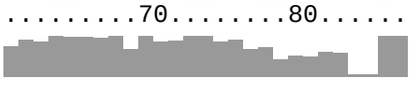
```
                                 (((((((..(((.((.....)).)).)))(((((.......)))))))(........)).. 
chr-2c.trna46-Leu-AAG            GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-8c.trna24-Leu-AAG            GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-11c.trna21-Leu-AAG           GUGGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-2e.trna50-Leu-AAG            GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-8e.trna28-Leu-AAG            GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-8c.trna25-Leu-AAG            GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-6c.trna4-Leu-AAG             GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-6e.trna13-Leu-AAG            GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-6c.trna46-Leu-AAG            GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-6c.trna47-Leu-AAG            GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-6c.trna48-Leu-AAG            GGUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-9c.trna1-Leu-CAG             GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-9e.trna1-Leu-CAG             GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-7c.trna2-Leu-CAG             GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-4c.trna16-Leu-CAG            GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-4c.trna38-Leu-CAG            GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-4e.trna20-Leu-CAG            GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-4e.trna47-Leu-CAG            GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-11e.trna22-Leu-AAG           GUAGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-2c.trna70-Leu-TAG            GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GGAAGGGC 55
chr-6e.trna43-Leu-TAG            GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GGAAGGGC 55
chr-2e.trna1-Leu-TAG             GACGGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GGAAGGGC 55
chr-6c.trna52-Leu-TAG            GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-6e.trna3-Leu-TAG             GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-4e.trna31-Leu-TAG            GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-6c.trna1-Leu-TAG             GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-4c.trna26-Leu-TAG            GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-2c.trna1-Leu-TAG             GACGGUUUGGCCGAGUGGUCUAAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 56
chr-1c.trna72-Leu-CAA            GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-2c.trna8-Leu-CAA             GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-2e.trna7-Leu-CAA             GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-2e.trna27-Leu-CAA            GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-2e.trna73-Leu-CAA            GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-7c.trna10-Leu-CAA            GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-7c.trna11-Leu-CAA            GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-7e.trna9-Leu-CAA             GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-10c.trna1-Leu-CAA            GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-10e.trna3-Leu-CAA            GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-8e.trna14-Leu-CAA            GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-8c.trna12-Leu-CAA            GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-7e.trna8-Leu-CAA             GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-2c.trna62-Leu-CAA            GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-1e.trna21-Leu-TAA            GGUGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-11e.trna19-Leu-TAA           GCUGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-11c.trna18-Leu-TAA           GCUGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-6e.trna45-Leu-TAA            GCUGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-8e.trna20-Leu-TAA            GCUGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-11c.trna17-Leu-TAA           GCUGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-4c.trna27-Leu-CAA            GCCUUGGUGGUGAAA-UGGU-AGACACACGAGACUCAAAAUAUCGUGCU--AAAGAGCGU 56
chr-4e.trna32-Leu-CAA            GCCUUGGUGGUGAAA-UGGU-AGACACACGAGACUCAAAAUCUCGUGCU--AAAGAGCGU 56
chr-10c.trna24-Leu-CAA           GCCUUGGUGGUGAAA-UGGU-AGACACGCGAGACUCAAAAUCUCGUGCU--AAAGAGCGU 56
chr-9c.trna9-Leu-CAA             GCCUUGGUGGUGAAA-UGGU-AGACACGCGAGACUCAAAAUCUCGUGCU--AAAGAGCAU 56
chr-5e.trna2-Leu-CAA             GCCUUGGUGGUGAAA-UGGU-AAACACGCGAGAUUCAAAAUCUCGUGCU--AAAGAGCGU 56
chr-4e.trna30-Leu-CAA            GCGUCUAUGGCUGAA-UGGUUAAA-GCGCCCAACUCAAAAUUGGC---------GAAUUC 49
chr-4c.trna9-Leu-CAA             GCAUCCACAACUGAA-UGGUUAAA-GCGCCCAACUCAAAAUUGGC---------GAAUUU 49
                                 .........10........20........30........40........50.........

                                 (((((.......)))))))))))..).
