

SUPPLEMENTARY INFORMATION

Evolutionary Strategy to Enhance an RNA Design Tool Performance

Álvaro Rubio Largo, Laura Escobar-Encinas, Nuria Lozano-García,
and José Maria Granado Criado

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1 Eterna100 Solution Sequences found

Lists containing the **distinct** RNA sequences found in the ten independent runs of every Eterna100 structure (consequently, there may be fewer sequences than executions that find a solution), for each Eterna100-VxTx category. If a list is empty, that structure was not solved in that category.

1.1 V1T99

> 1 Simple hairpin

$$((((((\dots))))))$$

CCCCAAAAAGGGGG

CCGCGAAAAACGCGG

CGCGGAAAAAACCGCG

CGGGCAAAAAGCCCG

CGGGGAAAAAACCCCG

GCCCAAAGGGGC

GCCGCAAAAAGCGGC

GCCGGAAAAAACCGGC

GCGGGAAAAAACCCGC

GGGCGAAAAACGCCC

> 2 Arabidopsis Thaliana 6 RNA - Difficulty Level 0

[illegible]

CCGCCGAAAAGGGAAAAAAAACCCGCCCGCGAACCCGCCGCCGCCCGCGAAAGCCC

GAAAAAACGGGCACGCGGGAGCGCGGCGGCGGGGAACGCGGGGGCAACCGGCGG

CCGGCGGAAAAGGCAAAAAAAAAAAGCCGCGGGGCGAAGCCCCCGCGCCCGCGGAAACGGG

CAAAAAGCCCGACCGCGGAGGCGCGGGGGGGCAACGCCCCGCAACCGCCGG

CGCGCGCAAAACGCAAAAAAAAAAAGCGGGCGGGGCAAGCCGCCGGGCCCGGGCCCAAGGGC

GAAAAAACGCCAGGGCCCAGGGGCCCGGCGGCAAGCCCCGCCAAGCGCGCG

CGGCCCCAAAAGCGAAAAAAAACGCCGGGGCCCAAGGGCGCGCGCCCCGCCCGAAACCGC

GAAAAAACGCGGACGGGGCAGGGGCGCGCGCCCAAGGGCCCCGAAGGGGCCG

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GAAAAAAGCGCCAGGGCGCACCGCCCGGCGGCGCAAGCGCCGGGAACGGGGCCG

CGGGCGCAAAGGGAAAAAAAACCCGGGGGGCCAAACGGCGGCGGCGCGCCGGCGAAACCGC

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GAAAAAACGCCACCGCGCACCCGGGCGGCCCGAAGCGGGCCCAACGCGCGC

GGCGCCCAAACCGAAAAAAAACGGGCCCGGCGAACCGCCGCGCGGCGCCGCGAAACGGC

CAAAAAGGCCGACGCGGCAGCCGCGGGCGGAACGCCGGGCAAGGGCGCC

> 3 Prion Pseudoknot - Difficulty Level 0

$$(((((((.(((((...)))))))).)).))\dots\dots\dots$$

> 4 Human Integrated Adenovirus - Difficulty Level 0

CCCCCCCCGCCCCACGGCGCAAAAAAAAAAACCCCGGGCCCGGAAAAAGGCGCGGGAAAAAGCG
GCCGCGCCGAAAAAAACCGGCGGCAAAACGCCCCGCAAAAGCCCCGAAAAGGCCCAAAGC
GGGGAAAAAAACCCCGCGGGGAAAAAAAAAAAAAGCGCCGAGGGGAAAAGCGGGGAAAGGGGAA

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GGCGCGGCCGAAAAAAAAACGGCCGCGCCAAAAGCGCCGCCAAAACGCCGGA AAAAGGCCCAAACG
CCGGA AAAAAAACCGGCGCGGCAAAAAAAAAAAAAACGCCCCAGGCGAAAAAGCGGGCAAAAGCGGAAA
CCGGCCGCGCGCGGACGCGGCAAAAAAAAAAAAAACGCGGGGGCCGGA AAAAGCGGGGCCAAAAGCC
CGGCGCGCCGAAAAAAAACGGCGCGCCGAAAAGGCGGGCCAAAAGCCCCGAAAAGCCCCAAAACG
GCCGAAAAAAACGGCCGCGCGAAAAAAA AAAAAAGCCGCGACCGCAAAAAGCGCGGAAACCGGAAA
CGGGCGGGCCGCGCACGGCGGAAAAAAA AAAAAAGGCCCGCCCGCCAAAAGGGGGCCCAAAGCG
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GGGGAAAAAAACCCCGGGGGCCAAAAAAA AAAAAACCGCCGAGCGCAAAAAGGCCCGAAACCCGAAA
GCCGCCCCCCCCGGGACGGCGGAAAAAAA AAAAAAGCGCCGCGCCGGA AAAAGCCGGGGCAAAAAGGC
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GCGGCGCCCGGGGGACGGCCGAAAAAAA AAAAAACGCCGGCCCCCGAAAAAGCCGCCCGAAAAGGC
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CCGCAAAAAAAGCGGGGCGCGAAAAAAA AAAAAAGCGGGGACCGCAAAAACGGCGGAAACCCCAAA

> 5 The Gammaretrovirus Signal - Difficulty Level 0

..((..((((((.....))))))..).).....((((..(((..((((((((.....))))))....)))))))))..((((((((.....)))))))).

AACGCGAAGGACGUAAACGUUUUAAGGGGAAAAAAGCCGAAGCGACCACGGGGGCGAAGGCCCCAA
GAGUGGCGCCGGGCAAAUCCUUGGGUACCCAGGGGUAA
AACGCGGGUUAGCAGCAGCUAAUAAGGGGAAAAAACCCTGACCCAGGGCGGCCCAAGUGGGCCAG
AAGCCCCGGGGGGGAAGCCGGGCGAAAAACGCCCGGCAA
AACGUUAUGUGGACGCCUCCAUAACGGGGGAAAAAACCCTGAAGGCUGCCCCCGGGAAAAACCCTGAA
AAGGGCGCCCCGGGAAGUAUCGCUCUAAAGCGGUAAUA
AACUCGACCGCGGAAAAACCGCGGAAGUGAAAAAGCCCGAACUCUACCGGGGGGCUAAAGCCCCGA
AACGGUGAGCGGGAACCGCCCCCAUAAGGGGGCGGAA
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AGAGGCCCGCUCGCAAGCGGCCUCUGGUGAGGCGCGAA
AAGGCGACCAGGCGAACGCCUGGGAGGCAAAAAAGGCAAAGCCACGCCCCCGCAGAUGCGGGAA
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AAGGCGAUGGGGUUUUAUAACUCAGAGGCAAAAAAGGCAAAGGGAGGCGCCGGCAAAUGCCGGA
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AAGGGUGCCGGCCUGUUGGCUGGUGUGCAAAAAAGCCCAAGCCACCGCGGGGGCAAAUGCCCCAA
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AAGUCAACGGGGCAAAAGCCCCGAGGUCAAAAAAGGCCAACCGAGGCGAGCGCAAAUGCGCUUA
UACGCCCGGGGCCAAGGCCCGCGAAAAACGCCGGGCCAG

> 6 Saccharomyces Cerevisiae - Difficulty Level 0

((((((((((.....)))))).(.....))....((((.....)))))).....((((((..((((.....))))((.....))....((((.....)))))))))
)....((((((..((((.....))))((((.....))))....((((.....))))))))).....((((((..((((.....))))((((.....))))....((((.....)))))))))
)....((((((..((((.....))))((((.....))))....((((.....))))))))).....((((((..((((.....))))((((.....))))....((((.....)))))))))
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GGGCGCCGCCCAUAGUAUAGGGCAGGGAAAAAAGAAACCAUAACCCCGAAAAAACGGGG
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AAUAGGGCGGCCACAAAAAAGUGGCCAAAACCGGCAAAAAAAGCCGGGGCCGGCCCCC
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GCAAAAAAAGCCCGCAAAAGGCGGAAAAAAACCGCCGGCCGGGAAAAGCGGGCCAAGCGGAAAA
AAAACCGCCGCCGGA AAAAACCAGGCGAAAAGCGGCAAAAAAAGCCGCGGCCCGCAAAA

> 7 Fractal 2

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 CCGAACGCCAAAAAAAAAGGCGAACGGCAAAAAAAAAAGCCGAACGGGGGCGGCAAGGCCGCG
 GCGGAAGCCCAAAAAAAAAAGGGCAAGCCCAAAAAAAAAAGGGCAAGGCCAAAAAAAAAGGCC
 AACCGCGCGGCCAAACGGGCGCGGAAAAA
 AAAAACCGGCCCCAAACCGCGGGCGGAAGCCCAAAAAAAAAAGGGCAACGCGAAAAAAAAAACG
 CGAAGCGCAAAAAAAAAAGCGCAACCGCCCGCGGAAACCCGCCGCCAACGGCAAAAAAAAAAG
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 GAACGGCCGCCCAAGGGGCGCGGAAAAA
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GG

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AACGCGAAGGGCGCAAACGGACGCGGCCAAAGGCCAAGCGCCGAAAGCCACCCCCCAAAGGGG
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CG

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GAACCCCCCAAACGCAGCGCCGGAAACCGGAACGCGCGAAACCCAGCCGGGCAAAGCCCAAGGC
GGG

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AACGGGAAGGCCCGAAACGCAGGGCGGCAAAGCCGAACCCGCGAAAGCCACCGCCCGAAACGGG
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GG

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AACCGCAAGUGCCGAAACGGAGGGCGCGAAACGCGAACCCCGAAAGAGUGCCCGCCAAAGGCG
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CG

> 10 Frog Foot

.....((((....)))((((....)))((((....))))

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> 11 InfoRNA test 16

(((((.((((((((....)))))).)).))))))

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CGCCGCACGGGCGGCAAAGCCGCACCAGAGCGGCG
CGCGCCACGCCGCCGAAAACGGCGAGCAGAGGCGCG

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CGGGCGAGGCGCCGAAAACCGGCAGCACACGCCCC
GCCCGCACCGCCGCGAAAACGCGGACGAGAGCGGGC
GGCCGGACGCCCCCAAAGGGGAGCAGACCGGCC
GGCGGCACCCCGCGGAAAACCGCGAGGAGAGCCGCC

> 12 Mat - Martian 2

(((((.....)))...(((((((.....))))))))...(((((((.....(((((((.....))))))))))))...(((((((.....))))))))
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CCCCAAAAGGGGAAACGGCGCGAACGGCCGGAAAAAAACCGGCCGCGCGCCGAAAGCGCCGGGA
AAAAAGCCCCGCCACGGCGGCAAAAAAAGCCGCCGGGCGGGCAAAACCGGCCGGGGCCGAAAAAA
ACGGCCCCAGGCCGGGAAAAAAACCGGCCGCAAAGGCGGCGCGGGGGCAAAAAAAGCCCCCGAAC
GCCGCCAAAGGGGAAAAACCCC
CCCCAAAAGGGGAAAGGGGCGCCAACCGGCCGAAAAAAACCGCCGGGGCGCCCAAAGCGGGGGCA
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ACGGCCGCACCCCGGGAAAAAAGCCCCGCAAAGCGCGCGGGGGGGGAAAAAAACCCCCCAAC
GCGCGCAAAGGCCAAAAAGGCC
CCCCAAAAGGGGAAAGGGGCGCAAGGGCGGCAAAAAAAGCCGCCCGCGCCCCAAACCGCCGCCA
AAAAACCGCGGCACGCCCCGAAAAAAACGGGGCGGCCGCGGAAACCCCGGCCGCCGCCCAAAAAA
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GGCGCGGAAACCCGAAAAACGGG
CCCGAAAACGGGAAACCGGGGCAAGGCCGGGAAAAAAACCCGGCCGCCCCGGAAAGCCCCGGCA
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GCCCGCCAAAGGGCAAAAGCCC
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GGCAAAAGGCCAAAGGCGGGGAAGGGCGGGAAAAAAACCCGCCCCCCCGCCAAAGCCGGCCGA
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CGCGGCAAAGGCGAAAAACGCC

> 13 square

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AUAAUAAUUUUUAUUUUAAAAUAUAUCCCAUAUAUCCCCUUUAAAACCCCUAAAAACCCCUUAUU
AU
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CGG
CCGGGCCCGCCCGGCGGGGCCGCGCAAAGCGCGGAAAACCCCGCCAAAAGGGGCGAAAAGGCC
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CGC
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CCC
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UA
UAUUAUAUUAAAAUAUUUAUUUAAAAUCCCAUUUUACCCCAAUAAAUCCCAUUUAACCCCUAUA
UA

> 14 Six legd Turtle 2

.....((...((...))...((...))...((...))...((...))...((...))...)).....

