DNAI Analysis *#4*

Dear Patient,
We hope this report finds you in good health. The purpose of this correspondence is to communicate the findings of the genetic analysis conducted by the DNAI research team using artificial intelligence (AI). Your participation in this study has been invaluable, contributing significantly to the progress of genetic research.

INTRODUCTION:
The DNAI research team, in collaboration with cutting-edge technology experts, has employed a state-of-the-art machine learning model to conduct a comprehensive analysis of your genetic information. The primary objective was to identify potential genetic anomalies and assess the risk of specific genetic diseases.

RESULTS:
Following an extensive examination, the outcomes of the genetic analysis are that you have been diagnosed with **lactose intolerance** which means as follows:

- Genetic Markers: The C/T-13910 SNP in the MCM6 gene is associated with lactase persistence, allowing continued lactase production into adulthood. The C/T-13910 SNP in the MCM6 gene, with the T allele, is linked to lactase non-persistence, resulting in reduced lactase production after childhood.
- Risk Factors: Genetic factors, such as the C/T-13910 SNP in the MCM6 gene, play a role in determining an individual's susceptibility to lactose intolerance. Lactose intolerance is more commonly observed in certain ethnic groups, including people of African, Asian, Native American, and Hispanic descent. Aging is a significant risk factor, as the production of lactase tends to decrease naturally after childhood, making adults more prone to lactose intolerance. Gastrointestinal disorders like celiac disease, Crohn's disease, and irritable bowel syndrome can elevate the risk of developing lactose intolerance. Infections or injuries to the digestive system may lead to a temporary reduction in lactase production, contributing to lactose intolerance. Certain medical treatments, such as chemotherapy or radiation therapy, can impact the digestive system and increase the risk of lactose intolerance. Some medications, especially those affecting the gastrointestinal system, may interfere with lactose digestion and absorption, contributing to intolerance. Premature infants may have lower levels of lactase, increasing their susceptibility to lactose intolerance. A diet low in dairy products during childhood may contribute to decreased lactase production, potentially leading to lactose intolerance later in life. Changes in the composition of gut microbiota can influence lactose digestion and contribute to the development of lactose intolerance.
- Recommendations: Gradually introduce small amounts of dairy into your diet to gauge tolerance levels, starting with lactose-free or low-lactose options. Take lactase supplements before consuming dairy products to aid in the digestion of lactose and minimize discomfort. Opt for lactose-free or reduced-lactose versions of milk and dairy products, widely available in most grocery stores. Experiment with different dairy sources, such as hard cheeses or yoghurt, to identify options that are better tolerated. Monitor portion sizes when consuming dairy, as smaller amounts may be better tolerated, allowing you to enjoy dairy without discomfort. Pair dairy with other foods as part of a meal rather than consuming it on an empty stomach to improve digestion. Ensure an adequate intake of calcium by exploring non-dairy sources like leafy green vegetables, fortified plant-based milk, and calcium supplements if necessary. Consult with a registered dietitian for personalized advice on managing lactose intolerance and planning a well-balanced diet that meets your nutritional needs. Read food labels carefully to identify hidden sources of lactose in processed and packaged foods, helping you avoid unintentional consumption. Maintain a food diary to track dairy consumption and associated symptoms, aiding in the identification of specific triggers and informing dietary adjustments. Stay hydrated, especially if diarrhea is a symptom of lactose intolerance, as adequate water intake can help manage symptoms and prevent dehydration. Consider incorporating probiotics into your diet, as some individuals find relief from lactose intolerance symptoms with their use. Consult with a healthcare professional before starting any supplementation.

INTERPRETATION:
It is crucial to interpret these results with caution. The information obtained is not deterministic but provides valuable insights into potential genetic predispositions. These findings should be discussed in consultation with a healthcare professional specializing in genetics to formulate an appropriate plan for further evaluation or monitoring.

DISCUSSION:
Our team is available to discuss the results in detail, address any questions or concerns you may have, and provide guidance on the implications of the findings. We recommend scheduling a follow-up appointment with a healthcare professional to ensure a comprehensive understanding of the results and to explore any necessary next steps.

PATTERNS:
In the context of genetic analysis using artificial intelligence (AI), patterns refer to recurring trends or structures in genetic data. During the AI training phase, the model learns patterns associated with genetic disorders from a dataset. When analysing new genetic samples, the model looks for similar patterns it learned during training to predict or detect the likelihood of a genetic disorder in the individual. The accuracy of the model depends on the quality of training data and the effectiveness of the machine learning algorithms.

You will find the report of your sample in the next page, highlighted the anomalies that reconducted to the genetic

disorder. Highlighted in orange are the the bases that showing no presence of any disease, in yellow representing lactose intolerance, in light blue haemophilia and light green autism

CGGCCGATGCGCTAGCTAATTAGCTATACGTAATCGGCCGCGTACGGCCGTAATCGCGATTAGCCGTATACGCGATTAG
CATTAGCGCATCGCGGCTACGATTAGCATGCCGCGTAATGCTAATTATAATATGCGCGCGCATATCGTATAGCATTATAC
GATTATAATGCTAATATTACGATTAATATTACGCGCGCGATTATATACGATCGCGCGCGATTAATCGGCATGCGCGCATCG
GCTAATGCCGGCTAATATCGCGGCCGGCCGCGATTAATTAGCCGTAGCCGCGTACGTAATCGGCTAATGCATATCGGCG
CGCCGTATAGCTAGCTATATATACGCGCGTAATTACGTACGGCATCGATATTACGATCGATGCTACGCGTAATATATATCG
ATCGTACGTAGCGCATTATAATGCGCATCGCGTAGCTAGCATGCGCATGCCGGCCGGCCGATCGCGTAATGCGCCGAT
CGCGATGCATATATATATTAATGCGCTATACGCGCGCGATGCCGATTAGCGCGCTAATATGCGCTAATCGATGCGCCGAT
CGATTAGCTAGCTATAGCTACGATTAATATGCATCGCGATCGCGCGTAATTAGCATATCGATGCATATTATACGTATAATTA
CGTAGCTAATCGCGTAATGCTATATAATGCTAGCCGGCATTATATAATTATAATGCGCATATTAATGCGCCGGCCGCGCG
CGATGCCGGCATCGCGATTATAATCGGCATCGATTAATTACGATGCATTATATAGCCGCGGCCGCGGCTACGATGCTAAT
ATATGCATGCGCTAGCATGCGCATGCATGCCGATATTATAATTACGCGATCGATTACGGCGCATTAATTAGCATATTAATG
CCGCGTATAGCCGCGATATATCGGCATGCATCGATGCTAATATTACGTAATATCGTAGCTATATAATGCTACGATTATACG
CGTACGCGGCTACGGCGCTACGCGATATCGTACGATATATTAGCCGTAGCTAATGCTAATGCTAGCGCGCTATACGGCC
GTACGGCGCATCGTATACGTACGTATAATTAGCATTAATATGCCGCGATCGTACGGCCGCGCGTACGATGCCGATGCTA
ATATCGATGCGCGCGCCGTATAGCTAATGCCGGCCGCGCGCGATATGCATCGATTAGCGCATGCCGCGTATATAGCCG
GCTAATTACGCGGCTAGCTAGCTAATATTAATATTAATTATAGCCGATTAATTAATATGCATATGCATATTAATCGCGATGC
TAGCTATAGCTATATATAATCGGCTAATATATCGTATACGCGATTATATAATGCGCCGATATTAGCGCCGATGCGCTATAG
CATATGCGCCGCGTATACGTAGCGCATTAGCTATACGGCCGTAATGCGCATGCCGCGCGCGCGCGTATATAGCATTAAT
TAATATTAATGCCGTAGCGCGCATTAGCCGCGATTAATGCGCCGCGCGGCCGATGCGCTAATATCGATATATGCTAGCC
GGCGCGCGCTAATTAATATTACGCGTATAGCCGTAATTATAATATTAATGCATCGTAGCCGGCGCGCATGCTATAGCGCG
CATGCGCGCGCTAGCCGCGATTAGCCGTATAATCGGCATATGCATATCGATGCCGTAGCCGCGTATAGCGCGCTATATA
CGATATCGCGTACGATGCGCTAGCCGCGTAGCATCGGCTACGATATGCGCATCGCGATCGCGCGCGTACGCGTATATA
TAGCTATACGATATGCGCCGTAATGCGCCGTAATGCATATATTAATTACGCGCGGCTACGCGTACGTAATTAATGCTAGC
CGTACGATCGATCGCGTAATATGCTATAGCATGCCGCGTAATATCGCGCGTAGCATTAGCGCATATCGTACGCGGCGCT
AATCGATATCGATGCTAGCCGGCATGCGCATCGTAGCGCATTAGCTAGCGCGCTAGCGCTATAGCGCGCTACGGCGCC
GTACGTACGTAGCGCCGTAGCTAATGCGCCGATCGATATGCTACGTAATTACGGCCGGCTACGCGGCGCATCGCGTAG
CTATAGCGCTATATACGTATACGTATACGTAATCGATCGATGCATATGCTAATGCGCGCCGCGGCATCGGCATTAATCGA
TATCGTAATGCTACGCGCGTAATATGCTAGCCGATGCTAGCCGTATAGCGCTAGCCGATGCGCCGGCTATAGCCGTATA
ATGCGCATATTAATCGGCGCTAGCATGCATTAATGCCGCGATTACGGCCGCGCGCGTAATCGGCGCGCTACGTACGATC
GTACGTAATGCGCGCCGCGATATTAGCGCATATGCGCATATCGCGCGATGCATATCGCGGCCGGCCGCGGCCGCGTAC
GGCATGCATTATAGCCGCGATCGGCCGATTATATAGCTACGTATATACGTATACGTACGATGCTAATGCCGATCGTAGCC
GATATCGTATACGTACGTAGCATTACGTACGTACGCGCGATGCCGCGTAATATATGCATGCATTAATCGATCGGCCGTAG
CGCATCGCGTAGCGCGCGCCGGCCGATTATAATCGGCATATGCCGCGTATACGATTAGCATCGTAATGCTAATCGTA
TAGCATCGATTATAATTATATAGCCGCGATTAATTAGCCGGCCGCGATTAATTAATATCGATATGCTACGCGATTAGCGCT
AATCGCGATGCGCTATATACGTAATATATATATCGTACGCGTATAATATCGATCGTATAATTATAGCGCATATCGCGTAGC
CGGCCGTACGGCCGATCGATGCCGCGCGATCGGCTACGATGCCGCGCGATGCTAATATGCGCATATGCCGCGATTAGC
GCATGCCGTAGCCGCGTACGCGGCCGGCGCGCTAGCATCGCGGCGCCGGCATTAGCCGGCTACGATGCGCGCCGTA
TAATTAATCGATCGTAGCTAATATATATATGCATTACGATATGCATTAATATATCGTAGCCGATCGCGCGGCGCATGCATC
GATGCGCGCATGCGCTAATCGATTAGCTACGTATATATATACGATTAGCTAATTAATGCTATATAATCGGCGCCGCGGCG
CTATATAGCCGCGTAGCTAATCGGCGCTAATGCCGTAATTAGCATCGGCGCTATAATCGCGTAATCGGCGCCGGCGCCG
CGCGCGGCATGCGCTAATCGATTACGATCGATATTACGGCGCCGTAATATATGCATATCGGCGCCGTATAATATATGCAT
TATAATATATTAATCGATTACGTAATCGATTACGATCGTAGCCGGCGCTAGCATATGCATATGCTACGATTATAATGCCGC
GGCGCGCATATGCCGGCTAATCGGCCGTACGATGCTAGCGCTATATAGCTAGCCGGCCGTATACGGCATGCATCGCGG
CGCATGCGCATTATAGCTATACGCGGCTACGATATTAGCCGGCGCCGCGCGCGATCGTACGGCTAATGCTAGCATTAAT
TACGATCGCGCGGCATGCGCTACGGCTAATGCTACGCGCGCGCGTACGATGCTACGATGCCGCGCGGCATTAATCGGC
GCTAATATTACGCGGCGCCGATATTAGCTACGGCATCGATATTAGCGCTACGATATATCGGCTAGCTAATTATAGCTAATC
GCGATGCTAATCGCGGCTATACGTAGCCGATCGTAGCGCGCTAATATGCGCTATACGGCATGCCGTAGCTAATGCCGCG
TAATTAGCGCTATAATCGTAGCCGGCATCGATGCATATCGTAGCTATACGTAATCGCGGCATATATGCCGCGGCTATACG
ATGCCGTATATACGATATCGCGGCCGGCTACGGCTAATTATACGCGCGCGCGTATAATATTAGCGCATTAATTAGCGCGC
ATTAGCATGCGCGCGCTAATGCCGGCTAGCATCGCGTATAATCGTAATCGCGGCCGGCGCCGATTAGCGCTATACGCG
CGCGTACGATATATGCGCATGCCGCGATCGATATCGCGATGCCGCGATGCATTAATCGTAGCATGCGCGCATGCCGATG
CCGATATCGCGTATAATATTAGCCGCGATGCTATACGGCTACGATCGGCATCGCGTATATAATGCATATCGCGATCGCGG
CGCGCCGATCGTACGTAGCATATCGATTACGTATATAATTATATACGATCGCGATTATACGGCGCCGCGGCCGATATGCG
CTAATTAGCATTACGATCGCGATTAATTATACGGCGCCGTATATATAGCATTATATAATGCCGGCATCGATGCTAATGCCG
ATCGATATTAATGCCGTAGCTATAATCGCGCGTATATATAGCTATACGGCTATACGTAGCTAATTAATATTATAGCATTATA
CGCGGCGCGCCGGCTACGGCTAGCATCGTAGCTAGCGCGCGCCGTAATATATGCCGTAGCGCGCTATAATTACGATCG
ATTAGCCGTAGCTAATATATTAGCATGCCGTAGCGCATCGGCTATAATGCCGGCTATAGCTACGATCGATTATAGCCGGC
GCGCGCATTATAATATATCGGCTAATCGGCCGTATATAATCGCGGCGCATGCGCTAATGCGCGCGCATATCGTATAGCAT
CGTACGGCATATTACGTAGCTAATTAGCTATATATACGGCCGTATAATCGGCTAGCATGCTATATATATAGCTACGATCGC
GTATATAATGCCGCGGCTAATCGCGTATAATATCGATATGCCGTAATTACGTATATATATACGATGCCGTATACGGCATAT
GCGCCGTATATAGCTAGCCGTAATTACGATATTACGGCTAATCGATTACGGCCGTAATCGATCGTAATCGATTAATCGCG
ATGCCGATCGATATGCCGTAGCGCCGATGCATATGCGCGCCGATGCATTAGCATTAGCCGTAATTACGGCATGCGCGCA
TGCGCTATATAGCGCGCCGCGTAGCTAGCATGCATTATAATATATTAATCGGCATGCTAGCGCCGTAGCCGGCCGATCG
ATTATATACGCGTAGCCGGCTAGCGCATTACGATGCTACGTAATGCCGCGGCTACGATATTATACGCGATCGCGATCGTA
TATAGCATTATATACGATTATAATCGTATATAGCATTATATATAATTAGCATATTAGCCGTATATACGATATATGCTACGGCA