chr-2c.trna46-Leu-AAG            GUGGGUUCAAAUCCCACUCUCAA--CA 81
chr-8c.trna24-Leu-AAG            GUGGGUUCAAAUCCCACUCUCAA--CA 81
chr-11c.trna21-Leu-AAG           GUGGGUUCAAAUCCCACUCUCCA--CA 81
chr-2e.trna50-Leu-AAG            GUGGGUUCAAAUCCCACUCUCAA--CA 81
chr-8e.trna28-Leu-AAG            GUGGGUUCAAAUCCCACUCUCAA--CA 81
chr-8c.trna25-Leu-AAG            GUGGGUUCAAAUCCCACUCUCAA--CA 81
chr-6c.trna4-Leu-AAG             GUGGGUUCAAAUCCCACUCUCAA--CA 81
chr-6e.trna13-Leu-AAG            GUGGGUUCAAAUCCCACUCUCAA--CA 81
chr-6c.trna46-Leu-AAG            GUGGGUUCAAAUCCCACUCUCAA--CA 81
chr-6c.trna47-Leu-AAG            GUGGGUUCAAAUCCCACUCUCAA--CA 81
chr-6c.trna48-Leu-AAG            GUGGGUUCAAAUCCCACUCUCAA--CA 81
chr-9c.trna1-Leu-CAG             AUGGGUUCGAAUCCCAUUCUUGA--CA 81
chr-9e.trna1-Leu-CAG             AUGGGUUCGAAUCCCAUUCUUGA--CA 81
chr-7c.trna2-Leu-CAG             AUGGGUUCGAAUCCCAUUCUUGA--CA 81
chr-4c.trna16-Leu-CAG            AUGGGUUCGAAUCCCAUUCUUGA--CA 81
chr-4c.trna38-Leu-CAG            AUGGGUUCGAAUCCCAUUCUUGA--CA 81
chr-4e.trna20-Leu-CAG            AUGGGUUCGAAUCCCAUUCUUGA--CA 81
chr-4e.trna47-Leu-CAG            AUGGGUUCGAAUCCCAUUCUUGA--CA 81
chr-11e.trna22-Leu-AAG           GUGGGUUCAAAUCCCACUCUCCA--CA 81
chr-2c.trna70-Leu-TAG            GUGGGUUCAAAUCCCACAGCUGU--CA 80
chr-6e.trna43-Leu-TAG            GUGGGUUCAAAUCCCACAGCUGU--CA 80
chr-2e.trna1-Leu-TAG             GUGGGUUCAAAUCCCACAGCCGU--CA 80
chr-6c.trna52-Leu-TAG            GUGGGUUCAAAUCCCACAGCUGU--CA 80
chr-6e.trna3-Leu-TAG             GUGGGUUCAAAUCCCACAGCUGU--CA 80
chr-4e.trna31-Leu-TAG            GUGGGUUCAAAUCCCACAGCUGU--CA 80
chr-6c.trna1-Leu-TAG             GUGGGUUCAAAUCCCACAGCUGU--CA 80
chr-4c.trna26-Leu-TAG            GUGGGUUCAAAUCCCACAGCUGU--CA 80
chr-2c.trna1-Leu-TAG             GUGG---CAAAUCCCACAGCCGU--CA 78
chr-1c.trna72-Leu-CAA            GUGGGUUCAAAUCCCACUUCUGA--CA 84
chr-2c.trna8-Leu-CAA             GUGGGUUCAAAUCCCACUUCUGA--CA 84
chr-2e.trna7-Leu-CAA             GUGGGUUCAAAUCCCACUUCUGA--CA 84
chr-2e.trna27-Leu-CAA            GUGGGUUCAAAUCCCACUUCUGA--CA 84
chr-2e.trna73-Leu-CAA            GUGGGUUCAAAUCCCACUUCUGA--CA 84
chr-7c.trna10-Leu-CAA            GUGGGUUCAAAUCCCACUUCUGA--CA 84
chr-7c.trna11-Leu-CAA            GUGGGUUCAAAUCCCACUUCUGA--CA 84
chr-7e.trna9-Leu-CAA             GUGGGUUCAAAUCCCACUUCUGA--CA 84
chr-10c.trna1-Leu-CAA            GUGGGUUCAAAUCCCACUUCUGA--CA 84
chr-10e.trna3-Leu-CAA            GUGGGUUCAAAUCCCACUUCUGA--CA 84
chr-8e.trna14-Leu-CAA            GUGGGUUCAAAUCCCACUUCUGA--CA 84
chr-8c.trna12-Leu-CAA            GUGGGUUCAAAUCCCACUUCUGA--CA 84
chr-7e.trna8-Leu-CAA             GUGGGUGCAAAUCCCACUUCUGA--CA 84
chr-2c.trna62-Leu-CAA            AUGGGUUCAAAUCCCACUUCUGA--CA 84
chr-1e.trna21-Leu-TAA            GUGGGUUCGAACCCCACAGCCAC--CA 83
chr-11e.trna19-Leu-TAA           AUGGGUUCGAACCCCAUAGCCAG--CA 83
chr-11c.trna18-Leu-TAA           AUGGGUUCGAACCCCAUAGCCAG--CA 83
chr-6e.trna45-Leu-TAA            AUGGGUUCGAACCCCAUAGCCAG--CA 83
chr-8e.trna20-Leu-TAA            AUGGGUUCGAACCCCAUAGCCAG--CA 83
chr-11c.trna17-Leu-TAA           AUGGGUUCGAACCCCAUAGCCAG--CA 83
chr-4c.trna27-Leu-CAA            GGAGGUUCGAGUCCUCUUCAGGGAUCA 83
chr-4e.trna32-Leu-CAA            GGAGGUUCGAGUCCUCUUCAGGGAUCA 83
chr-10c.trna24-Leu-CAA           GGAGGUUCGAGUCCUCUUCAGAG--CA 81
chr-9c.trna9-Leu-CAA             GGAGGUUCGAGUCCUCUUCAGGG--CA 81
chr-5e.trna2-Leu-CAA             GGAGGUUCAAGUCCUCUUCAGGG--CA 81
chr-4e.trna30-Leu-CAA            GUAGGUUCAAUUCCUACUGUGUG--CA 74
chr-4c.trna9-Leu-CAA             GUAGGUUCAAUUCCUACUGAAUG--CA 74
                                 .........70........80......
                                 
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