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 AUCCAUAAGGGAGACCGAUAGCGAAUAUAGAAGAAAGAAUAG

> 18 snoRNA SNORD64

(((((.....(((.....(((.....)))))).....)))..)))..))))))
 CCCCGGAAAAACGGAAAAGGCAAAACGCGCAAAAAAAAAAAAAAGCGCGAAAAGCCAACCGAACCG
 GGG
 CCGCCCAAAAAGCCAACCGAAAGGGCGAAAAAAAAAAAAACGCCCAAAACGGAAGGCAAGGG
 CGG
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 CGG
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 GGC
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 CGC
 GGGGCGAAAAACCGAAAAGCGAAAGCGGGAAAAAAAAAAAAACCCGCAAAACGCAACGGAACGC
 CCC

> 19 Chalk Outline

.....((((.....))))).(((.....))))).((((.....))).((((.....))))).((((.....))))).
 AAAAACCCACGCGCAAAAGGACCGACGACGCAAAAGCGCCGACGCCCGAAAACGAGGCGACG
 CGGAAAACCGACGGGGGAAAAAAAAAAAAAAAAAAAAA
 AAAAACCCGACGCGGAAAACGAGCGAGGCACCGAAAACGGGCCAGGCGCGAAAACGACGCCACG
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 GCGAAAACGCAGCGCGGAAAAAAAAAAAAAAAAAAAAA
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 GCGAAAACGCACCGGCGAAAAAAAAAAAAAAAAAAAAA
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 CCGAAAAGGGACCGGCGAAAAAAAAAAAAAAAAAAAAA
 AAAAACGCGAGGGGGAAAACCCAGGGACCCAAAAGGGCCAGGCGGCAAAAGCACGCCAGG
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 GGGAAAACCCAGCGCCGAAAAAAAAAAAAAAAAAAAAA
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 AAAAAGGGCAGCGGCAAAAGCACGCAGGGAGCCAAAAGGCCCCAGCCGGCAAAAGCACGGCAGG
 CCGAAAAGGGACCGCCAAAAAAAAAAAAAAAAAAAAA

> 20 InfoRNA bulge test 9

(((((.((.(((((.....))))))))))))))
 CCCC GCCAGAGAGACGCGCGGAAAACCGCGCGCCCGGCGGGG
 CGCCGCCAGAGAGAGCGCGGAAAACCGCGCGCCCGGCGGCG
 CGCCGGGAGAGAGACCCCGCGAAAACGCGGGGCCCCCGGCG
 CGCGCGCAGAGAGACCCCGGCAAAAGCCGGGGCCCGCGCGCG
 GCCCCCGAGAGAGAGCCGGGAAAACCCCGGCCCCCGGGGGC
 GCCCGCCAGAGAGACCGCGGAAAACCGCGCGCCCGGCGGGC
 GCGCCCGAGAGAGAGGCGGCCAAAAGGCGGCCCCCGGGGCG
 GGCGGGCAGAGAGAGGCGGCCAAAAGGCGGCCCCCGCCGCC
 GGGCGCGAGAGAGACCGGCCAAAAGGCGGCGCCCGCGGCC
 GGGCGCGAGAGAGAGGGGGCCAAAAGGCCCCCGCCCGCGGCC

> 21 Tilted Russian Cros

.....(((((((.....))))(((((.....))))(((((.....))))(((((.....)))))).....
 AAAAACCGCGGCCAAAAGCGCGGGGAGCGGAAAACCGCCCCGAAAACCGGGAGGGGAAAACCC
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 AAAAACCGGCGGCAAAAGCGGCGGACGCGAAAACGCGGCGGCAAAACGCGCACGGCAAAAGCC
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ACGGCACCGGGGAACCCCGCAAAAAAAAAAAAAAAAAAAAAA
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UAAAAGAAGCCAAGGGCGAAAUAAAACGCCCAAGGAACCAAGCAGCAAAAAGCUGCACGGGGAA
ACCCGGUGGUCCAAGGCUACAAAAGAAAAAUAGAAAAGUU

> 25 The Ministry

(((((.....(((.....(((.....(((.....(((.....))))))))))))))))))..

CCCCAAAAGCCAAAAGGGAAAAAGCGAAAAAGCCAAAAAAGGCACGCACCCAGGCAGGG
CCGAAAAACCCAAAACGGAACCGCAAAAAGGCCAAAAAAGCCAGCGACCGAGGGACGG
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GGCAAAAAGCGAAAAACCGAAAAACCCAAAAGCCAAAAAAGGCAGGGACGGACGCAGCC
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> 26 stickshift

..((((((((.....)))))))).

AACCCGCGCGAAAAACGACGCGGGAA
AACCGGGGCGAAAAACGACCCCGGAA
AACGGGGGCCAAAAAGGACCCCGAA
AAGCCGCGCCAAAAAGGACGCGGCAA
AAGCGCCGGGAAAAACCACGGCGCAA
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AAGCGGGGCGAAAAACGACCCCGCAA
AAGGCGCCGCAAAAAGCAGGCGCCAA
AAGGGCCCCGAAAAACGAGGGCCCAA
AAGGGGGCCCAAAAAGGAGCCCCCAA

> 27 U

.....((((((.(.(((.(.((((((((.....)))))))))))))))))).....

AAAAACCCCCAGAGACCAGAGCGCGGGCGAAAACGCCCGCGCCGGCCGGGGGAAAAA
AAAAACCCCCAGAGAGCAGAGGGGCCCGCAAAAGCGGGCCCCCGCCCCGGGGAAAAA
AAAAACCGCCAGAGACCAGACCCCGGCGGAAAACCGCCGGGGCGGCCGGCGGAAAAA
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AAAAAGCCCCAGAGACGAGAGCGGCGGGGAAAACCCCGCCGCCCCGCGGGGCAAAAA
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AAAAAGCGGGAGAGAGCAGAGGGCGCCGAAAACCGGCGCCCCGCCCCCGCAAAAA
AAAAAGGGCCAGAGAGGAGACCCCGCCGCAAAAGCGGCGGGGCCCGGCCCAAAAA

> 28 Still Life (Sunflower In A Vase)

AACACCAAGGCGCAAAAAGGCCCAAGCCGGAACACCGGAAACACCGCAACACCGGA
 AACCCCGGAACCGCGAAAUACGCGGAAGGCGCAAAAAGCGCCAGGGGCCCCGCCCCCCCCGGGCC
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 AAAAAAAAAAAAAAAAAACCGGAAAAAAAAAAAAAAAAAGGCCCGGCCAAAAGGGCCAGGCCCGCCGG
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 AAAAAAAAAAAAAAAAAACCGGAAAAAAAAAAAAAAAAAGCCGGCCGCCAAAAGGCGGACGGGGCGGCC
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 AAAGCGCAAGGCCGAAAAACGGCCAACCCCCAAAGGGGGAAGCGGCAAAAAGCCGCAAGGCGCA
 AAGCGCCAACGGCCA AAAAGGCCGAAGGCCCA AAAAGGGCCACGGCGCCGGCCGGCGCCCCGCC
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 AAAAAAAAAAAAAAAAAAGCGCAAAAAAAAAAAGGGCCCCGCCAAAAAGGCGGACCCGCGCCGG
 CCGCCGCCGGGGCAACCCGCAAAAAGCGGGAACGGGGAAAAACCCCGAAGCCGGA AAAACCGGC
 AAGCGCCA AAAAGGCGCAACGGCCAAAAGGCCGAAGCGGCAAAAAGCCGCACGCCAAA

> 29 Quasispecies 2-2 Loop Challenge

.....(((((((((((((.....))))))..))))).((((.....))))).((((.....))))..)))))).....

AAAAACGACCGCAGGCGGAAACGCGAAUGCGAGCCGAACAGAGGACGGCAGGCGAACAACGC
 AAAAUGCGAAGAACGCCGUCGAAAAAAGAAAAA
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 AAAAAGGCAACAAGCCGGCGCAAAAAAAAAA
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 CCCCCGGCCGCCAACGCCAAUUGGCGAAGGCCACCGCGACAAAGGAGCGGAGCCGAAGAACCC
 AAAAAGGGAACAACGGCGGCCCCCCCCCCCCCCCCCCCC

> 30 Corner bulge training

.((((((((((((.....))))))....)))))).

ACGCCGCGCCGCAAAGCGGCAAAAGCGGCGA

> 31 Spiral

AAAAAACCGCAGGCGACCGGACCCCGACCGCAGGGACGAGCAGCAGCAAAAAAGCGCG
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 CGGCCGCGCCGGGGGGCGGGCCGCGCCCCGCGCAAAAAA
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.....((((.....(((.....(((((.....((((.....((((.....)))).....))).....)).....))).....)))).....

18

AGCGCAAAAAGCAGCACCAGCAACGACCAAACGACCAAAAAGGAGCAAAAACGAGCA
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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGGCAAAAACCCGAAAAGGCCAAACGGGAACGGG
AGGGGAAAAACCACCACCAACGAAAGGACCAAAAACGAGGAAAAAAGCACCA

> 33 Worm 1

.....((.((.((.((.((....)).)).)).)).))

AAAAAAACGUGGGCGGGUGGCUAGGUUACAGGGCGGUGGGCGGGG
AAAAAAACGUGUGGGCGCCACCACGAAAGAGGAGGGGGCGAGGGG
AAAAAAAGGCGGGCGGGGGGAGGCGAGAGGCUGCUAUGGGCGGGC
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CAUUAGAGUCGGGUGCGGGGAGACGAAAGACUGCUGGGGGUGGUC
CGUUUAAGUCGGGUUCGAGGCGGCGCAAGGCGGCUGGCGGUGGUC
GCGAGACGGGGCGUGGAGCACCAGGAAACGGGAGCACGGGGGCGC

> 34 just down to 1 bulge

.....((((((((....))))).(((....))).)).)....((((((((....))))).(((....))).)))).....

AAAAACCGCACGGGGA AAAACCCGAGGCAAAAAGCCAGCAGGAAAACCCGACGCAAAAAGCGACCG
AAAACGGACGGGAAAAA
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AAAAGGGACCCCA
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AAAAGCCAGCCCA
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AAAACCCAGGGCAAAAAA
AAAAAGGCGACCCCA AAAAGGGGAGGCAAAAAGCCACGACCAAAAACCGGACGCAAAAAGCGACGC
AAAAGCGACCGGAAAAA

> 35 Iron Cross

.(((.((((...(((.((((...))).(((((...))).))...(((.((((...))).(((((...))).))...(((.((((...))).(((((...))).))...))).(((((...))).))..

ACCGACCCAAAGCCACGGAAACCGAGGGAAAACCCAGGCAAACGGAGCGAAAACGCACGGAAAC
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GCACGGAAAGGGAGCGAAAACGCAGCCAAAGGCACCCAAAGCCACGGAAACCGACGCAA

> 36 loops and stems

.....(((((((...(((((((...(((((((.....(((((((.....))))))...))))....(((((((.....))))...))))....(((((((.....))))...))))..((.....))...)))))).
....

AAAAACGCGGGCAAACCCCAAAGGCCAAAGCCGAAAAAAAAAACCCCAAAAAAAAAAAAAAGGGGG
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> 39 Adenine

CCCGGACACCCCGACGCGGACACCGGGACACGCGGACACCGCGCAAAGAGCCGAGAAACCGCGGACGCGGAGCCGGAAACGCGCCGAAACGGCGCGCCGGCACGCGCGACGCGCCCGCGCGAAACGCGCGAAAGCGCGAGCCCGGAAAACGCCGCAAAAGGGGGGAAAACCGGGCCGGGACGGGGGAGGCCCCAGGCGCGACGCGCGAGGCGCCAAAACCGCCCAAAAAAGGGCGGAGGCGCCACCCCGAAAGGCCCCCAAAGGGGGCCCGGGGACGCGCGACGCCCGCGCCGGAAACCGCGCAAAGGGCGACGCGCCAAAAGGGGGCCAAAACCCCCGAAAACCCGGCCGGGACGGGGGAGGGGGCGACCGGCGAGCCGGACCCCGCAAAACGGCGGAAAAAACCGCCGAGCCCGGAGGGGGAAACGGGGGCCAAAGGCCCCCGCCCCACCCGGCAGGCCCGCCCGCCCAAGGGCGGGAAACGGCCACGCCGGAAACGCCCCAAAACCCCCGAAAACCCGGCGCCGACCCGGGACGCCGCAGGCGCGACGGGCGAGCCCCAAAACCGGCGAAAAAACGCCGGAGGGGCACGCGGAAACCGGGCGAAACGCCCGGCCGCGACGCCCGACCGGGGCCCGCCAAAGGGCGCAAACCCCGACGCGCCAAAAGCGGCGAAAACCCGGGAAAACGGCGCGCCGACCCGGGACGCCGCAGGCGCGACGGGCCACGGCCCAAAACGGGCGAAAAAACGCCCGAGGGCCGACCCCGAAAGCGGGCGAAACGCCCGCCGGGGAGGGGCCAGGGGCGGCCGCGAAACGCGCGCCAAAGCCCCAGCGCGCAAAAGCGCCCAAAACGCGGGAAAACCGCGCGGCCACGCCCGACGGGCCACCCGGCACGCCGCACCCCCCAAAAGGGCGGAAAAAACGCCCCAGGGGGACGGGCAAAGCCGCGGAAACGGCGGGCGCCCGAGCGGCGACCGGCCGGGGCGAAACGCCCCGAAAGCCGGAGCCGGGAAAAGGCCCGAAAACGGGCGGAGGCCGCAAAAAAGCGGGCCACCCGGCACGCGCAAAGCGCCCCAAAGGGGGCGCGCGAGGGGGCACGCGCGGGGCCCAAGGGGCCAAAGCGCGACGGGGCAAAGGGCGGCAAAACGCCCGAAAAGGGGCGGCGAGCGGCCAGGGCGGACCGGCGCAAAAGCGCGCAAAACCGCCAAAAGGCCGCAAAACCGCCGGGGGACGGCGGAGGGGCCAGGGCGGAGGCGCGACGCCGGAAAACCCCGCAAAAAAGCGGGGACCGGCGACCCCCAAACCGGCGGAAACCGGCCGGGGGGGACGCGCCACCCCGCCCGCCGAAACGGCGGGAAACGGGGACCGCCCAAAAGGGGCCAAAACCGCCCGAAAACCCCC

$$\dots(((((((\dots))))))(((\dots))))))\dots$$

23

> 41 Shortie 6

((....)).((....)).((....)).((....))