TATGCGCCGCGGCGCGCTACGATATCGATGCGCATATTACGATTATATAATATGCCGATGCATCGATATTACGTAATCGG
CTAGCCGATCGTAATCGATGCCGGCCGATTAGCTATAGCCGCGGCATGCTAATTAGCGCATATGCATTATACGGCGCGC
TAATTATAATCGATCGCGATCGATTAGCCGCGGCTATAATTAATCGTATACGTATACGATGCTATAATCGTAATTAGCGCAT
CGGCTACGGCGCGCTAGCTAGCGCATCGATTACGCGGCCGATATATTACGTACGGCTATAATGCATCGGCTAATCGTAA
TTACGCGGCTACGTAATTACGTAGCATTACGCGCGGCGCTACGATTAATATCGATTATACGATGCCGATCGTACGTAGCA
TATATTATAGCTATATAGCTAATCGGCTACGTAATATTATAATCGGCATCGTATAATTACGATATCGTATAGCATTAGCATC
GCGCGTAGCTATAGCCGATGCATCGATTAATTACGTAATATTAGCGCCGTAGCGCGCATATTATACGGCGCTAGCCGCG
TAATCGTAATTAATTATAATCGGCCGGCTAATGCATATCGCGATATATTATATATAATTACGGCATTATAGCGCCGGCCGC
GTACGATTAGCATTAATATATATCGATTAGCTAATCGCGGCGCTACGGCGCGCTACGTATATACGCGTATACGATCGATG
CCGTACGGCCGTAATGCTACGTAGCATCGGCTATAATTAGCCGGCATGCGCCGGCATATCGCGTATACGCGGCTAATTA
GCATATTACGCGTAATCGGCCGTACGGCCGTACGTAGCCGGCCGCGCGGCCGTATACGCGATTACGATCGGCCGGCTA
TAGCGCTACGATGCTAATATATTATATAGCGCCGTATACGTACGTATAGCTACGATGCCGATCGATATTATACGTAGCATA
TGCTAGCGCGCCGATATGCCGTAATTAATTACGATCGCGATCGGCGCGCGCGCATTATACGATATGCATGCTAATTATAT
ACGATTAATGCATTAATGCCGTAATGCTAATATCGCGCGCGTAATATATATCGCGTAGCCGTACGCGCGTAGCTATAGCT
ACGCGCGGCATATATATTATAGCATTAGCTAATCGTAGCGCATGCCGCGGCATGCTATATAGCATCGATCGCGTATAATC
GTATATATATACGCGTATAGCTAATTAATTATATATAGCGCGCTAGCTAGCTAATCGATCGGCATTAGCCGATTAATCGCG
TATATAATCGCGCGTAGCCGGCGCATGCGCATGCGCTAGCCGTAATCGCGGCTAATGCGCGCCGCGTAGCGCGCGCC
GTAGCTATAATTAGCCGGCGCATCGTATAATTATAATTAGCATGCGCTACGCGATGCGCGCCGATTAATGCATTAGCGCT
ATAGCGCGCTAATTATAATGCATATTAGCTATATATAATGCTAGCCGATATTAATGCGCATTAATTAATATTAGCATTAGCC
GATGCCGATGCGCTATAATCGGCGCCGATCGCGGCGCCGGCGCATATGCCGCGATTATATATACGTAATCGATCGATTA
ATCGCGCGCGGCCGGCGCTATAATGCCGGCCGATATGCATATCGTAATGCCGGCTATAGCCGATATATCGGCATCGCG
ATGCGCTAGCGCCGCGCGTACGTATAGCCGCGTACGTACGGCGCCGGCCGCGATCGGCATCGGCCGATATCGGCATG
CTACGGCGCCGATGCATTAATCGCGTATAGCCGGCTACGCGTAGCCGCGATTATAATCGCGATTACGCGCGGCTAGCTA
ATCGATATGCGCGCATTAATTATAATTAGCTAATCGGCTAGCATGCGCTATAATCGATCGATCGGCTATATATAGCGCCGT
AATCGATATATATATATGCCGATGCGCATTATACGTATATATATAATATGCATTAGCCGCGTATAATTAATTATACGATTATA
TATAGCTACGCGCGTATAATTACGCGCGCGTAATTACGCGTAGCATCGTATAGCATATCGCGCGGCTACGTAGCTACGG
CATCGCGCGTATAATGCTAGCTAGCTAGCCGTAGCATCGCGATTAGCCGTATAGCCGTAGCATATGCCGCGTATAATATT
AATCGATCGGCTAATTATAATGCGCTAGCGCGCCGGCATATCGGCGCCGATGCGCGCCGCGTACGTATATAATCGCGTA
CGATATCGCGCGGCATTACGGCGCGCGCTATAGCTAATATATCGGCCGATTAATTAGCCGCGATTATAATTACGATGCGC
CGCGTAGCTAATCGGCGCGCCGTACGCGCGCGCGCGCGCGGCATGCTAATATCGCGGCATATCGTAGCCGCGCGTACGC
GCGGCTAGCGCCGTAATGCCGTATATATATATAGCTAGCATGCGCTATACGGCTATACGATTAGCGCGCTACGTAATGCT
ACGGCGCTAATCGGCTACGATCGGCTACGATGCTAGCCGATTAGCATATATATATCGCGGCGCCGTACGTAGCCGTACG
CGCGCGTACGATTAATCGCGTAATGCATGCATTAATATGCATTAATGCCGTATAGCTACGCGCGTAGCCGGCGCATATGC
GCGCTAATGCCGTATAATGCATGCATGCGCGCCGTAGCCGCGGCCGCGATGCCGCGGCCGATATATTATAATGCATATT
AGCCGATGCGCATTAGCTACGTACGTATACGGCTAATGCCGATGCTATACGATTATACGTAATGCTAATATATGCATGCTA
TACGATATCGGCGCGCGCCGCGTAATGCGCGCGCGCCGTATAGCGCGCGCCGGCGCCGCGCGATTATAGCTATATT
AATGCGCCGTATATAATTAATGCTAGCTAATGCCGATTAATTATAGCTACGATTACGATGCTAGCGCCGGCCGCGATCGT
AATGCGCGCCGTATACGCGGCTAGCGCATTATACGATTAATCGATGCCGTAGCTAGCGCGCGCTACGATGCGCCGCGG
CCGTAATTAGCGCCGCGGCCGCGCGATTACGCGCGCGGCGCATCGCGCGATTAGCGCGCCGATCGTATAGCTAGCGC
GCTAATCGTACGTATAATCGTAATGCATATCGCGCGATCGCGCGATCGTACGGCGCATGCCGTATAGCCGTACGATTAC
GCGATATTAATCGTATAATGCATCGGCATGCTACGCGCGGCGCCGCGATATCGATGCATTAGCATCGTAGCGCATCGTA
GCCGATTAATTACGTAGCGCGCTACGCGGCATTACGATATGCGCTATACGATTATAGCATTAGCTATATATATACGATCGG
CTAATATGCTATAGCTAGCCGGCATGCTAATGCCGATTATACGATGCCGCGCGGCCGTACGCGGCGCCGCGGCATATAT
ATCGGCATATCGTAATCGTACGGCGCCGTATACGATTAATGCATCGTACGTAATCGCGCGTAGCTATACGGCATCGTACG
TAGCTAGCGCTATATACGCGCGCGCGTATATATATAGCTATATACGCGATCGCGGCATGCCGCGGCGCTACGTAATCGT
AGCCGATCGATGCATTAATTAGCTATAGCCGATGCTACGTAGCATCGCGTAATCGATCGATATGCGCGCTATAGCCGGC
ATCGTAATATGCCGCGGCCGATGCCGGCCGCGCGATCGATCGTAGCGCATTAATTATACGCGCGCGTAATTAGCGCATT
AGCTAGCATCGTATAGCTAATATATTAATGCATTACGTACGCGTACGTAATGCCGCGTATACGGCGCGCATATCGCGTAG
CATCGATTAATATCGCGATTAGCATCGATCGCGGCGCTAATCGGCGCATTATACGGCATTAGCCGTACGATCGGCGCGC
GCGCGCCGGCGCCGTAGCATGCCGTAGCGCTATAGCCGATATTACGTATATAGCATCGGCATATTAATATATCGTACGC
GGCATATCGATATCGTATACGTACGATATCGTACGTACGTAATCGCGGCCGCGGCGCTAATATTACGATCGATCGATTAA
TATCGATATCGATATGCTACGCGGCATTATACGCGTAATGCGCGCTATATAGCATATCGTAATATCGATCGTACGGCCGG
CTATAGCATTAATGCGCTAATTACGCGCGCGTATAGCGCCGCGTAATGCTACGCGGCTATATAATCGATGCTAATATGCT
ATACGCGCGGCTAGCGCCGTAATATCGATATATCGATATTAATTAATCGGCGCCGTAATGCCGTAATATCGTACGTATATA
CGATCGATTAATTAGCTACGATTACGTAGCATTAATCGGCTATAGCCGCGATATGCATTAGCATATATGCGCGCTACGGC
TAGCCGATTAATCGTAATCGATCGTACGGCCGTAGCATATTATACGTACGTACGCGGCCGGCCGATGCCGATGCATATC
GTAATCGGCTATATACGCGTACGTAGCGCGCTATAGCGCGCGCATATATGCTACGCGTACGATGCATGCATCGGCGCTA
GCATTACGGCGCTAGCTACGCGATGCCGGCTAGCCGATTATACGATGCTACGTACGGCTATAATATTAGCTACGGCGCG
CCGGCGCCGATATCGCGCGATATATCGGCCGCGGCATCGGCCGATCGGCGCTAGCTAGCTAATATATCGTAGCGCTAC
GATTAGCATTACGTAATTAATATCGGCGCTAGCTACGGCCGTACGGCCGGCATATCGATCGCGTACGTAGCATGCATCG
ATCGTAGCTATACGATGCTACGGCTAGCTAGCATATTAATATTAGCTATAGCATGCCGGCTACGTAGCATTAATTATACGC
GCGGCTAGCTAATATCGCGCGTATATAGCATTATATAATATATTAGCTATATATATATACGCGGCATTACGCGTAGCTAATA
TGCCGATATTACGGCGCCGATGCATCGCGATCGCGATGCATCGATTAGCATCGTATAATGCGCATGCGCATTATACGTA
GCGCATGCTACGCGATTACGGCCGCGCGATTAATCGGCCGATTAGCCGGCCGTATAGCTAATCGGCATCGCGCGCGGC
TATAGCTAGCGCCGGCGCTAATGCGCCGATATATCGTAGCCGTAATTAATTATACGGCGCCGTAGCGCATTATACGATTA
CGTAGCATGCATCGATATGCATTAATGCGCTAATATATTAGCGCTATAGCGCGCTAGCATTATAGCTAATTAATTACGCGG
CTAATGCGCCGTAGCGCCGATATATGCATATCGTATAATCGATGCTAATTACGGCGCCGATGCCGATCGTACGGCTATAA
TATCGCGCGATCGATCGATCGCGGCATTAGCGCGCCGTAATTAGCTATAATATATCGCGCGCGCGATGCATTAGCCGAT

