```
                                 (((((((..(((.....)))...(((((((((.........)))))).........)))))).
chr-1.trna21-Leu-AAG     AACCUAUUAGCCCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GGUGUAG 49
chr-9.trna7-Leu-AAG      AACCUAUUAGCCCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GGUGUAG 49
chr-1.trna30-Leu-AAG     AACCUAUUAGCCCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-5.trna107-Leu-AAG    AACCUAUUAGCCCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-2.trna77-Leu-AAG     AGCCUAUUAGCCCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-5.trna43-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-9.trna99-Leu-AAG     AACCUAUUAGCCCAAUUGGCAAAACAUUGUGU---AAG---ACACAAU-----GAUGUAG 49
chr-3.trna56-Leu-AAG     AACCUAUUAGCCCAAUUGGCAAAACGUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-1.trna62-Leu-AAG     AACCUAUUAGCCCAAUUGGCAAAACAUUGUGU---AAG---ACACAAU-----GAUGUAG 49
chr-7.trna52-Leu-AAG     AACCUAUUAGCCCAAUUGGCAAAACAUUGUGC---AAG---ACACAAU-----GAUGUAG 49
chr-8.trna137-Leu-AAG    AACCUAUUAGCCCAAUUGGCAAAACAUUGAGU---AAG---ACACAAU-----GAUGUAG 49
chr-8.trna139-Leu-AAG    AACCUAUUAGCCCAAUUGGCAAAACAUUGAGU---AAG---ACACAAU-----GAUGUAG 49
chr-2.trna75-Leu-AAG     AACCUAUUAGCCCAAUUGGCAAAACAUUGAGU---AAG---ACACAAC-----GAUGUAG 49
chr-1.trna44-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-1.trna46-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-9.trna56-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-6.trna83-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-6.trna78-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-6.trna48-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-6.trna28-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-6.trna14-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-6.trna12-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-6.trna7-Leu-AAG      AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-8.trna70-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-9.trna59-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-9.trna69-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-5.trna72-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-5.trna54-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-5.trna45-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-7.trna53-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-4.trna71-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-9.trna81-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-4.trna7-Leu-AAG      AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-3.trna81-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-3.trna75-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-3.trna72-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-3.trna68-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-3.trna58-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-6.trna88-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-3.trna55-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-3.trna41-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-3.trna25-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-3.trna6-Leu-AAG      AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-7.trna41-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-7.trna27-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-2.trna58-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-2.trna57-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-2.trna23-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-9.trna91-Leu-AAG     AACCUAUUAGCUCAAUUGGCAAAACAUUGUGU---AAG---ACACAAC-----GAUGUAG 49
chr-1.trna23-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCCGAAAGGGCGUGG 60
chr-1.trna89-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCCGAAAGGGCGUGG 60
chr-2.trna21-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCCGAAAGGGCGUGG 60
chr-4.trna18-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCCGAAAGGGCGUGG 60
chr-5.trna78-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCCGAAAGGGCGUGG 60
chr-5.trna79-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCCGAAAGGGCGUGG 60
chr-6.trna86-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCCGAAAGGGCGUGG 60
chr-7.trna36-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCCGAAAGGGCGUGG 60
chr-9.trna10-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCCGAAAGGGCGUGG 60
chr-8.trna71-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCCGAAAGGGCGUGG 60
                         .........10........20........30........40........50.........
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                         (.......))).)).)))))).
chr-1.trna21-Leu-AAG     GUUCGAAUCCUACAUAGGUUU 70
chr-9.trna7-Leu-AAG      GUUCGAAUCCUACAUAGGUUU 70
chr-1.trna30-Leu-AAG     GUUCGAAUCCUACAUAGGUUU 70
chr-5.trna107-Leu-AAG    GUUCGAAUCCUACAUAGGUUU 70
chr-2.trna77-Leu-AAG     GUUCGAAUCCUACAUAGGUUU 70
chr-5.trna43-Leu-AAG     GUUCGAAUCCUACAUAGGUUU 70
chr-9.trna99-Leu-AAG     GUUCGAAUCCUACAUAGGUUU 70
chr-3.trna56-Leu-AAG     GUUCGAAUCCUACAUAGGUUU 70
chr-1.trna62-Leu-AAG     GUUCAAAUCCUACAUAGGUUU 70
chr-7.trna52-Leu-AAG     GUUCGAAUCCUACAUAGGUUU 70
chr-8.trna137-Leu-AAG    GUUCGAAUCCUACAUAGGUUU 70
chr-8.trna139-Leu-AAG    GUUCGAAUCCUACAUAGGUUU 70
chr-2.trna75-Leu-AAG     GUUCGAAUCCUACAUAGGUUU 70
chr-1.trna44-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-1.trna46-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-9.trna56-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-6.trna83-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-6.trna78-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-6.trna48-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-6.trna28-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-6.trna14-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-6.trna12-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-6.trna7-Leu-AAG      GUUCGAAUCCUUCAUAGGUUU 70
chr-8.trna70-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-9.trna59-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-9.trna69-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-5.trna72-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-5.trna54-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-5.trna45-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-7.trna53-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-4.trna71-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-9.trna81-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-4.trna7-Leu-AAG      GUUCGAAUCCUUCAUAGGUUU 70
chr-3.trna81-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-3.trna75-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-3.trna72-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-3.trna68-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-3.trna58-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-6.trna88-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-3.trna55-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-3.trna41-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-3.trna25-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-3.trna6-Leu-AAG      GUUCGAAUCCUUCAUAGGUUU 70
chr-7.trna41-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-7.trna27-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-2.trna58-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-2.trna57-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-2.trna23-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-9.trna91-Leu-AAG     GUUCGAAUCCUUCAUAGGUUU 70
chr-1.trna23-Leu-AAG     GUUCAAAUCCCACUCUCAACA 81
chr-1.trna89-Leu-AAG     GUUCAAAUCCCACUCUCAACA 81
chr-2.trna21-Leu-AAG     GUUCAAAUCCCACUCUCAACA 81
chr-4.trna18-Leu-AAG     GUUCAAAUCCCACUCUCAACA 81
chr-5.trna78-Leu-AAG     GUUCAAAUCCCACUCUCAACA 81
chr-5.trna79-Leu-AAG     GUUCAAAUCCCACUCUCAACA 81
chr-6.trna86-Leu-AAG     GUUCAAAUCCCACUCUCAACA 81
chr-7.trna36-Leu-AAG     GUUCAAAUCCCACUCUCAACA 81
chr-9.trna10-Leu-AAG     GUUCAAAUCCCACUCUCAACA 81
chr-8.trna71-Leu-AAG     GUUCAAAUCCCACUCUCAACA 81
                         .........70........80
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