AGGAAACUCAGGAAACUCAGGAAACUCAGGAAACU
CCAAAAGGACCGAAAGGAGGAAAACCAGAGAAAU
CCAAAAGGAGGAAAACCAGGAAAACCAGCGAAAGC
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GGAAAACCAGCAAAAGCAGCAAAAGCACGGAAACG
GGAAAACCAGCAAAAGCAGCUAAAGCAGCGAAAGC
GGAAAACCAGGAAAACCAGCAAAAGCACCGAAAGG

> 42 Runner

.....(((((((.....((((.....)))))))))...(((.....((((.....))))))...((((.....))))...(((.....((((.....))))))...)))).....

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> 43 Recoil

.....(((((((.....((((.....)))))))))...(((.....((((.....))))))...((((.....))))...(((.....((((.....))))))...)))).....

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AAAAAAAAAAAAAAAAAAAAA


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AAAAAAAAAAAAAAAAAAAAA
AAAAAGGGGGAAGGAAGGAACGCAACCGAACCAAGCAAAGCAGGACGGAGCGACCACCACCCCC
AAAAAAAAAAAAAAAAAAAAA

```

> 44 [CloudBeta] An Arm and a Leg 1.0
((((((((.....))))))((((.....)))))).....

```

AAAAACCCACGCGCAAAACGACCGGGGACCAAAAGGCCAGGGAAAAAAAAAAAAAAAAAAAAA
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```

> 45 [CloudBeta] 5 Adjacent Stack Multi-Branch Loop
 (((((((((((.....))))))((((.....))))))((((.....))))))((((.....))))))..

```

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```

> 46 Triple Y
((((((((((((.....))))))((((.....))))))((((.....))))))((((.....)))))).....

```

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```


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> 49 Kudzu

.....(((.(.(((((((((((((.....)))))).))))(((((((.....))).))..(((.....)))....)).).)).....
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GCAAAGCCACAACAGCCAAAAAAAAAAAAAAAAAAAAA

> 50 "1,2,3and4bulges"

.....(((.(.((((.....))))).(((.....))))).).....(((.(.((((.....))).(((.....))))).).)).....
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AGCAGCCGGAAGGCAGGAACCAAAAAAAAAAAAAAAAAAAAAA

[illegible]

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 GGAGACUCGAUACGCGGGAGCGAUACGGGGGGACCUGUAAGACGAGAGUCACAGGAGACUGAC
 UUGGGGAGACCCAAGACCCCCC

> 52 [RNA] Repetitious Sequences 8/10

..(((.....((.....)).....((.....)).....((.....)).....)).....)

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[illegible]

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30

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> 54 7 multiloop

(((((((((....))))))((((((....))))))((((((....))))))((((((....))))))((((((....))))))((((((....)))))))))
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 CAAA
 GCCGCCCCCGGCACGCGGAAGCCGGAAGAGGCGGCAACGGCCAAACGCCGAACGCGCCACGGGCC
 GGGCGCGGAAAAACCGCGCCCGGCCCGAACGGAACCGACGGGGGCCCAAAGGGCCCCCGAAG
 GCCGAAAAACGGCCAGGCGCGACGGCGAGGCCGAGCCGCCAAACCCCGCCGAAAAACGGACGGGG
 AAGCGGGGGCGCGCCCGGCCGCGCAAAAGCGGCCGGGCGGGCAGCGCCCCCGCAAAGCGCGA
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 CGCGAGCGACCGAAAAACGGCGCCGCGAGGCGGCGCCAAAAGGCGCACGCCAGCCGAGGGACGGC
 AAA
 GCGCCGCGCCAGGCCCAACGGCGAAAAAGGCGCGAACGGGCAAAACCCGCAACCGCCGAGGGCGG
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 AAA
 GCGCCGGCCCCAGGGGCAAGGCCGAAAAAGCCGGCAAGCGCGAAAGCGGCAAGCGGGGAGGCC
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CCGCGAAAAACGCGGACCCCGCAGCCGCACGCGCAGCCGGCAAAGCGGGGCCAAAAAGGCACCCG
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 CAAA

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 AAAAAAGCCCCCGCCGCGCAAAAGCGGCGGCGGAAACGGGAAAAACCCGAAGCGGGAACGGGGA
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 AAA

GGGCCGGGCCGACGGCGAAGCGCCAAAACCGGGCAAGGGCGAAAGGGGCAACGGGGGACGCGG
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 GGGCGAAAAACGCCACCCCCGAGCCCCACGCCAGCCCGGAAACGCGGGGCAAAAAGCCACCGC
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 AAAAAAGGGGCGGGCGGCCCAAAAGGGGCCGCCAAAGGGGAAAAACCCAAGGCGCAACGCCG
 AGGCCACCGAGGGAAAAACCCCGGGGCCACGGGGGCGCAAAAGCGCCACCCGACGGCACCGAGCC
 CAAA

> 57 multilooping fun

((.(.(....).(....).).).(....).))

CCAGGUCAGGCAACGCGGAAGAGGUCAGGGGACAGG
 CCAGGUCAGGUCACAGGAAACAGGUCAGGAAACAGG
 GCACUGCUGGAAACUGGAAACCGUGGACGAAAGAGC
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 GCAGGGCAGGCAACAGGAAACAGUACAGGAAACCGC
 GCGCGACACGAAAGAGGUGACAGGAGAGGGGACGGC
 GGACUGCAGGUGACACGAAAGGGUGGAGGAAACACC
 GGACUGGGGGGAGCACGAAAGACUGGACGAAAGACC
 GGAGUGCACGCAAGGGGAAACGGUGCAGGAAACACC
 GGAGUGCCGGAAACUGGAAACUGUGCAGGAAACACC

> 58 Multiloop...

(((((.((((.(....))).((....))).((....))).((....))).((....))).((....))).(((((.....))))((....))))))

CCCGACCGCAGCCAAAAGGCAGCCAAAAGGCACCCAAAAGGGACGGAAAACCGAGCGAAAACGC
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 GGGCAGCCCACCCAAAAGGGACCCAAAAGGGACGGAAAACCGACGGAAAACCGAGGGAAAACCC
 ACCGAAAACGGAGGGCAGGCCAAAAAAGGGCCGGGAAAACCCGCC

> 59 hard Y

.....(((((((.....)))))).))(((((((.....))))))))......

AAAAACCGGCGCGCCUGGAGUGGGCUCGGGACCGGGGCGGGGCCAAAAGGCCCGCCCCCGGA
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 AAAAAGGGCGGACCACCGGAAGUGUCCGGUGCGCCGCGCCGGCGCAAAGGCGCCGGCGCGCCCA
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 CCCCCCCCCGCGCAGCGCAAAGAUGCGCUGACCGGACAAUCCCCGGAAGGGGGUUGUCGGGGC
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 CCCC
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 CCCC
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 CCCC
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 CCCC
 CCCCCUACUCGACCUCUGUAGUCAUAUAGAGCGCGGCAGGUCCCGCAAUCGGGGCCUGCAGUAC
 CCCC

> 60 Mat - Elements & Sections

.....(((((((.....)))))).))(((((((.....)))))).)).....

AAAAAGUCACAGACGCCGACGAGAUUGGACCCGCGCGCGAAAACGGGGACCGGGCGCAUCU
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 AGAACACGCCACAAAGAGCCGAAAAAAAAAAAAAAAAAAAA
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 CCCCCACCCACAGACACCCAAGACCGUUGGUGCCGACCUCCCGGAAGGGCGCGCGGCCGCACGG
 AAGACAUGGGAGAUAGAGGGUCCCCCCCCCCCCCCCCCCCC

> 61 Chicken feet

.....(((.(((...)).((...))...))).((.(((...)).((...))...)))......
 AAAAACGACCAGCAAAGCACCAAAGGAAAGGCGAGGAGCACGAAACGAGCAAAGCAAAGCCCCAA
 AAA
 AAAAACGAGGACCAAAGGACGAAACGAAACCCGAGGAGCAGCAAAGCAGCAAAGCAAAGCCCCAA
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 AAA
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 AAA
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 AAAAAGCAGGACCAAAGGACGAAACGAAACCGCAGGAGGACCAAAGGACGAAACGAAACCCCCAA
 AAA
 AAAAAGCAGGAGCAAAGCACGAAACGAAACCGCAGGACGAGGUAACCACGAAACGAAACGCCAA
 AAA
 AAAAAGGACCACGAAACGACCAAAGGAAAGGCCAGGAGGAGCAAAGCAGCAAAGCAAACCCCCAA
 AAA
 AAAAAGGAGGACGAAACGAGCAAAGCAAACCCCAGCACCCACGAAACGAGCAAAGCAAAGGGCAA
 AAU

> 62 Bug 18

.(((.(((.(((.(((.(((...)).)).)).)).)).)).)).....).
 ACCGCCAGAAGCGGGCGACGACCAUAGGAACGAGCAGCGAUUCGAGGACAAGGA
 ACCGCCGCCAGCAACGAACGACCAAAGGAACGACGAGCAAGGAAGGAUAAGGA
 AGCACCACCACCAAGCGAGCAGGGAACCGAGCAGCAGGAAGGAAGGAAAAGCA
 AGCACGACCAGCAAACGACGACCAAAGGAACGAGUAGCAAGGAACGAAAAGCA
 AGCAGGACCAGGAACGAACGAGCAAAGCAACGACGACCAAGGAACCAAAAAGCA
 AGCAGGAGGACGAACGAAGCACCAAAGGAAGCACGACGAACCAACCAAAAAGCA
 AGGGACACGAGCGAGCGGCCGCAUAGCAAGGAGCAGCAACGGGGUACUACCA
 AGGGACAUGAGCAACUGACGGGCAUAGCGACGAAGGGCGACAGAGUACAACCA
 AGGGCCAUCGGCGGGCGAGGACCAUUGGAGCCAGCAGCAGGAGGGGAAAACCA
 CGCGGCACCAGGAACGAACGAGCAGAGCAACGACGACCAAGGAAGCAAAGGCC

> 63 Fractal star x5

.....(((((((.....))))..((((.....))))..((((.....))))..((((.....))))..)))))).....(((((((.....))))..((((.....))))..((((.....))))..((((.....))))..)))))).....(((((((.....))))..((((.....))))..((((.....))))..((((.....))))..)))))).....(((((((.....))))..((((.....))))..((((.....))))..((((.....))))..)))))).....
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CAAGCCCCGGGAAAAA
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 AAAAGGCGAAGCCGAAAACGGCAACCGGAAAACCGGAACGCGAAAACGCGAACCCCGGCAAAA
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 AAAAAGGCCCGGCAAGGCCAAAAGGCCAACGGGAAAACCCGAACCCGAAAACGGGAAGCGCAAA
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 AAAACGCCAAGCCGAAAACGGCAACCGCAAAAAGCGGAACGGGAAAACCCGAACGCGGCCCAAAA
 ACCCGGGGGAACGGCAAAAAGCCGAACCGGAAAACCGGAAGCGCAAAAAGCGCAAGGCGAAAACGC
 CAACCCCGGGAAAAA

> 64 Crop circle 2

GCGAGCCGAAGCCACAAACCAAAACAUAAAGCGAAGAGAAAAAGAGGAUAGAAAUUUAAGAGCG
 AAGAGAGAAAAAAGGGGAAAAAAAGGGAGAUAAAGGAAGAGCAAAA

> 65 Branching Loop

.((((((.....)((((.....)))))).....