TAATTACGCGCGCGGCATGCGCGCGCATATATGCATGCTAATATGCATATATCGGCGCCGCGTATATAATATATGCATCG
ATTATAGCATCGGCATTAATCGATATATGCGCGCATATTAATCGCGCGTAATTAATCGCGCGTATATATACGCGGCGCATA
TCGCGCGTACGATTACGTATAGCCGTATATAGCTACGTAATGCATTAGCATTAATGCCGCGCGGCATATGCCGGCTAGCT
ACGATTAGCGCTACGTATAATGCCGGCGCATGCTAGCTAGCGCGCGCATCGGCGCTATAATGCATTAGCTACGATTATA
CGGCTACGATATATATTATACGATCGGCGCGCATGCTATACGTAGCGCTAATATTAGCTACGGCGCTAATCGTAGCATGC
GCGCATATCGCGCGGCTACGATCGCGATATATCGTATAGCATCGCGCGTACGCGGCATCGATTATACGGCGCTATATAT
ATAGCGCTATATAGCGCGCGCGCGCTATAGCGCTATACGTATAGCCGGCCGTATAATTACGTATAATGCATTAATATTAC
GTAATTAATCGATGCCGTACGATATATGCGCCGATTAATGCCGGCGCCGCGGCATATGCGCCGTAGCGCGCATTAATTA
CGGCTAATATGCCGTATAGCGCCGATGCGCGCATATGCGCCGGCTACGCGCGGCGCATTACGTAGCCGTACGTAGCTA
CGATTACGTACGGCATTAGCTACGATATATATTATACGATCGTACGCGTATAGCCGGCTATATACGGCATGCCGATATATT
AGCTAATTAGCGCCGGCCGTATAGCGCCGCGATATCGCGGCGCGCTACGCGGCATGCCGATCGCGCGATGCGCGCTA
CGTATAATGCATCGGCGCCGATCGCGATGCGCCGCGGCGCTAATTAATCGTAGCATCGTACGATGCTAATGCCGGCGC
CGTATAATTAATATGCTAATGCATCGTAGCCGTATAGCTAGCTACGGCCGCGATTATAGCTACGGCGCTAATGCCGCGGC
ATCGATGCGCATATATTATATACGTACGGCTAATTAATGCATTAATGCGCGCCGATCGATATATGCTATATAGCCGGCGCA
TTAATTAGCATCGCGCGTAGCCGATCGTAATCGGCCGTACGCGATTAATATATATCGTAATCGTATAGCCGTATAGCGCA
TGCATGCTAATTATAATATATGCTACGCGTATACGGCCGATGCATTATACGGCATGCGCATATGCATCGCGATGCCGCGC
GCGATATTACGCGTAATTAATCGGCATTACGATGCTATAGCATTAATGCTAATGCATTATAGCGCTACGGCTAGCTATAAT
ATATCGTAGCGCTAATGCTATAATCGTAATATCGGCCGTAATTAATTAGCTACGATGCCGGCGCCGTAGCATTAGCCGTA
ATCGATATCGGCATGCGCTACGTAATGCTATATATAGCGCGCCGGCATATGCTAATTACGCGGCCGGCATCGGCTAATAT
GCCGTAATATTAATTAATATGCATGCGCTATATACGGCTACGATGCATTACGTAATCGGCATATATCGGCGCATGCTAATT
ACGATTATATACGTATAGCTACGGCCGTAGCTATAGCATGCCGTATAGCCGTAATCGGCTACGCGCGCGTATAGCGCTA
GCTACGCGCGATATATTAATTAGCCGGCCGTATAATATGCATCGCGCGATCGGCGCTATAGCTACGATATGCTATAGCCG
TAGCATATCGTAATCGATGCGCGCATCGGCGCATGCTAGCATGCTAGCCGTAGCATGCGCTACGATTATATATAGCTAAT
CGGCCGCGTACGTATAGCCGGCATGCATGCTAGCATCGGCCGATATTATATATATATAGCTAGCCGCGTATATATACGTA
GCTATATAGCGCCGGCGCGCTAATGCATCGTAATATTATAGCGCGCCGTATATACGTAGCGCATCGATTACGATGCGCAT
TACGATGCTACGGCTAATTAGCTAATTAGCCGGCCGTAGCCGGCGCCGTACGATCGGCATTACGGCGCTATACGCGCG
GCTATAGCATATCGCGCGGCATATATATATGCCGCGGCCGATGCGCCGATTAATGCGCCGCGCGCGTACGGCATTATAT
AATCGCGATATTACGGCATATCGATCGATGCTACGATATGCGCCGATCGCGTAGCATGCATCGTACGATCGTAGCTAATC
GCGTATAATATGCCGCGTAGCCGGCGCGCCGATATTATACGGCATCGGCGCTATAATATATCGCGGCCGGCATATCGAT
CGATTACGGCCGGCGCGCATCGCGGCGCGCGCGCCGTAGCCGGCGCCGTAGCATGCGCCGTATAATGCGCGCTAATC
GATATGCCGCGGCTAATATATCGATTACGTACGCGCGGCCGCGATATGCATTAGCATGCATTAGCATCGTAGCTATACGG
CATTATAGCTATACGGCATCGCGTAATATCGGCGCTACGTATACGGCTAGCCGGCTAGCATCGGCGCATATGCTATAATT
ACGCGATTACGTATAATGCCGGCGCGCCGATATCGATTAATGCCGTACGATTATACGTATATACGATTAATATGCCGGCC
GTACGCGATCGGCGCTAATTATATAGCATGCATATGCGCGCCGGCCGTAATCGATCGGCCGGCGCGCATCGCGCGTAT
ATACGGCATGCTATACGTAGCTAGCTAATGCGCCGTAATTACGATGCTAGCGCTAGCCGATATTAATATTAGCTATAGCG
CTATAGCGCGCCGGCATTACGGCGCGCATGCATGCCGGCTAGCATATTACGTAATGCATATATATGCCGCGGCCGGCTA
GCCGCGCGATATGCATATGCTAATGCGCGCATCGTAGCCGGCTAATATGCGCGCTATAGCGCTACGATTAATGCTATAG
CCGTAGCCGGCCGCGCGGCCGGCATGCCGTAATGCATGCTACGGCATATGCTAGCATCGATTATAATCGTAGCATATGC
TACGGCGCATTATACGGCGCTAATCGGCGCCGATTAGCATCGCGGCCGCGTATATATATAATATTATAATATCGATTAATT
ACGATTATAATGCGCGCTAATTATACGATATCGCGATCGATTAGCTAATGCCGTATATAATCGATGCATTATAGCATGCCG
GCATCGTACGATATTAGCATATGCATTACGGCTAATTATAGCGCATGCTACGCGTACGTAATGCCGCGCGATCGGCGCC
GGCGCCGTAGCCGCGTAATATCGGCTATATAGCTAGCATCGCGATATATTAATTATAATTAGCCGCGGCATTATATAATCG
ATGCTAGCATTACGTAATCGGCGCTACGTACGATCGGCCGATGCATTATAGCTAATGCATGCATCGCGTACGATGCTATA
GCATATGCGCGCGCATTAATTAGCCGTAATGCATATTACGATGCGCGCGCGCCGTAATATTACGGCGCTATATATACGTA
GCATCGATGCTATAATTAATGCCGTATATATATAGCGCTAGCGCGCTACGGCCGCGCGATGCTAGCATCGTACGTAATAT
TAATTACGTATAGCGCTACGCGTACGCGTATAGCCGTAATGCGCGCGCTATAGCATTAATGCATATATATTAATTAGCGCA
TCGGCCGCGCGGCCGATTATAATATCGGCATTAATTATAATTAATGCGCATTAATGCCGGCATATTACGATATTAGCCGC
GGCTATAATATTATAATTAGCGCTACGTACGTAATATGCTATAGCCGGCCGGCCGTATACGGCATCGCGTATATAGCCGG
CTATACGGCTACGATTACGGCGCCGGCATGCTAATCGTAGCTATAGCCGGCCGATGCCGGCTAGCTATATATAATTAGC
ATGCATATTAATTATACGGCTAATTATACGTAGCATATATCGGCTAGCCGATGCATTACGATGCTAGCCGTACGGCCGGC
TATACGTACGTAATGCGCGCGCCGTATATATATAATATTACGATTAGCGCTAATTATAGCGCCGCGATTACGTACGTAGCT
AGCGCGCTACGGCCGATATATTATAATCGATATTACGCGGCGCATATCGGCTACGATATATGCTATAATCGTAGCATATTA
ATGCCGTAATCGGCCGCGTACGGCGCATATATTAGCCGGCGCGCATGCTAATATCGATTATAATTAGCTAATCGTATATA
TAATATATGCATTATAATTAATGCCGCGGCATGCATTAGCTACGATGCGCATGCCGCGTACGGCATATATCGCGCGATTA
GCTAATCGTATAATTATAATGCCGGCATGCATCGCGTAATCGTATAGCCGTACGCGTAGCATTATACGCGATCGATATGC
GCTAGCATATGCTACGATCGTACGTAATTATACGGCATTAATATATCGATTAGCGCCGGCCGCGTAATATTAGCATATCGC
GGCGCCGCGATATATCGCGCGGCGCTACGGCATATTAGCTACGATTATAATCGATGCCGGCATATGCTACGATTACGAT
ATCGATGCGCATTAATTACGCGATCGCGCGATGCTACGGCCGGCATCGCGGCATTAATGCTACGGCCGGCCGATCGAT
GCCGCGATTAGCTAATTAGCGCCGCGCGATCGATTAGCTACGTATATAATCGTATATACGCGGCGCTATACGGCTAGCAT
ATCGGCCGATATTAATTATACGTATAGCGCGCCGCGTATATAATGCATTATAGCCGCGGCCGCGGCCGTATACGTATATA
ATATATGCGCCGATTAATATTAATGCCGTAATTATAGCATGCTAGCATGCCGCGGCTAGCTATAATCGATTATATAGCTAC
GGCGCATCGATCGCGGCATGCGCCGTACGCGATATATCGTAGCCGATCGATCGGCGCCGCGCGATATGCATTACGATG
CTAGCGCGCCGGCCGGCCGATGCTATAGCGCCGCGGCTATAGCATTAGCTATAATGCCGCGTATAGCTAATATTACGTA
CGGCCGCGATTAATCGCGTACGCGGCTACGATTATATAGCGCATATTATACGCGATCGATATCGCGTACGCGCGGCCGA
TATGCATTAATATTAATCGGCTATAGCGCGCCGTACGCGCGGCATGCATATATCGTAATGCCGCGTATACGGCTAGCTAT
AGCCGGCCGTATACGGCTAATTACGATCGATTAGCCGCGATATCGCGGCCGCGTAGCTACGCGCGCGCGATGCGCGCT
ACGGCGCATGCCGCGTACGTACGGCCGCGCGGCGCATGCCGCGCGGCTATACGGCCGGCATGCGCCGGCATCGCGT
ATAGCTAATATTAATGCGCGCCGTAATTATAGCGCATCGCGGCATCGGCCGGCATTAATTACGCGATTAGCATGCCGCG

