGGGUUCAAA 59
                         .........10........20........30........40........50.........
                         ))))))))))))).
chr-9.trna93-Ile-AAT     ACUUGCAUGGGCCA 74
chr-2.trna27-Ile-AAT     ACCUGCAUGGGCCA 74
chr-3.trna106-Ile-AAT    ACCUGUAUGGGCCA 74
chr-2.trna160-Ile-AAT    ACCUGCAUGGGCCA 74
chr-10.trna2-Ile-AAT     ACCUGCAUGGGCCA 74
chr-10.trna91-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna158-Ile-AAT    ACCUGCAUGGGCCA 74
chr-10.trna94-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna30-Ile-AAT     ACCUGCAUGGGCCA 74
chr-2.trna176-Ile-AAT    ACCUGCAUGGGCCA 74
chr-4.trna71-Ile-AAT     ACCUGCAUAGGCCA 74
chr-2.trna132-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna134-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna140-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna144-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna163-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna165-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna166-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna167-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna168-Ile-AAT    ACCUGCAUGGGCCA 74
chr-7.trna124-Ile-AAT    ACCUGCAUGGGCCA 74
chr-7.trna110-Ile-AAT    ACCUGCAUGGGCCA 74
chr-7.trna68-Ile-AAT     ACCUGCAUGGGCCA 74
chr-7.trna45-Ile-AAT     ACCUGCAUGGGCCA 74
chr-2.trna169-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna170-Ile-AAT    ACCUGCAUGGGCCA 74
chr-5.trna81-Ile-AAT     ACCUGCAUGGGCCA 74
chr-2.trna172-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna173-Ile-AAT    ACCUGCAUGGGCCA 74
chr-3.trna152-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna175-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna177-Ile-AAT    AUCUGCAUGGGCCA 74
chr-2.trna179-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna203-Ile-AAT    ACCUGCAUGGGCCA 74
chr-8.trna113-Ile-AAT    ACCUGCAUGGGCCA 74
chr-3.trna117-Ile-AAT    ACCUGCAUGGGUCA 74
chr-2.trna271-Ile-AAT    ACCUGCAUGGGCCA 74
chr-3.trna105-Ile-AAT    ACCUGUAUGGGCCA 74
chr-2.trna159-Ile-AAT    GCCUGCAUGGGCCA 74
chr-6.trna3-Ile-AAT      ACCUGUAUGGGCCA 74
chr-2.trna135-Ile-AAT    ACCUGCAUGGGCCA 74
chr-4.trna234-Ile-AAT    ACUUGCAUGGGCCA 74
chr-2.trna157-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna164-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna155-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna141-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna149-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna145-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna154-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna153-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna174-Ile-AAT    ACCUGCAUGGUCCA 74
chr-3.trna150-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna162-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna148-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna136-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna147-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna151-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna161-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna171-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna178-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna137-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna152-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna138-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna156-Ile-AAT    ACCUGCAUGGGCCA 74
chr-8.trna77-Ile-TAT     CCCCGCCAGGACCA 74
chr-3.trna22-Ile-TAT     CCCCGCCGGGACCA 74
chr-8.trna185-Ile-TAT    CCCCGCCGGGACCA 74
chr-8.trna43-Ile-TAT     CCCCGCCGGGAGCA 74
chr-6.trna63-Ile-TAT     CCCCGCCGGGAGCA 74
chr-2.trna142-Ile-AAT    ACCUGCAUCAGCCA 74
chr-2.trna146-Ile-AAT    ACCUGCAUCGGCCA 74
chr-2.trna150-Ile-AAT    ACCUGCAUCGGCCA 74
chr-2.trna139-Ile-AAT    ACCUGCAUGGGCCA 74
chr-2.trna143-Ile-AAT    ACCUGCAUGGGCCA 74
chr-10.trna85-Ile-AAT    ACCUGCAUGGGUCA 73
chr-8.trna154-Ile-AAT    ACCUGCAUGGGCCA 73
chr-10.trna34-Ile-TAT    UCCCAUGAUGGGUG 73
                         .........70...
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