ACCCCCAAAAAAAGGCGGAAAACCGCAAGGGGAAAAAAA
 ACCGCCAAAAAAGGCGGAAAACGGCAAGCGGAAAAAAA
 ACCGGGAAAAAACGGCGAAAACGCCAACCGGAAAAAAA
 ACGCCCAAAAAAAGGCGCAAAAGCGCAAGGCGAAAAAAA
 ACGCGGAAAAAACGGCGAAAACGCCAACCGGAAAAAAA
 ACGCGGAAAAAACGGGGAAAACCCCAACGCGAAAAAAA
 ACGGCGAAAAAACGCGGAAAACCGCAAGCCGAAAAAAA
 AGCGCGAAAAAACGCGGAAAACCGCAAGCGCAAAAAAAA
 AGGCCGAAAAAACGGCGAAAACGCCAAGGCCAAAAAAA

$$.(((.(((.(..((.(...).)).).)).)...)).$$

> 67 Simple Single Bond

.....(.....((((.....)))).....).....

> 68 *Taraxacum officinale*

[illegible]

ACGCGAAAGACGUAACCCGAAAGAGGUAGCGCGAAAGACGUACCGGGAACACGGAGCCCGAAA
GAGGCACCCCGAAAGAGGGAUAUGGAGAUCCGGCCGCGCCCAAAGGGGACGCGGCCCGCGCA
AGGCCCCGCGGAGCGCGGGGAAACCCCGCGACCGCGGGGCCGGCCUGCCCCCAAAGGGGGUGGC
CGCGCGCCCGGAUCUCCAUAAGGGCAAAAGACCCACCCCGAAAGAGGGAGGCCAAAAGAGCCAC
GCCAAAAGAGCGACCGGGAACACGG

AGGCGAAGGACCUAAGGCGAAAGACCUAAGGCGAAAGACCUACGGCGAAGGACCGAGGGCGUA
AGACCCAGGGCAAAAGACCCAACAAAUUACUAGCGCGCGGCCCAAAGGGCACGCGCGCCGCGGC
AAGGGCGGGCCCCAACGGCGGGAAACCCGCCGAGGGGGCCGCCGGGGAGGCCGCAAGGCGGGCCC
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CGGCGUAAGACCGAGGGCGAAGGACCC

CAGCGAAAGACUGACAGCGUAAGUCUGACGGGGAAACACCGACAGCGAAAGACUGAGCGCGAAA
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GGAGGAGACAUCCAGCGCUAAAGACGCGAGGGCGAAAGACCCAACCCAAAAGAGGUAGAGCGAAA
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CCUGGGCAAAGCCUAAUGGGGACCGCAUAAGACGGAGGCCGGAAGAGCUAAGGGGGGAACACCU
AGGGCGAGAGACCCAGGCCGGAAGAGCU

> 69 Headless Bug on Windshield

.(((.....((((.....((((.....)))))).....)))).....)).(((.....((((.....((((.....)))))).....)))).....)).(((.....((((.....((((.....)))))).....)))).....)).
ACGACGAAAAACCCGAAACGACCCAAAAAAGGGACGAAACCGAG
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GCAAGGCA
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CAAAGCAGCAGCCAACCCAAGCAUAAAAGGAAGACCAUUAUAAAGCGGGAAAAAAGGCAGGCCC
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AGGAAGGCA
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$$\begin{aligned} & \dots(((\dots(((\dots(((\dots(((\dots))))))(((\dots)))\dots)))(((\dots(((\dots)))\dots)))(((\dots(((\dots)))\dots)))(((\dots(((\dots)))\dots)))\dots) \\ & \dots))))))(((\dots(((\dots(((\dots)))\dots)))(((\dots(((\dots)))\dots)))(((\dots(((\dots)))\dots)))\dots) \end{aligned}$$

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49

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> 82 Anemone

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> 86 Methaqualone C16H14N2O Structural Representation

53

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> 95 Multilooping 6

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> 96 Cesspool

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> 97 Hoglafractal

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> 98 Bullseye

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1.2 V2T04

> 1 Simple hairpin

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CGGGGAAAAAACCCCG  
GCCCCAAAAAAGGGGC  
GCCGCAAAAAGCGGC  
GCCGGA AAAAACCGGC  
GCGGGAAAAAACCCCG  
GGGCGAAAAAACGCCC
```

> 2 Arabidopsis Thaliana 6 RNA - Difficulty Level 0

```
((((((((....(((.....))))))(((((((.....((((((((((((((((.....((((.....)))))).)))))).)))))))).)))))))).)))))))).))))))  
CCGCCGGA AAAAGGGA AAAAAAAAAA ACCGCCCGCGA ACCCGCCGCGCGCCCGCGA AAGCCC  
GAAAAAACGGGCACGCGGGAGCGCGGCGGCGGGAACGCGGGGCAACCGGCGCG  
CCGGCGGAAAAGGCA AAAAAAAAAA AGCCGCGGGGCGAAGCCCCCCCCGCGCCCCGCGGAAACGGG  
CAAAAAAGCCCGACCGCGGAGGCGCGGGGGGGCAACGCCCCGCAACCGCCGG  
CGCGCGCA AAAACGCA AAAAAAAAAA AGCGGGCGGGGCAAGCCGCGGGGCCCGGGCCCAAGGGC  
GAAAAAACGCCCAGGGCCCAGGGGCCCCGGCGGCAAGCCCCGCCAAGCGCGCG  
CGGCCCCAAAAGCGA AAAAAAAAAA ACGCCGGGGGCCAAGGGCGCGCGCCCCGCCCGAAACCGC  
GAAAAAACGCGGACGGGGCAGGGGCGCGCGCCCAAGGGCCCCGAAGGGGGCCG  
CGGCCCCGAAAACCCAAAA AAAAAAAAAA AGGGCCCGGCGCAAGGCCGCGGGCGGGCGGCCAAAGGGC  
GAAAAAACGCCCAGGGCGCACCGCCCCGGCGGCCAAGCGCCGGGAACGGGGCCG  
CGGGCGCA AAAAGGGA AAAAAAAAAA ACCCGGGGGGCCAACGGCGGGCGGCGCGCCGGCGAAACCGC  
CAAAAAAGGCGGACGCCGACGCGCCGCGCCGCGCAAGGCCCCCCCAAGCGCCCCG  
GCCCGCCAAAAGCGA AAAAAAAAAA ACGCGCGGCCCCCAAGCGGGGCGGCGCCGGCGGCCAAACGGC  
CAAAAAAGGCCGAGGGCGCACGGCCGCCCCCGCAAGGGGCCGCAAGGCGGGC  
GCGCCCCGAAAACCGA AAAAAAAAAA ACGGCGCCGCCCAACCGGGCGCGCGCGCCGGCAAACCCC  
GAAAAAACGGGGAGCCGGCAGCGCGCGCCCGGGAAGGGCGGCGAACGGGGCGC  
GCGCGCGAAAAGCCA AAAAAAAAAA AGGCGGGGCCCGCAACGGGCCGCCCCGGGGCGCGGAAAGGGC  
GAAAAAACGCCCACCGCGCACCCGGGCGGCCCGAAGCGGGGCCCAACGCGCGC  
GGCGCCCCAAAACCGA AAAAAAAAAA ACGGGCCCGGCGAACCGCCCGCGCGGCGCCGCGAAACGGC  
CAAAAAAGGCCGACGCGGCAGCCGCGCGGGGCGGAACGCCGGGCAAGGGCGCC
```

> 3 Prion Pseudoknot - Difficulty Level 0