CGGCTACGGCCGCGATTAATCGGCATTAATGCCGTAATATTAATGCGCCGGCGCGCGCATTAGCGCGCCGGCATCGAT
ATTATAGCATGCATCGGCGCTAATGCGCGCTAATTATACGTACGTAATTAGCCGGCCGCGCGGCATATGCATGCGCTATA
ATATTACGTAATATGCCGGCTATATAGCATCGATTAATTAGCCGGCTACGGCCGTATATAATTAATGCGCCGTAATATCGC
GATTACGTATAATGCTAATGCATTAATTATATAGCTAATCGTATAGCATTAGCATATTAATATATATTAATCGGCGCGCCGG
CCGCGATTATACGGCCGATGCTACGGCGCGCCGGCTATACGTAGCTAGCCGCGCGGCATGCCGTATACGCGCGCGTA
CGATGCTAGCATATCGCGCGCGATGCTAATCGCGGCATATTACGATATATATCGATTAATTATATATAGCCGTATAATTAG
CCGTATATAATCGTATAGCGCTAGCCGCGATCGCGTATACGGCATGCCGTATACGTACGATGCATTACGGCGCTAATTAC
GGCGCATATCGGCGCCGATTACGCGCGTACGGCATATATGCCGATGCCGATGCGCGCATGCCGATTAATGCTACGTAC
GCGCGTAATTAGCTACGATTAATTACGGCGCATATTAATATATATCGATCGATCGTAATTAATATCGTATACGATGCATATG
CCGATCGGCCGATATCGCGGCATCGATTAATGCTATAATGCATGCGCTAGCATGCATCGCGCGTAGCTAATATTATACGA
TTAGCCGCGTATAGCATATGCTAATCGATATGCCGTATAGCTATAGCTACGGCATGCCGTAATCGCGATTAATCGGCATA
TCGTATACGCGTAGCCGCGCGGCCGTAGCGCGCATTATACGATTACGGCCGATTAGCATGCATATGCTAATATCGCGGC
TATAGCTATAGCGCATGCGCCGGCTACGGCATATCGTACGCGATCGGCATGCGCATTAATTATAGCTAGCGCTATACGG
CATCGATGCATGCGCCGCGATATTAGCGCCGCGATCGGCTAATTAATTATACGGCTACGTATAATTAATTAATGCATCGG
CATTAATGCATCGGCGCATATTAATGCGCTAATTAGCGCGCTATAATATGCATGCCGGCTAGCCGGCCGTATAGCCGTAG
CCGTAATTAGCCGGCCGCGGCATGCTAGCCGGCGCCGATCGGCATTAATATCGTATAATCGTATATAATATGCTATAATG
CATCGATGCATTACGATGCGCTAATATCGTAGCGCCGCGTATAGCGCGCCGTAATATGCATGCCGCGCGGCGCTAGCC
GATGCTACGATATATATGCTATATACGATATGCCGTAATGCATATGCCGCGCGCGGCCGATTATATATAGCGCATCGATTA
CGCGGCATCGCGATCGATATCGGCTAATATTATACGGCCGCGTATACGGCGCGCGCCGCGGCCGGCCGGCGCATATTA
CGCGATGCATGCTACGCGATGCCGATGCTAGCTACGCGATGCCGATATATCGATATCGATATGCGCTAATATGCCGGCG
CTAGCATATCGGCATCGATATTAATTAATATCGATGCCGGCCGATCGATTAGCTATACGATGCTATAGCTAGCCGTACGC
GGCCGTAGCTATAGCATTACGGCTAATGCGCCGGCGCCGGCCGATCGTAGCGCGCCGATATGCATCGCGGCATCGATT
ACGATATGCATGCTATAATCGATATTAATATATGCTAATTAATCGTAATTAGCCGATATCGTAATCGATATGCGCATATCGA
TATATCGGCCGATTAGCCGATCGTAGCGCCGATATGCCGGCTACGCGTAATATGCATCGGCTAGCTATAGCTACGGCTA
GCCGCGCGTATAATTAGCTATAGCTATAGCGCATATGCATCGTAATCGCGATATGCATATCGTAGCCGATATCGTAATTAC
GATATATTACGCGGCGCTATAGCGCGCATATTATAGCTAATCGATCGGCTACGTAATGCGCATCGGCGCGCCGTAATGC
TACGATCGCGGCGCGCTAATATCGGCGCATATCGATCGATTAATTACGATCGTAATATATTATAGCTACGCGCGGCATTA
TATAGCTACGTAATCGGCTATAGCATCGCGTATAATGCATGCTACGTAATTATATAGCCGGCCGGCCGCGATTAGCTACG
TACGGCATCGATATCGATCGCGGCCGGCATGCCGCGATTACGTACGTATATAATATCGGCTAGCGCCGATATGCTACGT
ACGATTATATAATTATATAATATTATACGGCCGGCCGATTATAGCGCATATGCATGCGCTAGCATTATACGCGATATTAGC
CGTACGTAGCGCATATTATAGCGCGCATATATTATACGCGATCGATTAATCGTATAGCATCGTATATACGGCGCATTAATA
TATGCTAATTAGCGCATCGATGCATGCATATGCATTACGGCTATAATCGGCATATTAGCTAATATATCGCGCGCGTACGTA
CGTACGGCTACGGCATATGCCGATCGGCTAGCGCATCGATCGCGGCCGATGCGCATGCGCATTACGGCCGGCCGGCA
TGCTACGCGTAGCATGCGCATTACGGCGCTAGCGCTAATTACGTAGCCGGCCGATTATAGCATATTATAATATCGCGCGA
TATCGATGCATCGTATAGCGCTAATATTAGCATTAATATCGCGTAGCTAGCATGCCGGCCGGCGCTACGGCATCGTATAC
GATGCGCTAATGCGCCGATATGCGCTAGCGCCGGCGCTACGATATTACGCGGCCGGCCGATGCGCATATGCTACGTAA
TCGCGATCGCGCGTATACGTAGCATCGATTATACGCGTACGATATATATTACGATATATGCATCGGCTATAATGCCGATC
GGCTAATATCGGCGCCGTAATATCGCGCGATCGATCGGCTAATTAGCGCTACGTAGCTATACGGCCGATCGATTAATATT
ACGATGCATGCTAGCGCCGTATAATGCCGCGTACGGCATATCGTACGTAATATTACGGCGCCGTACGCGTACGGCATTA
GCCGCGCGTACGGCATGCCGGCTATACGGCATGCGCCGATCGATGCATATCGTAATTACGTAGCCGTAGCCGTAGCGC
CGATGCCGGCATTAGCATATTACGGCCGATTAGCATGCATATCGTAGCATATTAATGCGCGCGCGCATCGCGGCCGGCT
AATGCTACGTAATGCGCTAATCGGCCGGCTATATATACGGCTACGTAATTACGGCATCGTATAGCATATATGCATCGATAT
CGATATATCGTAGCCGATATCGGCATCGGCTAGCGCATTAGCTATATAGCATGCTATAGCTAATATCGCGCGCGATATTA
CGATGCGCGCGCTAATGCGCGCATCGTATATACGGCTAGCGCATGCATTAATATGCATATCGCGTAATCGTACGTATAAT
TACGATGCCGTATACGGCGCTACGGCATCGCGTAGCCGATGCTAATTATACGCGATTAATGCCGCGTAATGCCGCGCGC
GCGGCATCGGCATCGATTAGCATTACGTAATATCGGCTAGCTAGCATCGTACGATTATACGGCCGATGCGCCGTACGGC
TAATGCATTAATATATGCTAATGCCGTAGCGCCGTAATGCATATATCGGCCGGCGCCGCGGCTAGCGCATATGCCGGCC
GGCATCGGCGCGCTACGCGGCTACGGCCGCGGCTACGCGTAATATCGGCGCGCTAATATGCGCTAATGCTATAGCTAT
ATATACGTATACGATCGCGTAGCATGCTAATTACGATCGCGATCGTATATACGGCTACGGCGCGCCGGCTAATGCGCTAT
ATAATTAATATCGCGTATAATTAGCATCGATTATAGCATATGCGCTAGCGCGCTAGCCGATTATAGCATTAATCGATGCATT
AATATGCCGGCATATTATACGGCTAGCATCGGCCGATATTATACGGCCGTATAATTACGCGTAGCATTAATATTAATGCGC
TATAGCATATATGCCGCGTAGCGCCGGCATGCATATTAGCTAGCCGTAGCATGCTATAATGCGCGCTACGGCCGTATATA
TAATGCGCTAGCATCGATATGCCGCGATCGGCATATCGGCTAGCGCATATATTATAGCATCGCGTAATATTAATGCCGAT
ATATTACGCGGCATTATAATGCGCTAGCGCTAGCATATATTATATAGCATATATCGCGGCCGATATGCTACGTAGCCGTAC
GTACGGCCGATGCCGCGGCTAGCATCGCGGCATATCGGCCGTAGCATGCTAATATCGGCTACGGCATCGATCGTACGC
GGCATATGCCGTATATAGCTAATCGGCGCATCGTAATTACGGCCGCGCGATCGATATTAGCCGATATATATATGCCGTAA
TATTAGCTATAGCCGGCCGTAGCCGTAATCGATATATTATACGGCTAATTACGATCGATGCGCATTACGCGTATAATCGAT
ATTATATATAGCGCCGCGATTAATATCGGCCGCGCGTACGATATATGCTAGCCGTACGATATCGGCATTAGCCGCGCGG
CTACGTACGCGCGGCTACGTATACGGCATCGTAATCGATATCGCGTACGTACGTAATATGCGCCGTAGCATATTAATATC
GTACGCGATATATCGCGCGATGCATATTAATCGATGCCGATCGGCCGGCCGCGATGCATGCATTAATATGCTAGCCGAT
CGGCCGATATGCGCATCGTAATCGATCGCGGCATCGGCGCCGCGCGCGGCCGCGTACGGCCGATGCTAATGCTATAG
CATTAGCATATATATTAATGCTAATTATATAGCGCATATCGTATACGTACGTACGATGCGCGCGCCGGCATTAGCCGGCTA
TATATACGGCATGCATGCATCGCGATCGATTAATCGTAGCCGATGCGCCGTATACGTACGGCTAATATGCTAATATGCAT
CGTAATGCGCGCGCTACGATGCGCATGCGCCGCGATATATATTAGCATCGATCGTAATGCTACGCGGCATGCCGGCGC
CGATGCCGATGCGCCGGCCGGCGCATGCTAATCGTAATATCGCGATGCATGCATATATATATCGCGCGATGCTAATATG
CCGCGGCCGTATAATTAGCTATAGCTAATGCCGCGTAATGCGCATGCGCTAATCGCGATTAATATTAATTAATTAGCTAAT
GCCGCGTATACGGCGCTACGCGGCTAATGCCGTATAGCATATGCCGATATGCATGCTAGCTATAATCGCGGCATGCCGT
ATACGTACGGCCGATTAGCATCGATATGCGCCGCGCGTAATATCGCGATATTATACGCGCGGCTAGCTACGTAATGCGC

CGCGGCATGCCGGCCGTATAATTAATCGCGGCCGGCGCATATGCTAGCCGGCGCATGCGCGCATATCGATGCTATATA
CGCGCGATGCATCGGCCGATCGTATAATATCGATATGCGCCGTATAGCGCTAGCCGCGGCTACGATATCGGCCGCGTA
GCCGATTATATATAGCTAATATTATAATGCATTAATCGATTAGCATGCGCATATATGCCGTAATTACGCGGCGCCGATGCCGG
CGCCGCGATGCGCCGCGGCATTAGCATGCTACGGCGCCGGCTATAGCTAATGCATATCGGCCGATATCGGCCGGCATC
GTACGATCGCGATATGCTATACGTACGGCTAATGCATTAATCGATATCGATTACGTAATATGCCGTAGCGCATATCGGCG
CGCCGTACGATTAGCGCGCCGGCATATCGTAATATATATATCGGCGCGCGCTAGCGCCGATGCATCGCGCGTAGCCGA
TGCCGATTATAATTATATAGCTACGGCCGTATAATTACGGCTAATCGTAATGCTACGGCTATAATGCTACGCGCGTACGTA
ATTAATTAATCGATATCGCGGCATTAATGCTAATTAATATATATGCTATAATTAATATATTAATATATCGCGATGCCGTATAC
GTATAGCGCCGCGGCATCGTATATAATCGTATAGCGCATATCGTATAATCGATATTAATTACGATGCATCGTAGCATGCCG
TATATATAGCCGGCATGCGCATCGGCCGGCTACGTAGCGCCGCGTAATGCATATGCTAATTATAATATCGATTACGATAT
GCATTACGCGATTAGCGCTAGCATCGTAGCTACGATGCCGCGGCGCGCATATGCATGCTAGCGCCGCGTAGCATCGTA
ATCGTAATATATGCGCTAGCATATCGTATATACGTATAGCTAATGCCGTAATCGATATCGGCATATCGTATATAGCATGCTA
GCCGATCGATGCTACGGCCGTAATGCATGCGCGCTACGTACGGCTAATTAATTAGCCGGCATTATATAGCGCATATTAAT
ATCGGCTACGATATTAATATGCGCATATCGTACGTAATCGTATAGCGCCGGCCGCGATTAATATATGCTAATGCTACGATA
TATCGCGCGTATAATTACGATGCCGGCTATAGCCGATGCTACGATGCGCATATCGCGATATTAATCGATGCCGGCTACG
GCGCCGGCTAATTATAATCGCGCGGCCGTACGATTATATAGCCGCGCGTATATATAATCGCGGCGCTAATTAATTATATA
GCTAGCGCATATTATATACGTACGGCCGTAATGCGCGCATTACGATCGGCTAGCATATGCATCGGCTATAGCATATTAGC
TATACGGCTATAATGCGCATATATTATAATTAATATTAATGCTAATATGCCGGCATGCCGCGTATATACGGCGCATGCGCT
ATAATCGTAATCGTATACGCGTACGATTACGTAGCTATACGGCTAGCATGCGCCGTATAGCCGATTACGTAATATTATAAT
TATATATATATACGATTAGCTAGCCGGCATCGATCGCGCGTATAGCTAATGCGCGCGCTACGGCATATCGGCTAATGCTA
TATAGCGCCGCGTAGCTATAATGCGCGCGCTAATATGCTATAATTATAATTAATGCATATGCATTAGCATCGATCGCGCGG
CCGTAATTAGCTACGCGTATAGCTATATAATGCATCGATTAATTAGCCGTACGGCATGCTAATATATGCGCATCGCGTACG
TATATATAATCGATATATTAATCGTACGATTAGCTACGCGCGTATATAGCATCGGCTAATATGCTAGCTAATATGCTACGTA
ATTACGATATTAGCGCGCATTAGCGCGCTAGCCGCGATGCGCATATCGCGGCCGCGGCTACGTAATCGGCCGCGATAT
CGGCCGTAATGCGCGCGCGCATCGATCGTAATATCGCGGCCGCGTACGCGGCGCGCTACGGCATCGGCCGATCGCGT
AATCGTATAGCGCATCGCGATTAATTATATACGGCTACGTAATATTACGCGCGATGCGCCGCGCGCGGCTAGCGCCGAT
GCCGCGCGGCCGTAATGCTAATCGTAGCATATTACGGCGCTATAATTAATGCGCCGATCGATCGGCTATAATCGATTACG
ATGCATTATATATATAATCGCGGCGCTAATCGATTACGTAGCATATGCATATTATACGCGGCGCTAGCCGGCGCGCGCGCG
CTAGCGCTATACGGCATGCCGTAATGCTAGCCGCGCGGCCGATCGCGTAGCGCGCCGATTAATTACGGCGCGCATTAG
CATTAATTAGCCGGCTAATTAGCGCATCGTACGCGTAGCCGGCGCTAGCTACGCGATGCATCGGCCGATTATAATCGGC
TAGCCGGCCGCGATTAGCGCTAATGCTAGCTATAGCTAATTATAATCGATCGCGGCTAATGCATTACGTACGATGCGCCG
TAGCGCCGGCCGATGCTAATGCTATACGATTAGCCGGCCGATTAGCTATAGCTAATGCGCGCTAATATATTAATGCGCAT
ATCGTATACGCGATTAATATATGCGCCGATTAGCCGTAATGCCGCGATATCGTAATCGATCGCGCGTATATATATAGCTAG
CGCATGCGCTAGCCGATTACGGCCGATATATTAATGCTACGATATATCGGCTAATTAATGCGCCGCGGCTATAATGCCGT
ATACGCGATCGGCGCTATACGCGATGCCGATGCCGTACGCGATTAATCGATCGGCATTAGCCGATTACGTAGCTAATGC
CGTACGCGTATACGATGCTAGCCGCGGCATATTACGATCGGCTATACGGCATCGCGATATGCGCGCCGATATCGCGCG
ATATTACGTAATGCCGATCGCGGCCGCGGCTAATATGCATGCATATATGCCGGCTAATTAATATCGCGATGCCGATGCCG
TAATTACGTACGGCATCGATATGCATTACGTACGTACGTACGTATACGGCCGGCCGTACGGCCGCGGCGCCGGCCGGC
TAGCATATGCCGATGCCGATCGATGCGCCGATTATATAGCGCCGATTAATCGATCGGCTAGCATCGGCTAATGCTATAGC
CGCGGCCGATGCCGATGCCGTAATGCCGATCGCGATGCTATACGTATAATGCCGTATAATTATAGCTAATCGCGATCGC
GCGATATATATATGCTACGCGCGTATAATTAGCGCTATAATTACGTATAATCGTAATGCTAGCTAATTATAGCCGCGGCGC
GCATATATCGATTATACGTAGCATTACGTATATAGCGCGCATATCGCGTAATATGCCGGCATGCATATGCCGCGTAATTAA
TCGCGATCGCGCGTATAATGCTACGTAATCGATTAGCATTAGCATGCCGGCTAATATCGTAATATCGATCGTATACGTAAT
GCATCGTATAATCGTATATATAGCGCGCCGATCGGCTACGATATGCGCCGCGGCTATACGATGCCGTATAGCCGGCGCA
TCGGCTAATTACGGCTACGATATGCATTAATATATGCATCGCGATATTAGCTAGCCGGCTACGCGCGGCTAATTAATATTA
TATAGCATTAATCGATCGTAATGCATATTACGTACGGCGCATGCTAATTAATTAATCGCGCGATGCGCCGTATATAATGCA
TTAATTACGGCCGGCTAATGCATTAATATGCATGCATATCGTATACGTACGGCTACGTAGCATGCGCATTACGCGGCGCC
GATTACGGCATATGCCGTACGGCGCGCATTAATGCGCGCTAGCGCCGCGTAATATGCATCGCGGCGCGCATCGCGCGG
CCGGCCGTAATTAGCCGTAGCTATATAATCGGCATCGATGCATCGCGGCCGGCGCATCGCGTATATAATCGTACGATGC
GCCGTAATATCGCGGCTACGCGGCATATATTATACGTACGCGGCGCATATATTAATATTACGATTATATACGCGTAGCGC
GCATATTAATGCTAATGCTAATTAGCCGTAATGCCGGCGCGCTAGCATATCGTACGCGCGGCCGGCTAATCGGCGCGCG
CTACGGCATTACGGCATGCTAGCGCGCTAATCGATTAGCATCGCGCGATTATACGCGTAATATGCGCGCATGCGCTACG
CGCGTACGCGCGCGGCTAATGCATCGATCGCGCGATCGATCGTACGCGGCCGTAGCTACGTAATGCTATAATGCCGGC
ATATGCCGTAGCTAATCGCGATTACGCGGCTATATAGCCGATGCCGGCGCGCATTATAATGCGCTACGTACGGCCGGCT
AGCGCGCCGATTATAGCCGTATAGCTAGCATATATTATACGGCATGCGCGCATTAGCGCGCTACGGCTAATATCGTATAT
ACGTAATTACGGCATATGCATATGCCGATATCGGCTACGCGATCGGCATATCGGCATATTACGTATATACGTATAGCATAT
CGATCGGCTATATATAATGCATCGTAGCATCGTAGCCGCGTATAGCGCGCGCCGGCCGTATAATGCTACGCGCGATGCT
AATCGATCGTACGGCGCTATATACGCGGCTAATATCGCGGCCGCGTATAGCATTACGCGCGCGCGATATCGATTACGGC
GCATGCGCTAATCGTAGCATTATAATGCTAGCTAGCGCTATAATCGGCTATAGCTATAATGCCGATATATATATTAATCGG
CATTAGCATGCATCGGCATTACGATTATAATCGATCGGCCGTAGCTACGTATACGATTATAATGCCGCGCGATCGGCATC
GCGATTACGCGGCCGGCCGATATTAATTAATTATAGCGCATGCCGTAGCTATAGCTAATCGCGGCCGGCTACGTACGGC
ATGCTAATATGCATGCTATAATGCATATATCGGCGCGCGCTACGATTATATAGCCGGCGCTATAATCGGCTATAGCGCGC
CGTAATTAATCGGCATCGATATATTAGCGCCGTATAATATGCGCCGATCGTAGCTAGCCGCGATCGCGATGCGCGCGCC
GATATTACGTATAATATGCGCCGATTACGCGGCATCGATTAATGCATGCGCATATGCGCATTAGCGCTAGCTAATTATACG
GCATATGCCGATGCCGGCATCGCGCGTACGCGCGGCCGTAATATATATCGATATTATATAATATTAATCGTACGGCATGC
GCTAGCATCGATCGATATGCATCGGCGCGCGCGCGCATGCTAGCGCATTACGATATATATCGTAATCGATTATACGATTA
ATCGCGCGGCTAATGCATATATATATGCATATTAGCCGTACGATTAGCCGCGCGCGATCGATGCGCGCGCGCCGCGTAT
ATACGATATCGGCATATTACGCGTAATATGCATCGTAATTAGCATCGGCATCGCGTAATCGTATACGTAGCGCCGATCGT