```
(((((.((((....)))))).))).....  
CCGCGCAGCGGAAAACCGCGCGACGGA AAAAAAAAAA  
CCGGGCACCGCA AAAAGCGGGCCACGGA AAAAAAAAAA  
CGGGCGACCGGAAAACCGGCGCACCGA AAAAAAAAAA  
GCCCCAGCGGAAAACCGCGGGAGGCA AAAAAAAAAA  
GCCCGCACGCGAAAACGCGGCGAGGCA AAAAAAAAAA
```


AACGCCCCGGGGCCAACCACCGUCCAUAGGCGGUGGAA
AACGCAUCCGCUCUGGAGGGUGGCAGGGAAAAAAGGCCAACCCAGCCCGGGCCAAAAGGCCCAA
AAGGGCGGGGGCCAAGGCCUCACAUGCGUGAGGCCAA
AACGCGGGGAGAACAACGUUCUCGAGGGAAAAAACGGGAAGGCACCGCGCGCGAAAAACGCGCAA
AAGCGGGCCCCCGAAGCGGCCGCAAAAGCGGCCGCAA
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AAGGGGCCCCCGGAAGGCGCGGCAAAAGCCGCGCCAA
AAGGCACCACGGUGCAGACCGUGACGGCAAAAAAGCCCAAGCGACCCCGCCGAAAAAU CGGGCA
AAGGGGCGCGGGCAAGCCGGGCGAAAAACGCCCCGGCAA
AAGGGAACGAGUCAUUCGGCUUGGGCGCAAAAAAGGGGAACCGAGCCCGGCGCAAAAGCGCCAA
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AAGGGACGAUGUAUACAUAUAUCUGCGCAAAAAAGCCGAACCGAGCGCGGGGCAGAAGCCCCGU
AAGCGCCGGCGGCAAGGCGCCACAUACGUGGCGCCAA
AAGGGGACCACACAAUCGUGUGGGACGCAAAAAAGCCCUUGCGAGCCCCCCCCGAAAGGGGGAA
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AAUGCCCGCCGCCUAAGGGGCACCAAAGGGUGCCCCAA

> 6 *Saccharomyces Cerevisiae* - Difficulty Level 0

((((((((((((.....))))).(.....))....((((.....))))))))....((((.....))))....((((.....))))....((((.....))))....
))....((((.....))))....((((.....))))....((((.....))))....((((.....))))....((((.....))))....((((.....))))....
))))))))....((((.....))))....((((.....))))....((((.....))))....((((.....))))....
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CCCGGGGAAAAACCGCCCCAACCGGAAAAAAGCGGGGCAAAAAAAGCCAAAAGCGCG
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AAAAAAGCGCGCGGGCGGAAAAAGGGGGCGAAGGCCAAAAAAGGCCGGCGCAAAAAAGC
GGCCAAAACGCGGAAAAAACC CGCGCGCCCCAAAAGGGCCCGGAAGCCCAAAAAAAGGGCCCG
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CGGCGGGAAAAACCGGGCGAACCCCAAAAAAAGGGGGCCAAAAAAGGCAAAAACCGCC
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 AAAAGCGCGGCGGGAAAAAAACCCGCCAAAAGGGCGAAAAAAGCGCCCGGCCGCAAAA

> 7 Fractal 2

....(((((((...((((((((((...(((.....))))..((((.....))))..((((.....))))..)))))))))...((((((((((...(((.....))))..((((.....))))..((((.....))))..)))))))))...
))))..((((.....))))..)))))))))...((((((((((...(((.....))))..((((.....))))..((((.....))))..)))))))))...)))))))))....
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 CG
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 AAGCGGCGAAAGCGACCCGCCCAAAGGGCAAGGGCGCAAACGGAGCGGCGCAAAGCGCAACGCC
 CG
 GCGAGGCGCCGAAACGGCAAGCCCGCAAAGGCAGGCGGGGAAACCCCAAGCCGCCAAACGGACC
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 CC
 GGCAGGCGGGGAAACCCCAAGCCGCCAAAGCCAGCCGGGGAAACCCCAAGGCGGCAAACCGAGC
 CGGGCAAAGCCCAAGGCCGGAACCCAGGCCGGCAAAGCCGAAGCCGGGAAAGCCACGGGGGGA
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 CC
 GGGACGGCCCGAAACGGGAACCGCCCAAACCGAGCCCCGAAACCGGAAGGCCGGAAGCGGAGC
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 AAGCGGAAGGCCCAAAGCGAGGCGCCCAAAGGGCAAGCCCGCAAAGCGACCGCCGGAACCGG
 AACGGCGCAAAGCGACGGGGCCCAAAGGGCAACCGCGCAAAGCGAGGGCGCCAAAGGCGAACCC
 GC

> 10 Frog Foot

.....((((.....)))((((.....)))((((.....))))

AAAAAAAAAAACCCGAAAACGGGCGGCAAAGCCGCGCGAAACGCG
 AAAAAAAAAACGCGAAAACGCGCCGAAAACGGGCGCGAAACCGG
 AAAAAAAAAACGGCAAAGCCGCGGCAAAGCCGCCCCAAAGGGG
 AAAAAAAAAACGGGAAAACCCGGCGGAAAACCGCCCGGAAACCGG
 AAAAAAAAAACGGGAAAACCCGGGGCAAAGCCCGGGCAAAGCCC
 AAAAAAAAAAGCGCAAAGCGCCCCGAAAACGGGCGCGAAACCGG
 AAAAAAAAAAGCGCAAAGCGCGGGGAAAACCCCGCGGAAACCGC
 AAAAAAAAAAGGCGAAAACGCCCCGAAAAGCGGCGCGCAAAGGCG
 AAAAAAAAAAGGCGAAAACGCGCGGAAAACCGCGCGCAAAGCGC
 AAAAAAAAAAGGGCAAAGCCCCGCAAAGCGGCGCGAAACCGG

> 11 InfoRNA test 16

(((((.....))))).).)))))

CCCGGACGCGGGGCAAAGCCCCAGCAGACCCGGG
 CCGCCAGCGCGCGGAAAACCGCGACGACAGGGCGG
 CCGCGCACGCGCGCGAAAACGCGCAGCAGAGCGCGG
 CGCCGCACGGGCGGCAAAGCCGCACCAGAGCGGGG
 CGCGGCACCGGGCGGAAAACCGCCACGAGAGCCGCG
 CGGGCGAGGCGCCGAAAACCGGCAGCACACGCCCC

AAAAAGGGGCCACGGCGGGAACCCGCGGGGCCCAAACGGGGGCCGCCCGGAAAAAA
ACCGGGCGAGCCCCGAAAAAGCGCGGGGAAAGCCGCGGGGCCAAAAAAAGGGCCCGAAC
CGCGGCAAAGGCGAAAAACGCC

> 13 square

((((((((((((((((((((((((...))))))....))))))....))))))....))))))

AAUAAAUUUUAAAAAAUUUUUUAAACCCUUUAAACCCCAAUUUUCCCCUUUAAACCCCAUUUA
UU
AUAAUAAUUUUUAUUUUAAAAUAUAUCCCAUAUAUCCCCUUUAAAACCCCUAAAAACCCCUUAUU
AU
AUUUUAUUUAUUAUAUAUUUUUAACCCUUAAAACCCCAUUAUAUCCCCUAAUAACCCCAUAAU
AU
CCGGCCGCCCGGCGGGGCCGCCCGAAACGGGGCAAAGGCCCGAAAACGGGGAAAAACGGC
CGG
CCGGGCCCGGCCCGGCGGGGCCGCGCAAAGCGCGGAAAACCCCGCCAAAAGGGGCGAAAAGGCC
CGG
GGGCCCGGGGCGCGCGCCGCGGGCCAAAGGCCCGAAAAGCGGCGCAAAGCGCCCAAAACGGG
CCC
UAAUUUAUAAAAUUUUUAAAAUUUUAUCCCAUAAAACCCCUUUAAAACCCCAUUUUACCCCUAAAU
UA
UAUAUAUUUUUAUUUAUAUUAUAUAACCCUUUAUAUCCCCUAAUAUACCCCAAUAAACCCCAUUA
UA
UAUAUAUUAAAAUUAUUUAUUUAAAAUCCCAUUUUACCCCAAUAAAACCCCAUUUAACCCCUAUA
UA
UAUUUUUAAUAUAAAAAUUAUAUUUCCCAAUUUACCCCUAAUUUUCCCCUAUAUCCCCAAAAA
UA

> 14 Six legd Turtle 2

.....((...((...))...((...))...((...))...((...))...((...))...((...))...)).....

AAAAACCAAACCAAAGGAAAGCAAAGCAAACCAAAGGAAAGCAAAGCAAAGCAAAGCAA
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AAAAACCAAAGGAAACCAAAGCAAAGCAAAGGAAACCAAACCAAAGGAAACCAAAGGAA
AGGAAAACCAAAGGAAAAAAAAAAAAAAAAAAAAA
AAAAACGAAACCAAAGGAAACCAAAGCAAAGCAAAGCAAACCAAAGGAAAGCAAAGCAA
AGGAAAACCAAACGAAAAAAAAAAAAAAAAAAAAA
AAAAACGAAAGGAAACCAAAGCAAAGCAAACCAAAGGAAAGGAAACCAAAGCAAAGCAA
AGCAAAGCAAACGAAAAAAAAAAAAAAAAAAAAA
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AGGAAAACCAAAGCAAAGGAAAAAAAAAAAAAAAAAAAAA
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AGCAAAGCAAACCAAAGGAAAAAAAAAAAAAAAAAAAAA
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ACCAAAGGAAACCAAAGGAAAAAAAAAAAAAAAAAAAAA
AAAAAGGAAAGGAAACCAAACCAAAGGAAAGCAAAGCAAAGCAAAGCAAAGGAAACCAA
ACCAAAGGAAACCAAAGGAAAAAAAAAAAAAAAAAAAAA
AAAAAGGAAAGGAAACCAAAGCAAAGCAAAGCAAAGCAAACCAAAGGAAAGCAAAGCAA

ACCAAAAGGAAACCAAAAAAAAAAAAAAAAAAAAAA
 AAAAAGGAAAGGAAAACCAAGGAAAACCAAGGAAAACCAAGCAAAAGCAAAAGCAAAAGCAA
 AGCAAAAGCAAAACCAAAAAAAAAAAAAAAAAAAAAA

> 15 Small and Easy 6

(((((.....))..((.....))))
 CCCCCAAAAAGGAAGCAAAAAAAAAAGCGGG
 CGCGGAAAAACCAACCAUAAAAAAAAAGGGCG
 GCCCAAAAAGGAAGGAAAAAAAAAACCGGC
 GCCCGGAAAGGAAGCUAAAAAAAAAUGCGGC
 GCCGAAAAACCAACCAAAAAAAAAAGGGGC
 GGCCCAAAAAGGAAGCAAAAAAAAAAGCGCC
 GGCCCAAAAAGGAAGGAAAAAAAAAACCGCC
 GGCGGAAAAACCAACCAAAAAAAAAAGGGCC

> 16 Fractile

.....((.....))...((...((.....))..((...((.....))...))..((.....))...))..((.....)).....
 AAAAAAAAAAAAAACCAAAAGGAAACCAAGGAAAACCAAGCAAAAGCAAAAGCAAGCAAGCAAAA
 GCAAAGGAAGCAAAAGCAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAACCAAAAGGAAAGGAAAGCAAAAGCAAGCAAAACCAAAAGGAAAGCAACCAAAA
 GGAAACCAAGCAAAAGCAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAACCGAAAGGAAAGCAAAAGCAAAAGCAAGGAAAGGAAAACCAACCAACCGAAA
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 GCAAACCAAGGAAAACCAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAGGAAAACCAACCAAAAGCAAAAGCAAGCAAAACCAAAAGGAAAGCAAGGAAAA
 CCAAAGGAAGCAAAAGCAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAGGAAAACCAAGCAAAACCAAAAGGAACGAAACGAAAACGAAACGAAGCAAAA
 GCAAAGCAACCAAAAGGAAAAAAAAAAAAAAAAAAAAA
 AAAAAGAAAAAAGCGGAGGCAAAGGAAACCAAAAGGAAGCGAACCGAGAGGAUAGCAAGCGCA
 GGCAAACCAAGGAAAACCAAAAAAAAAAAAAAUAAAAAGAAA
 AAUAAAAAAGAGGGAAACCAAGCAAAAGGGGGACCAAGGAAAGGGAAACCAAGCCAAGCGAA
 AGCAAAGCAAGCGAUAGCAAAAAAAAAAAAAAAAAAAAAA

> 17 Six legd Turtle

....((.....))....((.....))....((.....))....((.....))....((.....))....((.....))....
 AAAAACC AAAACCAAAAGGAAAACCAAAAGGAAAACCAAAAGGAAAAGCAAAAGCAAAACCAAA
 AGGAAAACCAAAAGGAAAAGGAAAAAAAAAAAAAAAAAAAA
 AAAAACC AAAACCAAAAGGAAAAGGAAAACCAAAAGCAAAAGCAAAAGCAAAAGCAAAAGCAAA
 AGCAAAAGCAAAAGCAAAAGGAAAAAAAAAAAAAAAAAAAA
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 AGCAAAAGGAAAACCAAAGCAAAAAAAAAAAAAAAAAAAAA
 AAAAAGCAAAAGCAAAAGCAAAAGCAAAAGCAAAAGCAAAAGCAAAAGCAAAAGGAAA
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 AGGAAAAGGAAAACCAAACCAAGAAAAAAAAAAAAAAAAAAAA
 AUAAAGCAAAAGGAAAACCAAACCAAAGGAAAACCAAAGGAAAAGGAAAACCAAACCAA
 AGGAAAACCAAAGGAAAAGCAAAAAAAAAAAAAAAAAAAAA

> 18 snoRNA SNORD64

((((((.....(((.....(((.....)))))).....))).....)))
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 GGG
 CCGCCCAAAAAGCCAACCGAAAGGGCGAAAAAAAAAAAAACGCCAAAACGGAAGGCAAGGG
 CGG
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 CGG
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 CGG
 CGGCCCAAAAACGCAAAAGGGAAGGCGGAAAAAAAAAAAAACCGCCAACCCAAGCGAAGGG
 CCG
 GCCGCCAAAAGCCAAGGGAAACGCGGAAAAAAAAAAAAACCGCGAAAACCCAAGGCAAGGC
 GGC
 GCCGCCAAAAGGCAAAACCCAAGGCGCAAAAAAAAAAAAAAGCGCCAAGGGAAGCCAAGGC
 GGC
 GCCGGGAAAAAGCCAAGGCCAAACGCGGAAAAAAAAAAAAACCGCGAAAAGGCAAGGCAACCC
 GGC
 GCGCGCAAAAAGCCAAGGCCAAAGGGCCAAAAAAAAAAAAAGGCCAAAAGGCAAGGCAAGCG
 CGC
 GGGGCGAAAAACCGAAAAGCGAAAGCGGGAAAAAAAAAAAAACCCGCAAAACGCAACGGAACGC
 CCC

> 19 Chalk Outline

.....((((.....))))).(((.....)))..((((.....))).((((.....))))).((((.....))))).
 AAAAACCCACGCGCAAAAGGACCGACGACGCAAAAGCGCCGACGCCGAAAACGAGGCGACG
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 AAAAACCCGACGCGGAAAACGAGCGAGGCACCGAAAACGGGCCAGGCGCGAAAACGACGCCACG
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 AAAAACCGCACCCCAAAAGGAGGGAGGCAGCGAAAACGCGCCAGCCGCCAAAAGGACGGCAGG

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 GCGAAAACGCAGCGCGGAAAAAAAAAAAAAAAAAAAAA
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 CCGAAAAGGGACCGGCGAAAAAAAAAAAAAAAAAAAAA
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 CGCAAAAGCGACCCGCGAAAAAAAAAAAAAAAAAAAAA
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 GCGAAAACGCAGGCCCGAAAAAAAAAAAAAAAAAAAAA
 AAAAAGCCGACGCGCAAAACGACCGAGCCACCGAAAACGGGGCACGGGGGAAAACCCACCCGACG
 GCCAAAAGGCACGCGGCAAAAAAAAAAAAAAAAAAAAAA
 AAAAAGCGGACCGGGAAAACCGACCCAGCCAAAAGGCGGGAGGGCCGAAAACGAGCCCACC
 CGGAAAACCGAGGCCGCAAAAAAAAAAAAAAAAAAAAAA

> 20 InfoRNA bulge test 9

(((((.(.(.((((((....))))))))))))))
 CCCGCCGACAGAGACGGCCCCAAAAGGGGCGCGCGCGGG
 CGCCGGGACAGAGACGGCGGGAAAACCCGCCGCCGCCGCG
 CGCCGGGAGAGAGACCCCGCAAAACGCGGGGCCCCCGCG
 CGGCGCCACACACACGCGGCCAAAAGGCCGCGGGGGGCGCC
 GCCCGGGACACACACGCCCGAAAACCGGGCGGGGCCCGGGC
 GCGCCCCACAGAGACCCGCGCAAAACGCCGGGCGGGGGCGC
 GGCCCGGAGACAGAGCCGCGCAAAAGGCCGCGCCCGGGCC
 GGGCGCGAGAGAGACGCCGCCAAAAGGCCGCGCCCCCGCGCC
 GGGCGCGAGAGAGAGGGGGCCAAAAGGCCCCCCCCCCCGCGCC
 GGGGGCGAGAGACAGGGGGCGAAAACGCCCCCGCCCGCCCC

> 21 Tilted Russian Cros

.....(((((((....))))(((((....))))(((((....))))(((((....)))))))).
 AAAAACCGGCGGCAAAAGCCGGGCGACGCGAAAACGCGGCGCGAAAACGCGCACGGCAAAAGCC
 GCGCCGCCCAAAAGGGCCCGGAAAAAAAAAAAAAAAAAAAAA
 AAAAACCGGGGCGAAAACGCCGCGCAGCCAAAAGGGCGGGGCCAAAAGGCCAGCCGAAAACGG
 CGCGCGCCCAAAAGGGCCCGGAAAAAAAAAAAAAAAAAAAAA
 AAAAACGCCCGGCAAAAGCCGGCGGAGGGCAAAAGCCCCCGGAAAACCGGGAGGCGAAAACGC
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 AAAAACGCCCGCGAAAACGGCGGGCACGCCAAAAGCGGGGCGGAAAACCGCCAGCGGAAAACCG
 CGCCCGGCGAAAACGCCGCGCAAAAAAAAAAAAAAAAAAAAAA
 AAAAACGGCGCCGAAAACGGCGGCCACCGGAAAACCGGGCCCGAAAACGGGCAGCCAAAAGGG
 CGGCCGCGCAAAAGCGCGCCGAAAAAAAAAAAAAAAAAAAAA
 AAAAACGGCGGGCAAAAGCCCGGGGACCCGAAAACGGGGGCGCAAAAGCGCCACCGCAAAAGCG
 GCCCCCCCCAAAAGGGGGCCGAAAAAAAAAAAAAAAAAAAAA
 AAAAAGCCGCCCCAAAAGGGGGCGCACGGGAAAACCCGGGCCGAAAACGGCCAGGCCAAAAGGC
 CGCGCGCGGAAAACCGCCGCGCAAAAAAAAAAAAAAAAAAAAAA
 AAAAAGGCCCGGCAAAAGCCGGCGGAGGGGAAAACCCCGGGGAAAACCCCGAGCGGAAAACCG

```

CCCGCGGGGAAAACCCCGGCCAAAAAAAAAAAAAAAAAAAA
AAAAAGGCCGCCGAAAACGGCCCCGACGCGAAAACGCGCGCCGAAAACGGCGAGCCCCAAAAGGG
CCGGGCGGGAAAACCCGGGCCAAAAAAAAAAAAAAAAAAAA
AAAAAGGCCGGGGCAAAGCCCGCGGAGGCGAAAACGCGCCCCAAAAGGGGACCCGAAAACGG
GCCGCCGCCAAAAGGCGCGCCAAAAAAAAAAAAAAAAAAAA

```

> 22 This is ACTUALLY Small And Easy 6

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CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
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CCCC

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> 23 Shortie 4

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((....)).((....))
CCAAAAGGACCGAAAGG
GCAAAAGCACCGAAAGG
GCAAAAGCAGCGAAAGC
GCAAGAGCACCGAAAGG
GCGAAGGCAGGGAAACC
GGAAAACCAACCGAAAGG
GGAAAACCAGCGAAAGC
GGAAAACCAGGGAAACC

```

> 24 Shape Test

```

....(-(....((((.....))))).(((....((((.....))))).(((.....))))).))))).).....
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AGCGCAGCGCCCAAGGGGGGAAAAAAAAAAAAAAAAAAAA
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UCGCUACGGUGCAACCGGGCAAAAAAAAAAAAAAAAAAAAA
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GGGCCAGCCGCCAAGCGCGCAAAAAAAAAAAAAAAAAAAAA
AAAAAGGGGGCAAGGCGGAAAAAAAAACCGCCAAGCGAGCCAGGGGCUAGGUGCCUCAGACCGG
AAGGUCAGGCCGCAAGCCCGCAAAAAAAAAAAAAAAAAAAAA
AGAAAGUGCGGAACCACGAAAAAAAAACGUGGAAGGGACGGAGGCGGGAAAACCGCCAGGGGAG

```

AACCCACCGCCCAACCGCUCAAAAAAAAAAAAAAGUAUAAA
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 AGCGCAGCGGGGAACGCCGCAAAAAUAAAAAAAAAAAAAA
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 AUCGUAGCCCCGAACGGGUGAAAAAAUAAGAGAAAAAAGA

> 25 The Ministry

((((.....(((.....(((.....(((.....(((.....)))))).)))))).))))))
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> 26 stickshift

..((((((((.....)))))))).
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 AAGCGGGGCGAAAAACGACCCCGCAA
 AAGGCGCCGCAAAAAGCAGGCCGCAA
 AAGGGCCCCGAAAAACGAGGGCCCAA
 AAGGGGGCCCAAAAAGGAGCCCCCAA

> 27 U

.....((((((.(.((.(.((((((((.....)))))))))))))))))).....
 AAAAACCGCCAGAGACCAGACCCCGGCGGAAAAACCGCCGGGGCGGCCGGCGGAAAAA
 AAAAACCGCCAGAGAGCACACGCCCGGCAAAAAGCCGGGGCGGGGCCCGGCGGAAAAA
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 AAAAAGGCGGAGACACCAGAGGGCGCGCGAAAACGCGCGCCCCGGGCCCGCCAAAAA
 AAAAAGGGGCAGAGAGCACACGGCCGCCGAAAAACGGCGGCCGGGCCCGCCCCAAAAA

> 28 Still Life (Sunflower In A Vase)

AACACCGCAACCCCGCAAAAAAGCGGAAACCGCCAAAGGCGGCAAAAGGCCCAAAAGGCCCAACGAGGCGCA
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 AACCCGCAAAAAGCGGGAACCGGCAAAAAGCGGGAACCCGGAACCGGGAGGCCAAA

> 29 Quasispecies 2-2 Loop Challenge

.....(((((((((((((.....))))))..))))).((((((.....))))..)))))).....

AAAAACC GCGCGGAGGCCUAAAGGCCGGGCGCAAGGGAACAUAGGGCCCUAGGGCGGGGAGG
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 CCCCCCGCGGCCAGCCCCAUUAGGGGAAGGCCAGGGAAUGACACUGUCCACUAGAGCAAACC
 GGAAAGGUAAGAGCUAGGCGGCCCCCCCCCCCCCCCCCCCC
 CCCCCCGCGGGCAACGGCGAAAGCCGAAGCCCAGACGGAGAGACGACGUCAUGGCAGGAACAC
 GUAUUGUGAGCGAGCCAGCCGCCCCCCCCCCCCCCCCCCCC

> 30 Corner bulge training

.(((((((((((((.....))))))..))))).((((((.....))))..)))))).....

ACGCCGCGCCGCAAAGCGGCAAAAGCGGCGA

> 35 Iron Cross

.(((.((((...(((.((((...))).(((((...))).))...(((.((((...))).(((((...))).))...(((.((((...))).(((((...))).))...))).(((((...))).))..

ACCCACGCAAAGAGGGGCAAAGCCAGGGAAGACCCACUCAAGGCCACCCAAAAGGGACCGAAAC
GGAGGCAAACCCAGCCAUACGGCAGCCAAAGGCAGGGAUAGCGACGGAAACCGAGGGAA
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GCAGUCAAAACCCAGGCGAGAGCCAGACAAAGUCAGGGAGAGCGAGCCAAAGGCACGGAA
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CGACCCAAACGGAGCCCAAGGGCAGGCAAAGCCACCGAAAAGCGACCGAAAACGGACGGCC
CCGCACGCAAACCCACGCAAAGCGACCGGAACCCGAGGGAAAGGCAGGCAAAGCCACCGAAAC
GGAGCCAAAGGGGGCCAAAGAGGCAGACAUAGUCACCCAAAGCGAGCCAAAGGCAGCGCC
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GCAGGCAUAGCGACCGAAAACGGACGGAACCCGACGCAAACCCAGCGAUACGCAGGCCC
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GCAGCCAAACCCAGGCGAAGGCCACCCAAUGGGAGGGAAAGCCAGCCACAGGCACGCCC

> 36 loops and stems

.....(((((((...(((((((...(((((((.....(((((((.....))))))....))))....(((((((.....))))....))))....(((((((.....))))....))))....((.....))....)))))).
....

AAAAACCGCCGCAAACGCCAAAGGGGAAAGGGCAAAAAAAAAAACGGCCAAAAAAAAAAAAAGGCCG
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> 39 Adenine

CCCCGAGGGGCCAGGGGGGAGGGGGCGAGGGGCCGAGGGGGCGAAAAACCGGCGGA
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GGGAAACGGGGACCGCCCCAAAAGGGCCCCAAAACCGCCGAAAACCCCC

$$\dots(((((((\dots)))(((((((\dots))))))))))\dots$$

83

> 41 Shortie 6

((....)).((....)).((....)).((....))
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CCAAAAGGAGGAAAACCAGGAGAACCAGCGAAAGC
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GGAAAACCAGCGAAAGCACCAAAAAGGACCGAAAGG
GGAAAACCAGGAAAACCAGCGAAAGCAGCGAAAGC
GGGGCACCGAGGAAAACCAGCAAGAGCAGCGCGAGC

> 42 Runner

.....(((((((.....((((.....)))))))))...(((.....((((.....))))))...((((.....))))...(((.....((((.....))))))...))....
AAAAACCCCAGGCCAAAAACCCGAAACGGGAGGCCAAACGCAAGGGGGGAAACCCAAACCCCGC
CCGAAACGGAAAGCGAGCGAAACCCGAAAGGCCAAAAGCCACGGAGGGGAAAAA
AAAAACCCCAGGGCAAAAAGGCGAAACGCCAGCCCAAAACCCAACGGGCCAAAGGCCAAACCCGGG
CGCAAAGCGAAACCCAGGGAAACCGAAACGGAAACCGACGGAGGGGAAAAA
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CCGAAACGGAAAGGCAGGCCAAACCGAAAGGCCAAAAGCCACGGACGGGAAAAA
AAAAACGGGACCCGAAAAACCGGAAACCGGACGGGAAAGCCAAGCCCGGAAACCGAAAGGCGGC
GCGAAACGCAAAGCCAGGCCAAAGGGAAAGCGAAACGCACCCACCCGAAAAA
AAAAACGGGAGCGGAAAAAGCGCAAAGCGCACCGCAAAGCCAACGCCCCAAAGGGAAAGCGGGC
GCGAAACGCAAAGCCAGGCCAAACGCAAACCCAAAAGGGAGCGACCCGAAAAA
AAAAAGCGGAGGCGAAAAAGGGGAAACCCACGCCAAAGCCAAGGGGGGAAACCCAAACCCGCG
CCGAAACGGAAACGCAGGCCAAAGGGAAACGGAAACCGACCCACCGCAAAAAA
AAAAAGGCCACCGCAAAAAGCCCAAAGGGCAGCGGAAAGCCAAGCCGCGAAACGCAAAGGCCCC
CGCAAAGCGAAAGGGAGGCCAAAGGCCAAACCGAAAACGGAGCCAGGCCAAAAA
AAAAAGGCCAGGCGAAAAAGGCCAAAGGCCACGCCAAAGGGAAGCGCCGAAACGGAAACGCCCG
GGCAAAGCCAACCGACCCAAAGGGGAAAGCCAAAAGGCACCCAGGCCAAAAA
AAAAAGGCGACGGGAAAAAGGGGAAACCCACCCGAAACCCAACCCGCCAAAGGCCAAAGGGGCC
GCGAAACGCAAAGGCAGGGAAACCGAAACCCAAAAGGGACGGACGCCAAAAA
AAAAAGGGCACCCCAAAAACCGGAAACCGGAGGGGAAACGCAACCCGCCAAAGGCCAAAGGGCCC
GGGAAACCCAAGGGAGCGAAACGGAAAGGGAAACCCACCGAGCCCAAAAAA

> 43 Recoil

.....(((((((.....((((.....)))))))))...(((.....((((.....))))))...((((.....))))...(((.....((((.....))))))...))....
AAAAACCCCGAACCAACGAAGGCAACCGAAGGAACGAAACGACCACGGAGCCACGAGGACGGGG
AAAAAAAAAAAAAAAAAAAAA
AAAAACCGCGAACCAACGAACGGAAGCGAAGCAAGCAAAGCAGCACGCACCGACGAGGACGCGG
AAAAAAAAAAAAAAAAAAAAA
AAAAACCGCGAACCAAGCAAGCGAACGCAACGAACGAAACGACGAGCGACGCAGCAGGACGCGG
AAAAAAAAAAAAAAAAAAAAA
AAAAACCGGCAACCAACGAACGGAAGGAACGAAACGACCACCGACCGAGGAGGAGCCGG
AAAAAAAAAAAAAAAAAAAAA

AAAAAACGCGGAAGGAAGGAAGGGAAGCCAACGAAGCAAAGCACGAGGCACCCACCACCACCGCG
 AAAAAAAAAAAAAAAAAAAAAA
 AAAAAAGCCGAAGGAACCAAGCCAACCGAACGAAGCAAAGCACGACGGAGGCAGGACCACGGGC
 AAAAAAAAAAAAAAAAAAAAAA
 AAAAAAGCGCAAGCAAGCAAGGCAACCCAAGCAAGCAAAGCAGCAGGGAGCCAGCAGCAGCCGC
 AAAAAAAAAAAAAAAAAAAAAA
 AAAAAAGGCGCAAGCAACCAAGCCAACGGAACCAAGCAAAGCAGGACCGAGGCAGGAGCAGCGCC
 AAAAAAAAAAAAAAAAAAAAAA
 AAAAAAGGGCGAAGCAAGGAAGGGAAGGCAAGGAACGAAACGACCAGCCACCCACCAGCACGCCC
 AAAAAAAAAAAAAAAAAAAAAA
 AAAAAAGGGGGAAGGAAGGAACGCAACCGAACCAAGCAAAGCAGGACGGAGCGACCACCACCCCC
 AAAAAAAAAAAAAAAAAAAAAA