ATAGCATTAGCGCTATACGCGATCGATATGCGCCGATGCTAGCTAGCTAATTACGATTACGCGATCGTAGCGCGCGCAT
CGGCGCATCGTAATTACGGCTACGATGCATTATAGCATCGCGCGGCGCCGTACGCGGCTAATTAGCGCCGTAATTATAC
GCGATTAGCTACGGCATTATAGCATCGATTAGCATGCGCTATAGCTAATATATATTACGGCTAGCTAATATTAATTATAGCC
GATCGGCTAGCCGTACGCGATATATGCCGCGTAGCGCTAATATGCATTACGGCATCGATGCTAATGCATCGATCGGCGC
ATGCGCATCGATGCATTAATCGTAATTAGCTAGCCGCGATTATAGCTAGCGCATTACGGCCGTATAATCGTAGCTAGCTA
GCATATATATGCGCATGCATTAATCGCGTAATGCCGTACGCGGCATGCTAGCATATATATTACGCGGCCGGCATTAGCGC
ATATCGGCATATTAGCTACGCGGCCGTAATCGGCATATGCGCTAATGCCGCGTATAATTACGTAGCATCGGCGCCGGCG
CGCCGTATAATCGTATACGATTATAATTACGGCCGTATAGCATTAATTAATCGATTACGATCGTAGCTACGTAGCTATAGC
ATGCGCGCCGCGCGTACGCGGCATATATCGTAGCTAATGCTATACGGCTATATATAGCGCCGATATTACGGCTAGCATC
GTACGGCCGTAATATTACGGCATTAATATGCTAATATATTAGCCGGCGCCGTATAATCGCGGCATTAATCGTATATAATAT
GCCGTAGCGCATATTAGCCGATATGCATCGCGGCTACGATTAATCGTATATAATCGTATATAATTAATTACGTAGCATTAC
GGCGCGCCGATATGCGCTAATGCTATATACGATCGTAGCGCATGCATCGTACGTACGCGTAGCATGCCGGCATATTATA
TAGCTATATAGCCGGCGCCGTAGCCGTACGGCGCGCATATGCTATAGCTATATAATTATATAGCGCCGTATACGTAGCCG
CGTACGATCGGCTACGTACGTACGATATCGATGCATTATATAGCATGCTAATGCTAGCGCCGATTAGCTATAGCGCATTA
CGTACGCGGCGCTACGCGGCATCGTAGCATATTAGCATTAGCATATGCTAGCGCCGTAGCTAATTAATGCCGGCATTAAT
CGATCGATCGTAATGCATTACGATGCCGTACGTACGGCATGCTATACGGCCGCGCGCGATTATAGCCGTAGCGCTAGCA
TATATGCTATACGCGTAGCCGCGTACGATGCCGATATTACGATGCCGCGCGGCTACGATCGGCGCTATAATTAGCATAT
CGTAATTATAATGCGCGCCGTACGTAATATGCGCGCCGTAATATATTAGCCGATCGCGTAGCTATAGCTAATTAATATTAC
GGCTAATATATCGTAATTACGGCCGGCTATACGTATATACGATTAATTACGCGGCCGGCGCATTAGCTACGATGCTATAG
CGCATTAATCGATGCCGTAATGCCGCGATGCCGATCGTATACGCGCGATTAGCCGTAGCGCATGCCGGCCGGCATTAAT
TATATATATATAGCATCGTAATGCGCGCCGATATTAGCCGCGTAGCGCTACGGCATATATGCATGCCGTATAGCTATAGC
CGGCCGCGTAATATATGCATGCCGATGCTAATGCCGATCGATCGCGCGATCGATGCCGGCTATAGCTATACGATTATAG
CATGCCGTAGCCGATATGCGCCGTAATGCGCGCGCATATCGTACGGCGCTACGGCATCGGCATCGTACGGCATCGGCC
GTACGTAGCGCTACGGCTACGATCGATATCGGCGCATCGGCCGTATAGCGCCGATATCGCGTAGCTAGCATTAATCGAT
GCTATACGGCATCGCGGCATATGCGCTATAATATTACGCGATGCCGGCCGGCCGTATAATGCGCTACGCGATTAGCATC
GATGCTAATATCGGCGCGCCGGCGCCGATATCGTATAGCCGATATATCGTAGCTAGCTAATATTACGGCATATCGGCTAG
CCGATATGCATGCATATATATTAGCATATCGCGATATCGTACGGCATATTATAATGCCGTACGTAATTACGGCCGCGTAAT
ATTAGCGCCGATCGGCGCCGCGATGCTATATAGCCGGCTATAATGCTAATGCATTACGGCGCGCGCCGTACGTACGGC
TAATGCGCGCTAATGCGCCGTAATTACGATGCATCGTACGATGCGCCGATCGATATGCCGGCTAGCTACGGCATGCTAT
ACGGCGCTATACGCGGCCGTAATCGTAATGCATATCGGCATCGCGGCGCGCATCGGCCGGCTAGCTAATGCCGCGTAT
ACGTAATGCATTAGCTACGATGCGCCGGCTAATATATATCGTACGCGTAGCGCATATCGATCGCGCGGCTAGCGCATGC
CGGCATGCCGGCGCGCTAGCATCGGCGCATCGGCATATATTACGGCGCGCGCGCTATATAGCATCGATCGCGATGCTA
TATAATATTATAGCGCGCTAGCCGCGATATTAATATATCGGCTATATAGCGCTAGCGCGCTAGCGCATATATTAATGCGCT
AGCGCATGCGCTACGCGCGGCCGATATTATAGCGCTACGGCATATATTACGTATATAATATGCATATCGATGCTAATATG
CTAATATGCTAATCGTAATGCTATACGTAGCGCTAATATATCGCGCGATTATAATATATCGCGTAATTAATTATAATGCTAAT
CGATATTACGTAGCCGTACGTAATGCTATATATAATATTAGCGCGCATATCGTACGGCTAATATTAATTAGCGCTAATTAAT
TAGCGCATGCGCATATTAGCTAGCTACGCGGCTACGTAGCCGTACGATCGCGTATAATATCGATCGATTAGCCGCGTAAT
TATATAGCTACGATGCCGATCGATGCTACGCGATCGCGATGCTAATGCGCATATTAATGCTACGATCGCGTAATGCATCG
CGATGCCGCGATATTAATCGTACGTATACGATATTAATATGCATGCCGATGCGCTATAATTAATGCCGGCTACGTATAGCC
GTAGCGCGCATATGCCGGCGCTAATATATCGGCGCTAATCGATGCTACGTAGCCGCGTAATCGGCTATAGCGCTAATGC
TAATTACGATATGCATATGCATTACGATGCCGATATCGTAGCCGGCCGTAATATATTAGCATTAGCGCATGCGCTATAATT
ATATAATTATATAATCGTAATTACGGCTACGTAATATTATACGCGTATACGTACGGCCGCGCGGCGCGCGCATCGGCATT
ACGGCCGGCATGCGCATTAGCTATAGCGCTAGCCGGCCGTAGCATGCGCATATTAATGCGCTAGCCGTATACGATTAAT
ATCGGCCGGCTAGCTATATATAATATTAGCTAATCGATCGCGATTACGTATACGATATCGTAATATATCGGCATATCGATAT
CGGCCGCGTACGGCCGGCGCTACGCGTATAGCTAGCCGATATATATATCGATGCGCATGCCGTAGCATGCGCGCGCTA
CGATCGCGCGCGATCGATTACGGCCGATATATATGCATTATACGATTATAATATCGTATACGGCCGTACGCGGCCGATAT
GCTACGGCATGCGCGCTATAGCCGCGATATTACGTAGCATGCCGATATCGTAATCGCGATCGATGCATATGCATTAATTA
ATTATACGCGTATACGTATAGCGCCGATATATCGCGGCCGTAATGCATCGTAGCGCGCTACGCGTACGATTAATATTAGC
TACGTACGTAGCTAGCATGCGCTAATCGCGGCGCTATAGCGCCGATCGATTAGCTACGATTATAGCCGCGCGCGTAATA
TTAATTATAGCATATATCGTAGCCGATATTACGGCTAATTAGCTATATACGATGCGCATTACGATCGATCGCGTAGCCGAT
CGTATATATACGCGGCATATATATTAGCTAATATATTATAATATTATAGCCGGCATATATGCTAATGCGCGCCGATTAAT
CGGCCGCGGCTAATGCATTAGCGCATTAGCATCGGCGCTAGCCGGCGCCGGCATCGCGGCGCCGATGCTATATACGAT
GCTAGCCGGCCGATCGATATGCCGCGGCATTACGGCATTAATATGCATTATAGCATGCGCCGCGGCCGTAATCGCGGC
ATATATGCTACGGCATATGCGCCGGCATATGCGCATGCTATATACGTAATGCCGCGATCGCGATCGGCTATACGATTAAT
CGATATTAGCATGCTAATTACGATGCATGCATTACGCGATTAGCCGGCCGATTAGCGCATTACGCGTAGCCGATTAATCG
GCTACGGCTACGTAGCTATACGATATTACGATCGCGATCGCGGCATCGATGCATTAATTAGCGCCGCGCGTATATAGCTA
TATAGCTAGCATTACGGCGCTACGGCATGCCGATCGTAATATGCTAATTAGCGCATCGCGGCATATCGATGCATCGGCC
GATTATACGATATGCCGCGTAGCCGGCGCCGGCATGCGCGCGCGCTAATATCGATATTAGCATCGCGCGCGGCATGCC
GTACGTAGCATCGTAATTACGGCATCGGCGCGCATTAATTAATTACGGCATTAGCTAGCATGCTACGGCTAATATATATGC
CGGCCGCGCGATTAATATATTATACGCGCGCGGCCGATCGTACGCGATTAGCATATGCATGCCGCGGCCGATCGGCAT
GCATCGCGGCATTAATGCATTAATCGCGGCGCGCATTAATTATAATTAATCGGCATGCGCCGCGATGCCGGCCGATGCG
CGCATATCGATGCCGTAATATCGATCGCGTAGCTACGCGATGCGCATTAATTACGATATTAATTACGCGTAATCGGCTAAT
CGATGCTAGCGCGCGCGCGCTAATTACGGCTACGATTAATCGTAATCGTAATATGCGCCGCGCGGCATGCATATCGATT
ACGATCGTATATACGTATATACGATTAATGCCGGCATATTAATGCCGGCATTATACGTATAGCCGGCTACGGCCGGCCGT
AATTAATGCCGATTATATAGCGCTATATACGATCGTACGGCTATAGCATTAATTACGTATACGCGTAATGCTACGCGATAT
CGTACGCGCGTACGCGCGATTAGCGCCGATGCGCCGATGCTATAGCCGGCTAATATCGGCTAGCATCGCGGCGCTACG
CGGCATCGGCCGGCTAATCGTATAGCCGATTACGTACGTACGGCCGCGTAGCATCGATGCCGATTATACGGCGCCGGC
TATAATTAATGCTAATTAATCGATATGCCGCGATCGGCCGGCTACGTATAATGCCGATATGCCGCGCGGCTAATCGATTA