AAAAACCCACGGCGAAAACGACCGGGGACCAAAAGGCCACGGGAAAAA
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AAAAACCGAGGCCGAAAACGAGCCGCGAGGAAAACCCGCACGGAAAAA
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AAAAAGCCAGCCGCAAAAGCAGGCCGGAGCAAAAGCCCGAGGCAAAAAA
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AAAAAGGGAGCGCCAAAAGGACGCGGCAGGAAAACCGCCACCCAAAAA
AAAAAGGGAGGCGGAAAACGAGCCGGCACGAAAACGGCCACCCAAAAA

$$((((((((....))))))((((....))))))((((....))))((((....)))))))).$$

> 46 Triple Y

AAAAACCCCGCGGCGGGGAAAACCCGGCCGAAAACGGCCCGCGCCCGCGGAAAACCGCGCCCAA
 AGGGCGGGCGGGGAAAAAAAAAAAAAAAAAAAA
 AAAAACCCGCGCGCGGGCAAAGCCCGCGGAAAACGCCGCGGGCGGGCCAAAAGGCCGCGGAAA
 ACCGCCCGCGCGGAAAAAAAAAAAAAAAAAAAA
 AAAAACCCGGGGGCCCCGAAAACGGGCCGAAAAGCGGGCCCCGCCGGGAAAACCCCGGGCAA

GGAGCCCAAAGGGCGCGCAAAAAAAAAAAAAAAAAAAAAA
 AAAAAGGCGCCCCAAAGGGGACGGCCCGGAAACCGGAACGCCAAAGGCGAAGCCCAAAGGGGCGC
 CGAGCGCAAAGCGCCGCCAAAAAAAAAAAAAAAAAAAAA
 AAAAAGGCGGCGGAAACCGCAGGCCCGCCAAAGGCGAAGCGGAAACCGCAACCGGAAACCGGGG
 CCAGGGCAAAGCCCCGCCAAAAAAAAAAAAAAAAAAAAA

> 49 Kudzu

.....(((.(.((((((((((...)))))).))))((((((...)).))))..(((...))...)).)..)).....
 AAAAACCCAGGACACGGCCAGCCCACCAGAGGGGAGCGGGGGCCGAAACGAGCCCAAGCCAAAG
 GCAAACCGAGAACAGGGAAAAAAAAAAAAAAAAAAAAA
 AAAAACCGACGAGACGGCGACCCAGCAAAGCGGAGGCGGGAGGCAAAGCACUCCAACCCAAAG
 GGAAACCGACAAGACGGAAAAAAAAAAAAAAAAAAAAA
 AAAAACCGAGAAGAGCAGCACGGCACCAAAGGGCACGGCGCCGGGAAACCACGGCAAGGGAAAC
 CCAAUUGCACAGCACGGAAAAAAAAAAAAAAAAAAAAA
 AAAAACGCACAGCAGGCGCAGGGGAGCAAAGCCCACCGCCCCGGGAAACCACGGGAACGGAAAC
 CGAAUGCCAGAAGAGCGAAAAAAAAAAAAAAAAAAAAA
 AAAAACGGAGAACAGCCGGACCCGACCAAAGGCGAGGCCCCCCCGAAACGAGGGGAAGCGAAAC
 GCAAAGGCAGGACACCGAAAAAAAAUAAAAAAAAAAGAA
 AAAAAGCCAGAGGACCGGCACGCCACCAAAGGGGACGGCGGGGAAACCACGCCAACCCAAAG
 GGAAACCGACAACAGGCAAAAAAAAAAAAAAAAAAAAAA
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 CGAAACCGACGAGACGCAAAAAAAAAAAAAAAAAAAAAA
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 GCAAAGCGGGGACACGCAAAAAAAAAAAAAAAAAAAAAA
 AAAAAGGCGCAACACGCGCACCGGACGAAACGCCAGGGCGGCGCGAAACGACGCCAACGGAAAC
 CGAAAGCGAGAAGGGGCCAAAAAAAAAAAAAAAAAAAAA
 AAAAAGGGACGACAGCCGACGCCACGAAACGGGAGCGCGGGGCGAAACGACCCCAAGCCAAAG
 GCAAAGGCAGAAGACCCAAAAAAAAAAAAAAAAAAAAA

> 50 "1,2,3and4bulges"

.....(((.(.((((.....))....)).(((.....)))).)).....(((.(.((((.....))..)).(((.....)))).)..)).....
 AAAAACCCAGCCCCAUUGGAAAAGGCAGCCAAAAGGCAGGAGGAAAAAGCGCAGGGCGAUAG
 CAAACCAGGGAAAACCCAGCAAGCAAAAAAAAAAAAAAAAAAAAAA
 AAAAAGGGGAGGCGGGGGACCAAUAGCCGGCCAAAAGGCACCACCAAGAAGCGCAGGCCGUAA
 GGAGACCACCCAAAAGGGAGCAAGCAAUAGGAAAAGUAAGAAAGG
 AAAGAGGGGAGGCGCGAAAGCAAAAGCCACCGAAAACGGACCACCAGAAAGCGCAGGGCGAGA
 GCAAACCAGGGAAAACCCAGCAAGCAAAAAAAAAAUAAAAAAAAAU
 AAUAGGCCAGCGGCGGAAGCAAAACGCACCCAAAAGGGAGGACCAUAAAGCCCAGCGGAAAUC
 CAAAGCACCCAUAGGGAGGAAGCAAAAAAAGAAUAAAAAAAAA
 AAUAACCCAGCCCCAAAAGGAUAAGGCACCGAAAACGGAGGAGGAAAAAGCGCAGGCCGAAAG
 GAGACCACCCAUAGGGAGCAAGCAGAUUAUAAAAUUGAAAUUA
 AUAAACCCAGCCGCGAAAGCAAUAGGCAGGCGAAAGCCAGGAGGAAAAAGCGCAGGGCGAAAG
 CAAACCAGGGAAAACCCAGCAAGCAAAAAAAAAAAGAAAAUAAA
 AUGAACCCACCGCCAAAUGGAAAACGGAGGCAAAAGCCAGGAGGAAAAAGCGCAGGGCGAAAG
 CAAACCAGGUAAAGAACCAGCAAGCAAAAGAAAAAAAAUAAAGGA
 CAUAACCCACGGCCAAAAGGAAAACCGAGGCAAAUGCCAGGAGGAAAAAGCGCAGGACGAUAG

UAUACCACCGAUAAACGGAGCAAGCAUUAUUAUACAAAAAUAGAGA
UAUUAGGGCAGGAGGAAAACCAAAAUCCAGGGGGGACCCAGCACCAAAGACCGCAGGCCGAUAG
GACACCACCCAGAAGGGAGCAAGGGAAGAGAAUAAUUAUUGAUG
UGAAACCCAGCCGCGAAAGCAAAAGGCAGGCUAUUGCCAGGAGGAAAAAGCGCAGGCCGAAAG
GAAACCAGGGAUAACCCAGCAAGCAAAUUAUAAAUGAGAUAGAUUA

[illegible]

AAAACCGCGCAGCGCGC
 GCGGGGAGGGCGCAAAAGCGCCAGCGAAAACGCACGCAAAAGCGAGCCCGGAAAAACCGGGCAG
 GGAAAACCCAGGGGCCAAAAGGCCCCACGCAAAAGCGACCGAAAACGGACGGGGGAAAAACCCCC
 GAGGGAAAACCCACGGCCGAAAACGGCCGAGCCAAAAGGCACGGAAAACCGAGCCCGGAAAAACC
 GGGCACCGAAAACGGAGGCGGGAAAACCCGCCAGCGAAAACGCACCCAAAAGGGACCGCCCAA
 AGGGCGGAGGGAAAACCCAGGCCGAAAACCGGCCACCCAAAAGGGACGCAAAAGCGAGCCCGG
 AAAACCGGGCACCCCGC
 GGCCCCAGCGCCCAAAAGGGCGCAGCCAAAAGGCACCCAAAAGGGACCCCCCAAAAGGGGGGAC
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 GAGCGAAAACGCAGCGCCGAAAACGGCGCAGGGAAAACCCACCGAAAACGGAGGGGGCGAAAACG
 CCCCAGGCAAAAGCCACGCCCAAAAGGGGCGACCGAAAACGGAGGGAAAACCCAGCCGGCAAA
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 GGGCGCAGCCCCCAAAAGGGGGCACCCAAAAGGGACGGAACCCAGAGCCGCCAAAAGGCGGCAG
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 CGCGACCCAAAAGGGACCGGGGAAAACCCCGGAGGCAAAAGCCAGCCAAAAGGCAGGCCGCAAA
 AGCGGCCAGGCAAAAGCCACGCCGAAAACCGGCGAGCCAAAAGGCACGGAAAACCGAGCGCGG
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 GGGGGGACCGCCCAAAAGGGCGGAGGGAAAACCCACCGAAAACGGAGCCGGGAAAACCCGGCAC
 GCAAAAGCGACCCGGGAAAACCCGGGACGGAACCCAGCCAAAAGGGAGCGCGGAAAACCGCG
 CAGCGAAAACGCACGCCCGAAAACGGGCGACCGAAAACGGAGCGAAAACGCACCGGCGAAAACG
 CCGGAGGGAAAACCCAGGCCCAAAAGGGGGCCAGCCAAAAGGCACCCAAAAGGGACCCGCCAAA
 AGGCGGGACGGAACCCAGCGGCCAAAAGGGCCGACCGAAAACGGAGCCAAAAGGCACGCGGC
 AAAAGCCGCGACCCCCC

> 52 [RNA] Repetitious Sequences 8/10

((.....((.....)).....(((.....((.....)).....((.....)).....))).....)).....

GCGAAAAACCGAAAAAGGAAAAAGGGAAAAAGCGAAUAGCAAAAAACGAAAAACGAAAA
 ACCCAAAGAGGCAAAAA
 GCGAAAAACCGAAGUAGGAUGAAAGGGAGAAGAGCAAAAUAGCAAAGAAGGAAAAUACCAGAA
 UACCCAUAGAGGCAAAAG
 GCGAAAAACCGAUUAAGGAAAAAGCCAAAAAGGGGGGAACCAAAAAACCGGGAAAGGAAUA
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 AGGCAAAAAAGGCAAAAA
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 AGGGA AAAAGGCAAAAU
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 GCGGAAGACCAAUAAAGGAAAAUAGCCAUAAAGAGCAAAAAAGCAAAAUACCGAAGAAGGAAUAA

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[illegible]

AAAAAAAAAAGCAAAAAAAAAAGGAAAAAAAAAGAAACCAAAAAAAAAAGCGAAAAAAAAACGAAAAAAAAAGC
 AAAAAAAAAAGGAAAAAAAAAGCAAAAAAAAAACCAAAAAAAAAAGGAAAAAAAAACGAAAAAAAAA
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 AACCAAAAAAAAAAGAGGAAAAAAAAAGCAAAAAAAAAAGGAAAAAAAAAGCAAAAAAAAAACCAAAA
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 AAAAAACCAAAAAAAAAAGCAAAAAAAAAACGAAAAAAAAAGCAGAAAAAAGGAAAAAAAAACCA
 AAAAAAAGCAAAAAA

AAAAAAAAAAGGAAAAAAAAAACCAAAAAAAAAAGGAAAAAAAAAGCAAAAAAAAAACCAAAAAAAAAAGG
 AAAAAAAAAAGGAAAAAAAAAACCAAAAAAAAAACCAAAAAAAAAAGCAAAAAAAAA
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 AAGGAAAAAAAAACCAAAAAAAAAACCAAAAAAAAAACCAAAAAAAAAACCAAAAAAAAAACGAAAA
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 AAAAAAACCAAAAAA

AAAAAAAAAAGGAAAAAAAAAACCAAAAAAAAAAGGAAAAAAAAAGGAAAAAAAAAGCAAAAAAAAAACG
 AAAAAAAAAAGCAAAAAAAAAAACCAAAAAAAAAAGCAAAAAAAAAACGAAAAAAAAAGCAAAAAAAAA
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 AAAAGCAAAAAAAAAACCAAAAAAAAAAGCAAAAAAAAAACGAAAAAAAAAGCAAAAAAAAAAGGAAA
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 AAAAAAACCAAAAAA

90

CCAAAAAAAAAACCAAAAAAAAAACCAAAAAAAAAACGAAAAAAAAAGCAAAAAAAAAAGGAAAAAAAA
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 AACCAAAAAAAAAAGGAAAAAAAAACGAAAAAAAAAGGAAAAAAAAAGCAAAAAAAAAAGGAAAAA
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 AAAAAAGGAAAAAAAAAGCAAAAAAAAAACCAAAAAAAAAAGCAAAAAAAAAAGGAAAAAAAAACCA
 AAAAAAACCAAAAAA
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 AAAAAAGGAAAAAAAAACGAAAAAAAAACCAAAAAAAAAAGCAAAAAAAAAACCAAAAAAAAA
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 AAGGAAAAAAAAACCAAAAAAAAAAGCAAAAAAAAAACCAAAAAAAAAACGAAAAAAAAAGGAAAAA
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 AAAAAACCAAAAAAAAAAGCAAAAAAAAAAGGAAAAAAAAAGCAAAAAAAAAACCAAAAAAAAAACCA
 AAAAAAACCAAAAAA
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 GAAAUAGCAAAAAAAAAAGGAAAAAAAAACCAAAAAAAAAACCAAAAAAGAGCAAAAAAAAAACCA
 AAAGAAAACCAAGAAA
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 AAAAGGUAAAAAAAGGAAAAUAAACGAAAAGAAAGGAAAAAAAAAGGAAAAAAAAACCAA
 AGAAAAGGAAAAAAAAACCAAAAAAAAAAGCAAGAAAAAGGAAAAAAAAAGCAAAAAAAAAACCA
 GAAAAAGGAAAAA

> 54 7 multiloop

(((((((((....))))))((((((....))))))((((((....))))))((((((....))))))((((((....))))))((((((....)))))))))
 CGCCGGGCCAAAAGGCCCGCGCAAAAGCGCGCGCGCAAAAGCGCGCGGCCAAAAGGCGCGCGG
 CAAAAGCCGCGGGGCAAAAGCCCCGCGG
 CGGCGCCCGAAAACGGGCGGGGAAAACCCCGGCGCGAAAACCGGCGGCGGAAAACGGCGCGCG
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 CGGCGGCCCAAAAGGGCCCGGCAAAAGGCCGGGGCAAAAGCCCCGGGCAAAAGGCCGGGCG
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 CGGGGGCGGAAAACCGCGCGGGAAAACCCGCGCGCGAAAACGCGCGCGGAAAACCGCGCGCGG
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 GCGCGCCCCAAAAGGGGCGGGGCAAAAGCCCCGCGCAAAAGGCGCCCGGCAAAAGCCGGGGGC

CCCCGGGGCGGACCCCGAACGCGGAAAAACGCGCCAACCGCGAAACGCGGAAGCCGGGACGCGCG
GCCGGCCCAAAAGGGCCCGCGCGGAAGGGAACCCAGGGGGCGGCAAAAGCCGCCCCAAC
CCGCAAAAGCGGGACCCGGCACCGCGACGCGGAGGCGCGAAACCCGCCCCGAAAAACGGAGCGGG
AACCGGGCCCGCGCCCGCGGGCGCGCAAAAGCGCCCGCCGCGGGACGCGGCCCGGAAACGCGCA
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AAA
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GGCCGGCCCAAAAGGGCCGGCCGGGGCAAGGGAAAACCCACCCGGGCGGAAAAACCGCCCGGGAA
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GAACGGCGCGCGGGCCGGCGGCGCCGAAAAACCGGCGCCCGCGCACCGCGCGCCGAAACGCGG
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GAAA
GCCCCCGCGGGACGCCCAAGGCGGAAAAACCGCGCAAGGGCCAAACGCCCAAGGCCCCACCCGGG
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ACCGGACGCAGCCAAAAGGCGCGCCCGGACCGGCCCGGAAAAACCGGGACCGGACCCGACGGAGGG
CAAA
GCCGCCCCCGGCACGCGGAAGCCGGAAGAGGCGGCAACGGCCAAACGCCGAACGCGCCACGGGCC
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GCCGAAAACGGCCAGGCGCGACGGCGAGGCCGAGCCGCCAAACCCCGCCGAAAAACGGACGGGG
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CGCGAGCGACCGAAAAACGGCGCCGCGAGGCGGCGCCAAAGGCGCACGCCAGCCGAGGGACGGC
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GCGGAAAAACCGCCACGGCGGAGCGGGAGCCCGACGCGCCAAACCGCGGCGAAAAACGCACGCGG
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CCGACCCACGGAACCGGGGCCGGACGGCCCCGCAAAAGCGGGAGCCGAGGCGAGCGAGCGC
AAA
GCGCCGGCCCCAGGGGCAAGGCCGAAAAGCCGGCAAGCGCGAAAGCGGCAAGCGGGGAGGCC
GGGCGCGGAAAAACCGCGGCCCGGGCCAACCGAAAAACGGAGGGCCCCCAAAAGGGGGGCCAA

CCGCGAAAAACGCGGACCCCGCAGCCGCACGCGCAGCCGGCAAAGCGGGGCCAAAAAGGCACCCG
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ACCCGAGCGAGGGAAAAACCCCGCCGGGAGGGGCGCGGAAAAACCGCGACCCAGGGGACCGAGCG
CAAA

GGCGCGCGGCGACCCCGAACCCGCAAAAGGGGGCAACCCCGAAACCCCGAACCCGCCAGGGCCC
GGCCGCGGAAAAACCGCGGCCCGGGCCCAACCCAAAAGGGACCGGCCGGGAAAAACCCGGCCGGAAG
CCCCAAAAGGGGCGAGCGGGACGGGGACGGGGAGCCCCAAACCCGCCCGAAAAACGGAGCGGG
AACCGCCGGCGGGGCCCGCGGGCCGGAACCCGGCCCGCGGCCACCGCCGGCGGAAGGGCCA
AAAAAGGCCCCCGCCGCCGCAAAAGCGGCGGCGGAAACGGGAAAAACCCGAAGCGGGAAACGGGGA
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AAA

GGGCCGGGCCGACGGCGAAGCGCCAAAACCGGGCAAGGGCGAAAGGGGCAACGGGGGACGCGG
GCCGCCGCAAAAAGCCGGCGGCCCGCAACCGAAAAACGGAGCGGGCGGCAAAAAGCCGCCCGCAA
GGGCGAAAAACGCCACCCCCGAGCCCCACGCCAGCCCGGAAACGCGGGGCAAAAAGCCACCGC
GAACGGCCGGCCCCGCGGGGCCGAGGCCCGCCCGCCGAGGGCCGGCCGAAAGCCCC
AAAAAAGGGGCGGGCGGCCCAAAAGGGGCCGCCAAAGGGGAAAAACCCAAGGCGCAACGCCG
AGGCCACCGAGGGAAAAACCCCGGGGCCACGGGGGCGCAAAAGCGCCACCCGACGGCACCGAGCC
CAAA

> 57 multilooping fun

((((.(.(((.(....)).(....)).)).).(.)).))

GCCAGGGCCAGCAGAAGCAGCGAGAGCAGGAACACUACGGGGGC

GGCAGGACCAGCGGCAGCAGCGACAGCAGGGACACUACGGGGCC

> 58 Multiloop...

((((((((((((....))).((((....))).((((....))).((((....))).((((....))).))))).((((.....))))(((((....))))))

CCCCAGCGCAGGGAAAAACCCAGCCAAAAGGCACGGAAAAACCGAGCGAAAAACGCACGCAAAAAGCG
AGCCAAAAGGCAGCGCACCCGCCAAAAAAGGCAGGCCGAAAAACGGGGGG
CCCGACCGCAGCCAAAAGGCAGCCAAAAGGCACCCAAAAGGGACGGAAAAACCGAGCGAAAAACGC
ACGCAAAAAGCGAGCGGAGCGCCAAAAAAGGCAGCGGCAAAAAGCCCGGG
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ACCCAAAAGGGACGCGACGCGCAAAAAAGCGCGGGCAAAAAGCCCCGG
CGCCAGCCCAGCGAAAAACGCACGCAAAAAGCGAGCCAAAAGGCAGGCAAAAAGCCACCCAAAAGGG
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AGCGAAAAACGCACCCCAGGGGGAAAAAACCCTCCCGAAAAACGGGGCG
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ACCGAAAAACGGACGGCAGGGCGAAAAAACGCCCCCGAAAAACCGCGCG
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AGCCAAAAGGCACGCGACCGGGAAAAAACCCTGCCCAAAAAGGGGCGC
GCGGAGGCGACGAAAAACCGAGGCAAAAAGCCAGGCAAAAAGCCACCCAAAAGGGACCCAAAAGGG
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GGCGACCGGACGCAAAAGCGAGCCAAAAGGCACCCAAAAGGGACGGAAAACCGAGCCAAAAGGC
ACCGAAAACCGACCGGAGCGGGAAAAAACCCGCCCAAAAGGGCGCC

> 59 hard Y

.....(((((((.....)))))).....)

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AAAA
AAAAACCCCGCGUCAGGCUUAUAAGCCUGGUCGGGGCGCCGGCCAAAAGGCCGGCGCCGGGGA
AAAA
AAAAACCGCCGCGUUGCUUCUCAUGAAGCGGUCCGGGGGAGGGGCUCAUGCCCCUCCCCGCGGA
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AAAAAGCCUCGCGUAGUCGCUUUUGCGACUGUCCGAUAAAGAUUACCCCUAAUUUUUAUAGGCA
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CCCCCGGCAGGCGUGGUUGAGGUCUUGGCCGUGCCAGAUGCCGUAAGUAUAUGGCGUCUUGCCC
CCCC
CCCCCGGUCCGCGUAGUAUUCAGCGAUACUGUCCGGCCGAUCCCCAAAAGGGGGUCGGCGACCC
CCCC
CCCCCUCGAGGCGUGAAGUGAGCGCAUUUCGUCCCGCAUCGCGGCGUCAGUUGCGAUGCUCGAC
CCCC

> 60 Mat - Elements & Sections

.....(((((((.....)))))).....)

AAAAACUCGAGUAAGAAGCCGCUCGCCGGGCGUCGUGUGGGCGGAAGCUGGUCUGACCAUGGG
UGUUAUGGGGCUACGAUCACGAGAAAAA
AAAAAGGCAAGGAACGCUGGUCAGGACACCAUGCUUGUGGCAAAAAUGCGGUCAGCGGCGCGUC
CAAUAGUCCAGGGGAACAUGCCAAAAA
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AAUAAGCGAGGAGGAGGGUGGAAAAA
AAAAAUCCUAGUAAGACGCGAGACAGCGGGUGGCGUGUGGGAUUGUUCUGGUCCGCCAUGGC
UGAAAACCCGCGACGAUCAAGGAAAAA
CCCCCGCCAGGAACAGAGCGCGUGUCGGGCGCCGUCCCUUCAAAAGAAUGUGUGGCCAUGGAC
AGAUAGGGCUCAGGAACAGGGCCCCCCCCCCCCCCCC
CCCCCUAGCGCGAACGAACCACAAACUGGGCGGAGUCCCGGCAGAAAGCCAGUGUCCCAUGAGU
UAUAAGCGGUUGGAAAGAGCUACCCCCCCCCCCCCCCCC
UAAAAGCGGGAUAGGACGCAGGAAGCCGGGUGCGGUCCGGCCGAAGGGUGGUGUCGCCAUGGG
CUCAUACGUGUGACGAUUGCCGCAAAAAAAGAUGGGAAGAAGA

> 61 Chicken feet

.....(((((((.....)))))).....)

AAAAACACCAGGAAACCAGCAAAAGCAAAGGGGAGGACCAGCAUAGCAGCGAAAGCAGAGGCC

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 AAAAA

$$.(((.(((.(((.(((..(((..(((.(...))..))..))..))..))....)).$$

> 63 Fractal star x5

[illegible]

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> 64 Crop circle 2

((...(((.....((.....((.....)).....)).....)).....)).....))....

> 65 Branching Loop

.((((.....))(((.....)))..))).....

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CGGCUGGAAUAGAACGCACACUCGUGCAUGGCCUAAAAAC
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> 66 Bug 38

.(((.....((.....((.....)).....)).....)).

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AGCAUCAUCGGGCGCAGAGGGCAGAAGGAAUAAGCA
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GGCACCACGAGACGCUAAGGGUACGGAGGAAUAGCG
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GGCAUCACGGGGCGCAGGGGGCACGAGGAAAUAGCG
GGCAUGGGCGAGCGCAAAGGGCAGCAACAAAGAGCG
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> 67 Simple Single Bond

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[illegible][illegible]

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GGAAGCCA

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99

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.....((((.....((((..(.....(((.....))))....).....))))).))

103

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> 83 Fractal 3

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> 92 Mutated chicken feet

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> 98 Bullseye

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