TAGCCGATCGCGTACGGCGCCGCGATATCGTACGTAATGCCGTACGGCATCGTAATGCTACGCGTACGTAGCGCTACG
CGGCATCGCGATATGCTACGTAATATATGCTAATCGTATACGGCTATAGCGCATATATCGCGTAATGCCGTATATACGGC
ATGCATGCTATAGCGCATTAATATCGGCATATTATATATATAATGCGCTACGGCATGCATATGCTAGCTATATATACGATCG
TACGTAGCATCGTAATATCGGCTATACGCGCGATTACGTAATGCGCTAATATGCGCATTACGCGATTAGCGCTAGCGCCG
GCATCGCGTATAATTACGTAATGCATCGGCATCGGCCGTATAATCGTATAGCTACGGCATGCCGTAATATTACGATTACG
GCATTAATTAATCGTACGTACGTAGCGCATTAATATATATGCATGCATATCGGCCGATTAATCGATATCGCGATATGCGCA
TTATAGCATATCGCGTATATATAATGCGCCGGCGCCGCGCGTAGCCGGCATGCATATGCGCTAATGCTACGTAGCTAGC
GCTATAGCATCGATCGGCTAGCTATAGCTATAATTAATATCGTACGCGTATAATGCGCGCTAGCGCTATATAGCGCATGC
TAATTATATAATTACGATATGCTAGCATATCGCGATTACGGCGCCGATTATATACGGCCGCGCGGCATATGCTAATCGGC
ATATATCGGCTAGCCGATGCGCCGTAGCTATATACGCGTACGGCCGGCATGCTACGCGTAATATGCTATAGCATGCATAT
GCGCGCCGGCATATATTATACGATCGATGCTACGATATCGCGCGCGGCGCCGATCGTACGCGTAATATTACGCGCGCG
CGCGGCCGATCGCGCGCGGCCGGCCGCGTAATATCGCGATCGCGGCGCGCTATAGCATTAATGCATATGCCGATTACG
GCGCCGTACGCGGCATCGTATAATGCATGCCGCGGCTACGCGCGATATTACGATGCTACGTAGCTACGGCTACGATTAA
TTAATATGCTATAATCGCGTAATCGATGCTAGCCGTATAGCGCTACGGCCGATGCATGCGCCGGCATGCATCGTAGCTA
GCCGTAATCGCGTAGCCGATATCGATTATAGCATCGATGCCGCGGCATGCATGCTATATAGCATCGGCTATAGCATATTA
ATTACGATTACGGCATCGTAGCTATATAGCGCCGGCTAATATCGCGGCCGTACGGCGCCGCGTAATATGCGCGCTAGCA
TCGGCGCGCGCCGCGCGCGATATATCGCGCGTACGCGCGGCATATATATATTACGTAGCGCATTACGGCCGATATATC
GTAATGCCGTAATGCTACGATCGCGCGATTATAATTACGGCTAGCGCGCCGGCCGATATTATACGATCGTAGCTACGCG
GCGCATATTAGCCGTATACGCGTAGCATGCTAATTAATATATGCCGGCATCGGCCGATCGTAATTAATCGCGCGTAATTA
CGTACGCGATGCTAGCGCATCGCGGCTAATGCCGTATACGCGATCGCGTACGATTATAATTAGCATCGATGCTATATAAT
TAATGCGCTAATCGTAATTATATAATCGGCGCTATAGCGCGCATTAGCCGATATCGCGTAATATGCTAATTAGCGCTACGG
CATTATAATGCGCGCATTATAATATCGGCATTAATATATGCCGATTAATGCGCTAGCATCGGCCGATCGCGTAATCGGCC
GTAATCGCGCGTATACGTAATTAATCGATCGGCGCTAATGCTAGCCGATGCCGATCGTATAATGCCGATGCGCCGCGCG
ATTAATTAGCATCGTACGTAATCGATTACGGCGCATCGGCCGCGCGGCGCGCCGGCTAGCGCCGGCATGCTATAGCAT
GCCGGCATATTACGGCATATATGCCGATTAATCGTATAATCGGCATGCCGCGATGCGCATGCATTAGCTAGCTAGCCGAT
CGATATATATGCGCTACGTACGGCTAGCATGCCGATCGATGCATCGCGCGTACGATATCGCGCGCGGCATGCGCGCAT
ATATCGGCGCTATAGCTACGTATAATTAATTAATTAATATCGTATAATATCGGCGCTAGCCGTAGCCGCGGCTACGCGATG
CATGCCGTACGGCATATCGCGGCCGCGATTACGCGGCTACGATTAGCTAATTAGCGCGCCGATATCGGCGCATGCTAAT
ATGCATGCCGGCGCATCGTAGCGCGCCGCGATGCATTATACGCGGCTAATATATTATATATAATTACGATATATTAATTAATA
TGCATCGTAGCATTATACGGCGCCGGCCGTAGCTAATTAGCGCATATGCGCGCATTAATATTATACGCGATCGATCGGC
GCATTATACGGCATGCCGCGATATTATACGCGTAGCCGGCTAATATTAATATTACGGCGCTACGATTACGTACGTATACG
CGATTAATGCCGTAATTACGATTACGATATCGATGCGCTATAATGCTACGATCGGCGCTAATCGCGCGTAATCGCGGCTA
GCCGTAGCTAGCGCTATAGCGCCGTAGCGCCGATCGATGCTACGGCATCGCGATTATAATATCGTAGCGCATGCTACGT
AATGCATGCATGCATTAGCATGCATTAATTACGCGCGCGGCTATAATATGCTACGTAGCCGCGTACGCGCGTACGGCCG
ATGCGCATCGATCGGCATCGCGATATGCTAGCTACGATATGCGCCGTAGCATGCATGCATATGCGCTATAGCATTAGCC
GATCGATCGCGGCATGCGCCGCGGCCGCGTAGCTAGCGCGCTACGGCATATCGATTAATCGCGTAGCCGGCCGGCTA
TAGCATGCTACGGCGCGCTAGCGCCGTATAGCATATGCGCCGCGCGCGGCGCTATAATCGGCTAATTAATGCGCTATAG
CTACGGCTAGCGCCGATGCATGCGCATGCCGGCTAATTACGATTACGGCCGCGGCATCGATTACGCGGCTACGCGGCC
GATGCGCTAATTATAGCTATAATGCCGTATATACGGCCGATGCCGGCTATAATCGATCGATATATGCCGGCTAATTAGCC
GATGCATTACGATGCTATATAGCATTAATGCTACGATATCGCGATGCTAATGCCGTAATTACGGCTAGCATATATTACGCG
CGGCTAGCCGATCGATGCTATAATGCGCTACGATATCGTATACGTACGTACGGCCGGCTAGCGCTATATAATCGTATAGC
CGTAGCTATATAGCATCGCGTACGATATTAGCTAATTATACGATATTACGTACGTATACGATATATCGCGGCATATTAGCC
GCGTAGCATGCATCGTAGCGCGCTAATCGTAGCATTAGCATTACGCGCGTATAATTAATTAGCATATATGCATGCATCGAT
CGCGATATTAATCGATTACGTAATATGCGCCGATCGGCGCTAGCTATAATTAATTACGGCCGTACGTACGGCTATAATCG
GCTATATATAATCGTATACGTATACGCGTATAATCGGCCGGCATATATATATCGTACGATTAATATCGTAATGCCGGCATC
GCGATATATGCATTAGCCGCGTACGCGTACGCGCGCGATATGCGCTACGATGCGCATTATAGCATATATTAGCATGCATC
GCGCGTAATTAATTAGCCGTAGCGCATGCTAGCATATCGATATTAGCGCGCCGGCGCTAGCGCTAGCTACGATCGGCGC
CGATCGGCGCGCGCCGCGGCATTATAGCGCATGCTAATCGCGTACGTAATGCATGCGCTATATAATCGTAGCATATCGT
AATGCATCGGCGCGCATTACGTATAGCGCATATGCGCATTACGATCGATCGCGGCTACGGCGCCGTAGCGCCGCGCGC
GTAGCATGCATATATGCTATATAGCTATACGATCGGCGCTACGTAATTAGCCGCGTAATTATACGATCGGCTAGCTAATTA
ATGCATTAATGCGCGCGCGCCGGCCGATCGCGCGTAATGCGCATCGCGATTAATGCCGCGTACGATTAGCATATATGCC
GGCCGGCGCTAGCGCCGGCGCCGTAGCCGTACGTAGCATATCGGCTAATATTATACGGCATATTATAGCGCGCGCATG
CATATATGCTACGGCGCTAATTAGCCGATGCCGCGTACGGCATCGGCCGTACGATTAGCATTAATATATTACGTACGATT
ATAATATTAGCGCGCCGATATGCATATTATAGCTATAATCGGCGCGCTAGCCGGCTATATACGTACGCGTAATGCATTATA
TATATATATATATACGCGCGATCGCGGCATGCATGCGCGCATGCGCATGCATTAATTATAATATGCATCGCGTACGTACG
GCTAGCGCATATCGTACGGCTACGCGATGCATATTAATCGCGGCTATAATGCTACGGCATTATAATATTAGCATGCATCG
TAGCCGATCGATGCGCATCGCGCGTACGTACGGCATGCCGTACGGCCGTATAGCTACGATGCCGATTAGCGCGCTAAT
CGCGTAATTAATGCCGATCGGCCGTAATATGCCGCGCGCGTAGCATATTATAATATTACGATATATTATACGGCTATACGG
CGCATCGGCCGATTAATGCTAGCGCTATAGCCGCGTATACGCGATGCGCATCGTATACGCGATGCATATCGTACGATGC
CGATGCGCATCGCGCGCGGCTAATATATATGCTACGGCTAGCGCCGCGGCATTAGCCGTAATCGATGCGCATATGCATC
GTACGATTAATGCTATAGCGCATTATATAATCGGCCGTAATATTAGCCGGCTATAATATTATAATCGGCCGGCCGTAATGC
GCATCGTACGGCGCATCGCGGCCGTATAGCCGCGCGTACGGCCGATTAGCGCTAGCGCATGCTATAATGCATGCGCTA
TACGATATTAATGCGCTAATATATCGCGCGATTATAATGCATATATTAATATATGCCGATCGATGCATCGCGTATAATTACG
CGGCCGGCGCCGCGGCTATATAGCATGCATGCCGCGTAATATGCGCTACGATCGCGTATAGCTAATATATGCCGCGGC
CGTAGCATCGATGCTAATCGGCGCCGCGCGTAGCGCGCATATTAATCGGCGCTATAGCCGATGCATGCCGTACGGCTA
ATTATATATAGCATATTATAGCTAGCTAATATATGCTATAATCGTAATCGATGCCGCGCGCGTAGCATATTATAGCGCCGG
CTAATATGCATTAATTAATTAGCCGGCGCTAATATGCTACGTAATATGCGCTATATAATCGCGATATCGTAGCCGTAATCG
CGTATAGCTATATAGCTAATTACGGCATGCTATATATAGCCGTAGCGCCGCGATCGATATTAGCGCGCTAGCATGCCGGC

ATCGCGGCCGGCCGTAGCGCCGTAATGCTAGCCGTACGTAGCTACGCGATCGCGCGGCTAATGCATGCTATATACGTA
ATTATAGCCGCGATATGCCGCGATATCGCGTACGTACGGCCGATATCGTATACGGCTACGTAGCCGTATAATATCGCGG
CTAGCCGATCGCGTAATCGCGATATGCGCATGCATCGCGTATAATATGCATTATAATGCCGTAGCCGCGTAATATTAGCA
TATTAGCCGCGATCGGCCGTAATTACGGCCGGCGCGCCGTAGCATGCTACGGCATTATATAGCTAATGCGCTACGTACG
CGGCGCGCTAATCGCGCGGCTAATATCGGCATTAGCATTAGCATTACGCGGCCGTACGCGTAGCCGCGTAGCTAATCG
ATGCCGTAATATATCGGCCGGCATCGTAGCTAATTATAGCTAATATCGCGATCGCGTACGATGCCGGCCGGCCGTATATA
ATCGGCCGCGGCGCCGATGCTAATATATTACGATTACGCGCGTATACGATGCATATATCGCGATTAATCGGCATCGCGAT
TAGCCGGCATGCTACGCGGCTAGCTATAATGCTAATTATAATATTATATAGCGCATATTAATATCGGCGCCGGCCGATCG
CGGCATTATAGCGCTACGATATATATGCCGATATCGGCCGATGCGCTATACGGCATTAGCGCCGGCCGGCATGCATTAG
CTACGATCGATTAGCCGTAATTACGCGTAATATGCATATGCCGGCCGCGTACGGCCGTAGCTAATATTAATGCATCGTAA
TTAATGCGCGCATGCATGCATGCATCGTAATTAGCATCGTAGCCGTAATCGCGTAGCGCTAATATCGATTAATTATACGAT
CGGCCGATGCTAGCCGCGTAATATCGTACGGCGCGCCGATTAGCGCCGTAGCATGCCGATCGGCGCATGCTAATCGAT
TATATATAATATGCCGCGATGCGCGCATGCTAATCGATGCATTAATGCTAATCGTAATCGTAGCTATAGCCGGCGCTATAT
ATATAATGCCGTACGTATAGCATTACGTATACGGCGCGCGCTACGGCGCGCTACGCGATGCATCGATGCTAATCGATAT
CGATGCGCTACGTATAATGCTAGCGCATATGCTATATAGCATTAGCCGTAATGCGCGCCGGCCGCGATGCCGGCCGGC
GCATATATATATGCTACGGCGCCGATCGATATCGATGCATCGATGCGCCGTAGCGCATATCGCGTAGCTACGGCTATAAT
GCTAATGCCGTAATGCCGCGATGCGCGCTACGCGTAATCGTATAGCATGCATTAATATCGATGCATTATAGCATATATCG
ATCGATATCGGCATGCTATAATCGTATAGCGCGCATTAGCGCCGGCTACGATTAGCATTAATATGCTAGCTAGCATATATG
CTAGCATTAGCTACGTAATATCGCGATTAGCTAGCGCTAATGCGCATCGATCGCGGCGCATATCGGCATCGGCCGCGCG
TAGCGCATATGCCGTAGCTACGGCTACGGCTACGGCCGCGATTAATGCCGTAGCCGTAATTAATGCGCATATTACGTATA
TACGGCATTAGCATTAATATCGGCGCATTACGATATATCGATATTAATCGCGATGCCGTATAGCGCATGCCGTAATCGGC
ATCGGCTAATCGATGCGCATATATATGCATGCCGATCGATCGTATACGCGTAATCGATCGCGATGCGCCGCGCGTACGT
AATGCTATACGCGGCGCATGCTATATAGCGCATTAATTAGCTAATGCCGCGTAATATCGCGCGGCTATATAGCGCATCGG
CGCGCATCGATATCGATCGTATACGGCATTACGTATATACGTACGTATAGCATCGATTAGCCGGCATCGATATATATGCC
GATGCCGTAATTAGCGCATTACGTAATCGATCGCGCGTATATAGCCGTATAATTATAATATTACGCGATGCTACGATTAGC
ATATGCTAGCTAGCGCATTAATATTAATTAATTAGCCGCGATTACGATATGCTAGCGCGCTAATGCCGTATACGCGCGGC
CGGCGCATGCGCTACGATCGTACGCGGCCGTATATAATGCGCCGGCGCATTAGCATTAGCATATCGGCCGGCGCATTA
ATTAATTACGGCATCGATCGATCGCGGCTACGGCTAATCGCGGCCGCGTAGCGCCGTATAATATATGCGCTACGATGCG
CATGCGCGCTATAGCCGTACGTATACGATTAATGCGCCGTAGCTACGTAGCATCGATGCATATATGCATCGTATAATATTA
TAATTACGGCATGCATCGATGCGCGCCGCGTAATATTAATATATTAATGCGCCGCGTAATTAATCGCGCGATATCGATGC
ATTAATGCCGGCTAGCGCGCCGTAGCATATCGCGTAGCCGGCTAGCGCCGCGGCTAGCTAATCGGCTAATATGCGCTA
ATCGGCTATAATGCCGGCATGCTATATAATGCTATATAATGCGCTAATATATATTACGGCTAATGCCGCGTACGGCTAGCA
TATTACGATCGCGATGCCGATATTATAATCGATTACGGCTATAATGCCGATTACGGCATGCATGCATCGATCGCGCGATA
TCGCGCGTATAGCGCATGCTATAATGCGCATGCCGCGGCGCCGCGGCATGCCGGCTACGATGCTATAGCATCGTAATA
TTAATATGCATGCGCGCATATGCATATGCATCGCGCGGCTAATATCGTAATGCATGCGCATGCGCCGGCATATGCGCCG
CGCGGCTATAGCATTACGGCGCATGCATCGATCGATTACGCGTACGATTATAGCGCGCTATATATACGTATACGATGCAT
ATCGCGATGCTAGCCGATTAATATATCGTAGCGCTACGATGCATCGGCTATAGCTATATATACGTAATATGCATATTAATAT
ATTAGCATATCGTACGGCCGTAATTACGATATTAATATCGATTAATCGATGCTATATATAATGCGCCGTACGATTAGCTACG
CGTATATAGCGCCGGCATTATACGGCGCATGCATATCGGCATGCCGTAGCGCGCATATGCGCATGCATGCTACGGCTAG
CTACGATATCGGCTATAATATGCTAGCCGGCCGATCGATGCCGTAGCTAGCCGCGGCCGGCTATAGCGCTAATGCTACG
GCTAGCCGCGATATCGCGGCCGATTACGATCGTAGCATTATAATGCATGCGCGCGCTAATTATAGCGCGCTACGCGGCA
TTAGCATGCTAATCGGCCGGCCGGCCGATGCCGATTACGCGCGTATAATCGTAATTAATATTAGCATATCGTAGCCGATT
ATAGCGCGCGCGCGCTAATTAGCCGTAATATGCTAATTATAATGCCGCGATGCGCCGCGATTAGCTAGCCGCGATGCGC
TATAGCGCGCATATATTAGCCGCGATGCTATAGCCGCGCGATCGGCCGCGCGGCATTACGCGATGCTAATGCTACGGC
ATCGTACGTAATCGTATAGCGCCGCGTAATCGGCTAATTACGTATAATATCGATCGGCATCGTATACGATATTATAGCATG
CCGCGATGCGCCGGCGCCGATGCGCGCCGGCCGATCGCGCGCGGCTATATAATGCTATAGCTAGCCGCGATTACGCG
CGGCGCCGGCGCGCGCGCGCGCCGGCATTAGCTATAGCATTAATATGCATGCATCGCGATGCTAGCGCCGATTATAAT
GCATTAATTATACGGCCGATGCGCATCGTAATATCGCGGCCGGCCGGCTAATTACGGCCGTAGCTAATGCTAGCCGATA
TTAATTATAATATATGCCGCGGCGCTATAATTAATATGCATCGGCGCATTACGCGTAATTAGCTAGCATTAATTAATGCGC
GCGCATATGCTATAATTAGCTAATATTATAATATATTACGGCGCTAGCGCGCCGGCGCGCATGCATCGATGCGCATCGAT
TAGCCGGCCGCGATGCTAGCATGCGCTAGCATCGCGATTATACGTAATATGCATTAATGCGCGCTAATCGATGCGCTAG
CTATATATATATACGTAATTAATATCGATTAGCTACGTACGTAGCCGGCCGATATTATATAGCCGCGGCATATTAGCGCGC
GCTATAGCATTAATATGCGCTAGCATTAATCGATCGGCATATGCATCGGCGCGCATGCATTAATCGGCTAGCGCGCCGTA
TACGTATATAGCGCTATAATCGGCCGTAATGCTAGCTATATAATATGCGCGCGCTATAATGCGCTAATGCATGCTACGGC
GCATCGTAGCTACGTATACGGCTACGCGCGCGCGATGCGCCGATTATAATCGTATAATATATATCGTAATATTAGCCGAT
ATTAATTATAGCTATAATCGATGCATGCATGCCGATATGCGCGCCGTACGTAATATTACGGCTAGCTAATGCATTACGTAT
AGCTACGATGCTAATGCGCCGCGGCCGTAGCATCGGCTACGGCGCATGCTAGCATTAGCATTATACGTAGCGCCGTAAT
ATCGGCGCATTACGTACGTATATATATAGCATCGCGGCTACGCGATATGCCGTATAATCGCGGCATCGATATTACGCGGC
ATGCATGCCGCGTATAATCGGCATTACGATTAGCGCCGTAATCGCGTATATAGCATTACGTAATTACGCGCGCGGCATAT
CGTAATGCGCCGGCGCATATCGTAGCTAGCCGATTATAGCATCGATATATCGATCGTAGCATCGCGTATAGCTACGCGTA
CGGCATATATTAGCATATCGGCTACGCGCGATGCCGTAATTAATGCCGTAATCGCGTAGCTAATCGGCGCATGCCGATG
CCGATCGTAATCGTAATTAATATTATACGTATAGCATATCGTAATGCCGTAATTATAATCGCGATTATAGCATTATACGCGC
GTATATACGCGTAATCGTATATAGCATGCCGTAATTATAGCGCGCTACGTACGTATATACGATGCGCCGGCCGCGTACGA
TGCTAATGCCGGCCGATATGCATCGTATAGCGCATTAGCCGGCCGTAGCTACGCGCGATCGGCATGCATTATACGGCG
CTACGGCATGCATGCGCTAATTATAGCTAATTACGATATATATATGCGCATCGGCCGTACGATGCCGGCCGTACGCGTAG
CATCGTAATATCGGCCGGCTATACGTAATATATTAGCTACGTATATAGCTAATATGCGCCGTATAATTACGATATCGGCTA
ATATCGCGCGATCGTACGGCTAGCCGGCTAGCCGCGCGCGGCATATCGTACGATTAATATCGCGTATAATGCATGCTAA
TGCATATCGGCCGGCTAGCTAGCCGCGATTACGTATATAGCTAATATGCCGTAATCGGCCGCGTATAATTAGCTACGGCA

TATTATATACGATGCGCCGGCATATCGCGCGTAATGCGCTACGGCTATAATCGCGTAGCCGGCATTACGTACGCGCGTA
CGGCGCGCTACGTAGCCGGCCGATATGCTAGCATATCGGCATTATAGCGCATATCGTACGGCATCGGCTAGCGCTATAA
TCGATGCCGATTATAGCGCTAGCTAGCATTACGTAATGCGCTACGTATAATGCATATCGTACGATCGTACGGCATGCTAT
AATATATGCCGGCGCGCGCATGCATGCGCGCTAGCATCGGCTAGCATATTAGCATCGCGTAATCGTACGCGATTAGCGC
CGCGCGTACGTACGGCATTATATAGCGCATATATGCATCGTATAGCATTAATGCATTATACGTACGTACGGCATGCATTAC
GCGATGCGCATATTAATATGCGCTAATATTAATCGCGGCCGCGTAATGCGCGCCGGCGCTATAATATGCATTACGCGCG
CGTAATTACGTATAATATTACGATGCCGCGTATACGTATAGCTATAATATTAATATGCTATATACGCGATATTAGCTAATATC
GTAATCGATGCTAATTACGGCTAGCCGTAATATATATCGCGATTACGATATGCCGGCTACGATCGCGCGTAATATATATAT
GCTACGTATAATATGCCGCGGCATATCGCGGCATTAATTAGCGCATGCTACGCGTACGATATTAATTATAATGCGCGCAT
GCATTAGCCGGCGCGCTAGCCGTACGTATAGCCGGCATCGTAGCGCGCTATAGCGCATGCGCTAGCGCGCGCTAGCTA
ATGCTACGGCTATATACGCGTACGATGCCGCGATTAGCCGGCTAGCCGTAGCTAATGCTATAGCTATACGATATATTACG
TAATGCATATGCATTAGCATGCTACGGCATTAGCTAATATGCGCCGATCGTAGCGCCGGCTATAATGCTACGTAGCGCTA
TACGATATTAGCATTATACGTACGTATAGCGCATTATAATATGCATATCGTACGCGTATATACGGCGCGCTAATGCTAATTA
ATGCCGATTAATGCCGGCCGCGTACGCGCGATGCTACGGCATCGATTAGCTATAATGCCGATGCTACGTATAGCCGATA
TCGGCGCGCTAATCGTATACGATCGTACGGCCGCGATTACGGCCGATGCTAGCTAATATCGCGTAGCATCGATTAGCTA
ATGCCGCGCGATGCCGCGGCCGCGATATTAATCGGCCGATTAGCTAGCGCTAGCTAATCGATGCTAGCCGATCGCGAT
GCATTAGCTAGCTATAGCCGGCTAGCCGCGATCGTAATATCGATTAGCCGCGTAATATATATGCATTACGATGCCGCGTA
ATGCTATACGATGCCGTATATACGTATAATCGATTATAGCTAGCCGTAGCCGTACGATCGATGCATTAATATATTATATAGC
GCGCATATTACGTAATCGGCGCTATAGCGCCGATTATAGCATTAGCATTACGGCGCTAATTAGCTATATACGATATATGCT
AATGCCGGCGCCGTACGTATAATTACGATCGGCTATAATCGGCCGCGCGCGCGCGGCGCATCGGCTATAATGCTATAC
GCGCGGCATATCGATCGTAGCATCGGCATTAATTATACGTATACGTACGGCTACGTAATTATATAGCTATATATAATATGC
GCTACGTAATCGGCATGCATCGCGATCGTACGATGCGCTATAGCATCGGCTACGGCCGATATTATATACGGCCGGCTAC
GATCGATCGGCTATATAGCTAGCGCATCGTATAATGCTAATCGTAATGCGCATCGCGCGCGGCGCGCATTAGCCGCGCG
TAATATGCCGGCTACGATTATACGCGTATACGGCTACGATTACGGCCGTATAATTAATTATATACGCGTACGATCGCGTAC
GGCGCCGCGATTAATCGCGCGCGGCTATACGCGCGCGTACGGCTAATGCCGGCCGTACGCGGCCGATATTATAGCGC
GCATATTAGCCGGCTAATCGATGCATATGCTATAATCGGCATCGTATAGCATCGATGCGCCGCGTACGCGCGTACGCGC
GATATTAATATGCCGCGTATAATGCATTACGGCATTAATCGATATGCGCATATCGTATATAATATGCCGGCCGCGCGCGAT
TACGCGATCGTATACGCGGCGCTATACGGCTACGGCTAGCATATGCGCCGGCATATGCTACGTAGCCGATGCGCATATC
GTAGCCGGCGCTACGGCTATAGCATGCATTAGCATATTACGGCCGATATATTATAGCGCCGATCGGCCGGCATATTACG
TAATTAATATCGGCCGGCGCTAATCGCGCGGCATTACGATTATAATTAGCCGGCATGCCGATCGTAGCGCTACGGCTAG
CATATCGTAGCGCTAGCTAGCGCCGTATACGCGTATACGATGCATATCGATGCATGCTATAATTACGGCGCGCGCGCCG
GCGCATCGGCATGCGCTACGGCATTACGCGGCATTAATATTAGCGCCGCGGCGCGCATGCGCGCATCGATGCATATCG
CGGCATTACGCGTATAATCGCGTAATTATACGATGCTACGGCCGTATAGCATCGCGGCATATCGATTATAGCTAATTAATT
AATTATAATATCGCGATTACGGCTAGCCGCGTACGTATAATGCGCATCGATATCGATTAGCCGCGATATGCATGCTAGCA
TCGCGATGCGCGCGCCGTATAATATGCTAGCTATACGATCGGCTATATACGGCGCGCATCGCGCGGCATGCGCGCGCC
GATTACGGCCGATTAATGCATATTAATATATTACGGCTATAGCATTACGATATCGGCATCGGCTAGCTATATATAGCTAATG
CATCGATATTATAATTAATATGCGCGCTAATGCCGATCGATATATATGCTATATATAATTAGCCGTATAGCATTAATGCATAT
TACGCGCGGCATCGGCTAATGCATATTACGATTAATCGGCGCCGGCGCGCGCGCGCATCGGCGCATCGGCTACGGCG
CATATGCATGCGCATTACGATCGCGTAGCATGCATCGCGCGGCATTATATAGCTATAATCGGCATATCGATATGCGCTAA
TATCGTAGCTATACGCGCGTATATATACGATGCCGTAATTAATGCCGATTAGCTACGCGATATCGCGGCCGTAATGCCGG
CATTATAGCGCATCGCGGCATGCCGTACGTAGCATTATAATATTACGTATATAGCCGCGCGGCCGTAGCCGGCCGGCTA
GCTAATGCTAATGCCGCGTAGCCGCGGCGCTACGTACGATCGGCATCGCGTATATAGCATGCCGGCCGTATAGCCGTA
TAATCGATATTATACGTAGCATCGATATATGCTAATGCGCGCATATGCGCTACGCGCGGCATATTATACGTAATTATAGCA
TATCGATTACGGCATATCGATTAGCATATGCATCGATCGGCATATGCTATACGGCCGCGCGATTACGGCCGTAATGCGC
CGATATGCCGGCTATATAATTAATCGGCTACGTACGATTAGCCGATTACGATGCATGCTAATCGGCGCATGCGCATTAGC
ATGCTATAGCATATTACGGCTATATATAGCCGATGCATCGCGGCCGATTAATGCATCGGCGCTAATTATACGGCATCGAT
CGGCGCTAATTAGCGCCGGCCGGCGCCGCGGCCGCGCGTAGCTACGATATATGCGCATATGCCGATATCGTACGATTA
TAGCGCCGATGCGCATCGCGATATATTATAATTAGCGCTAGCATTAGCCGGCTAATATCGCGTAGCATTAGCGCATGCCG
GCCGTAGCCGATATTAGCGCGCTAATATTATACGTAGCCGATATTAATGCCGTATAATATCGCGGCGCATTAATGCTAATT
AATGCTACGGCTAGCCGATGCCGCGGCCGGCGCGCATCGATCGTATATAATCGGCCGGCGCCGGCATGCATATGCGC
ATTAATTATATATAGCATATCGGCATGCTAATGCATGCATTAATCGATATATATGCCGTAGCATTACGCGGCGCCGGCATA
TGCTAGCATCGATATATTACGTAGCATTATAGCATGCGCGCTATAGCCGTACGGCCGCGCGGCATCGGCCGCGGCATTA
GCTAGCCGGCATGCGCTATACGATATCGTAGCGCGCTATAGCGCATGCCGATGCATATATGCGCGCATCGATATTAATC
GGCGCGCCGGCTACGTATAATATCGCGGCCGTATAATTAATTACGGCCGGCATCGATTACGATATATCGTAATTAATATC
GATATTATAATTAGCGCGCGCCGATCGATCGCGTATACGCGATTAGCCGCGTAGCCGATCGGCTAGCGCATATCGATTA
CGTACGATGCGCGCATGCCGCGGCATGCTAGCTAATGCCGGCCGATATGCTATAGCCGCGGCGCTAGCCGTACGATGC
GCCGCGATCGATATGCCGCGTAGCTATAATGCATCGGCTAATATTACGTAGCCGATTAGCTAATATATCGATTAATATCGA
TATTACGCGGCCGGCATCGGCCGCGATTAGCTACGGCGCCGGCTAGCCGTATATACGTAATATATGCGCCGATTACGTA
GCATGCGCTAGCATGCGCATGCTACGCGATTATAATTAGCATCGGCATGCCGCGATCGTAGCATTATATAATATATTACG
ATGCGCGCCGCGGCGCTAGCGCCGATTAGCTACGATGCGCTATAGCTATACGCGCGTATATAGCATGCTAGCATCGTAC
GCGTATATACGTAGCCGGCCGGCATATATTATATATACGTATAGCTAATTAGCTACGCGCGCGATGCGCATATGCTAATTA
GCTAATCGATGCCGATTACGTAGCTATATATAGCTAGCATCGATATGCTAATGCGCTAATATTATAATATATTACGCGTACG
ATCGATTAATCGTAATTAGCGCGCTACGATTAGCATATATATATGCCGCGATATATATCGATATATATCGTATATACGTAGC
TAATCGGCCGCGTACGTAATTACGGCCGCGCGTAATTATAATTACGGCATATATTACGGCATATGCCGGCTACGCGGCTA
ATATTAGCTATAATATATCGGCGCTATACGCGCGCGCGATTAATTATAGCATCGGCTAGCCGATTATAGCGCTATATACGG
CCGATCGTAGCATATGCCGCGATATTACGATTACGGCATATGCATCGATATGCGCGCTAATTATAATGCGCCGGCGCCG
CGATCGGCGCTACGATCGTAATGCGCATTACGATTAGCCGGCCGTAGCGCGCCGCGATCGATTACGATTATAGCCGATA
TTATAATGCGCATTACGATTACGCGGCTATAGCGCATATGCTAATATATATCGCGCGTAATGCTACGCGGCTAGCGCATC

GCGATATGCCGATGCTATATACGCGATCGATGCGCATGCTATAGCTAATTATATAATCGCGATCGTACGGCTACGCGGCG
CATATGCTAGCTACGCGCGATTATAGCTACGCGGCTACGGCATTAATTATAATGCTACGCGGCTATACGGCGCATCGCG
GCGCCGTAGCTACGCGTAATCGATGCATCGGCGCTAGCATTAATATCGGCATGCCGCGGCATTAATATATGCGCTACGG
CTAATTAATATTATACGTATACGGCCGTATAGCCGTAGCATATATGCGCCGTAGCGCATATTAGCCGTAATATGCGCGCG
CTATAATGCATGCCGATTAATTATAGCATCGTAGCTATATATACGGCCGCGGCTAATTAGCTAGCATTAATTAATTAATATA
TCGGCTAATGCTAGCATCGATCGGCCGTAGCCGTAGCCGATCGTACGTATAATGCGCTACGCGGCGCGCTAGCATATG
CATTACGTATATAGCGCGCATTACGCGGCATTATACGTAGCGCGCATCGTAGCTAATTATACGTAATATATGCATCGTATA
GCTATAGCCGATATCGTAGCCGCGTACGATTATAATCGCGATTAATATGCGCTATAGCTATAATGCTATATACGTAGCATC
GGCGCCGTATACGATGCCGTATATACGCGCGCGGCATATGCCGTATAGCTAATGCCGGCATGCGCATCGGCATATCGAT
TATAGCCGGCTAATATTATACGCGGCATCGATATTACGCGATATGCGCATATCGGCGCTAATGCTATAGCATGCCGCGCG
TATACGATATCGATATGCCGCGATATCGGCGCCGCGCGCGCGTAGCGCCGATATGCGCCGGCATTATATAATGCTAGCT
ACGTATATACGTACGCGTATATACGCGCGCGGCGCTATAGCGCTAGCATATATGCTAGCGCGCTAGCCGTAATGCATATT
ACGATATGCCGCGATTATAATCGATGCATTAATTACGCGGCGCTAATATATTATAATTAGCATTAGCATTAGCATCGGCAT
CGGCGCATATATGCGCCGCGCGATGCTACGGCTAGCATTAATGCCGCGCGCGTATATATAATTAATGCGCTACGTAGCC
GGCATGCATGCCGATGCATCGATATATTACGCGCGTACGATCGATTAATGCATGCTAGCCGCGATCGTACGATTATAGCA
TATGCCGATTAGCCGTAGCCGGCATCGGCCGATATCGTACGGCTATACGGCATCGTAATATCGTAGCCGGCCGATTACG
ATCGCGCGATTATACGGCCGGCCGATATGCTATAGCTACGATGCCGGCTACGGCCGATATGCCGTACGATCGCGCGGC
CGGCGCCGCGCGGCATTACGCGGCTACGTAATCGATATATGCGCCGGCTACGATGCATGCCGATTAATGCTAGCGCTA
ATGCGCTAGCGCTAATGCCGATGCTACGATGCATTAGCATGCTATATACGATCGGCTACGCGCGCGGCCGCGCGCGTA
GCCGATATGCATGCATATCGCGATTACGGCCGCGATTATACGTACGATCGTAATCGCGATGCATTAGCGCATGCTAGCG
CATCGGCATCGTAATGCCGATTAATTACGTAATGCTAGCGCGCCGGCCGCGGCGCGCCGCGTACGTATAGCGCATGCT
ACGTAGCTAATGCCGTATACGTAGCATTACGATCGATTAATGCGCTAATCGCGATTACGTAATATGCCGTATAATATCGCG
TATACGCGGCGCATCGCGCGCGATTATAATGCTAATATCGCGTAGCGCGCGCTATAGCATATGCATTATAGCATATGCTA
TATATATAATATATTACGCGATTATAGCGCCGTATATAGCATATTAATCGATTAGCGCATGCATTATAATCGTAGCCGCGAT
TAGCCGATCGCGGCGCTAGCTACGTACGTAATATATGCGCCGTATAATGCCGTAATTAGCGCTAATTAATGCTACGGCCG
ATTACGCGTATACGCGATTAGCATTAATTATAATATTAGCGCCGATGCGCATCGCGTACGTATAATGCGCATATGCATATA
TCGCGTACGTAGCTAATGCGCATGCATGCCGTATATAGCATGCATATGCTATAATGCATTACGTAGCATTACGATATGCG
CTAATCGGCTACGGCCGTAGCGCATATCGTATACGCGGCTAGCGCATGCATCGCGGCTATACGGCCGATATCGCGCGG
CATATATATATATATCGATTAGCCGATATCGCGGCTAGCATCGGCTATACGGCATTATACGCGGCCGTAATGCCGCGGCG
CGCATGCGCATGCTAATATCGCGATGCCGGCCGCGTACGCGTACGATATGCGCCGCGCGCGTAATGCATTAGCGCATG
CGCTAATTACGTAGCTAGCCGGCATATATGCGCATATGCCGCGGCATCGATTAATATGCTATATATAGCATGCCGCGTAC
GGCTAGCATCGATATCGTATATATAGCATCGGCTATACGGCGCTAATGCATATGCTACGATTACGATCGATATGCCGATG
CGCTATAGCATATATATGCCGTACGTAATGCATGCGCTAATGCATGCCGTATACGGCATATTAATGCGCTAATCGGCCGG
CTACGGCGCATTATAGCATATCGGCCGATGCTATACGATTATATAATATGCCGGCCGTACGTAGCGCTACGCGTATAGCA
TCGTAATCGCGGCGCCGATTAGCATGCGCGCTAGCCGCGTATATACGCGATATCGTAGCGCCGATCGCGCGATGCGCG
CGCGCCGGCATTACGATTAATCGGCCGGCATCGTACGTAATCGGCCGTAGCCGTAATGCCGTAGCCGATATATCGCGAT
GCGCTAATTACGCGGCTAATTATACGCGATATCGATTACGCGCGATCGTACGGCGCCGGCCGTAATATGCCGTATATAG
CATGCGCGCCGGCATATGCGCTATAATGCCGCGATTAGCCGCGATGCATGCCGATGCCGATCGTATAATTACGATCGAT
CGTACGGCATATATATGCTAATGCCGTACGGCGCATGCGCGCATCGGCATATGCCGCGTACGCGTAATTACGCGATGCC
GGCATCGATGCATGCGCCGCGTATACGGCATATCGATGCCGTATATATACGCGATCGTAATGCGCTAATGCCGCGCGGC
ATGCGCATTAGCGCATATGCTATAATCGGCATATGCCGCGCGGCCGGCCGGCATATTAATATCGTACGCGCGCGCGGC
ATGCGCATGCTATAGCCGTAATTAGCGCCGATGCATTAATCGTACGATATGCGCCGTAGCTATAATGCATGCATATTACG
CGTAATATGCATGCCGATCGATTACGGCGCGCTACGTAGCCGCGGCCGTACGATTAATTAATGCCGCGGCGCCGGCAT
ATCGATTATATAATTAATGCATCGTAGCATGCCGTATACGATCGTATATAGCATCGTACGTACGGCGCCGGCCGTAATGC
TAGCATGCATGCCGTACGCGCGGCATGCTATACGCGCGGCGCATCGCGCGATCGTAGCATTAGCTATACGATGCATGC
CGCGTATAATTACGGCATATGCGCTACGGCTACGTAATATTATACGGCTATAGCGCCGCGCGTAGCGCGCATCGGCCGC
GCGTACGGCCGCGCGCGGCCGATTATACGATTATAATTACGATGCTACGTATAATATTACGTATAGCCGCGCGGCATATC
GTAGCATATATTAATCGGCATGCCGGCTAATTATAATCGTATAATGCCGTACGCGCGATATCGATCGATCGGCGCTAATC
GTAGCGCATTACGATGCGCATCGATCGATTATATATACGTAATATGCGCGCGCGCCGCGGCATGCCGGCATGCTACGCG
ATTAATATTAATCGTAATCGCGCGGCATCGGCTACGCGTATAATCGATGCGCATTAGCATCGATATATTAGCGCCGGCTA
CGCGTAGCATTAGCGCCGGCGCCGGCATCGCGTAGCGCCGCGGCTAGCATCGCGGCGCCGCGGCTAATTATACGGCG
CGCTATACGCGTAGCCGTAATCGCGCGTATAGCTAATATCGCGGCTACGATGCTAATCGTATAGCGCCGGCTAATGCAT
CGGCATTAGCCGCGGCGCCGTAGCCGATGCGCCGCGATCGATGCTAGCCGATCGCGCGGCTAGCGCATTAGCGCCGT
ACGCGGCTAGCTAGCTAATGCGCATATTAGCCGTACGCGTACGGCATGCCGGCTACGCGCGTATATAATATTACGATCG
CGCGCGCGTAATTATATAGCCGCGATCGTAATGCGCTACGCGGCGCCGATGCCGCGCGCGATCGGCATATGCTAGCTA
CGATTAGCGCGCTACGATTAATCGGCCGCGGCGCGCCGGCATCGGCATTACGCGCGGCGCTAATCGCGCGCGGCTAC
GTACGGCGCATATTAGCTACGTAATGCGCCGGCTAGCGCGCGCCGGCTAGCTAGCCGGCATTACGCGCGATATCGCGA
TTACGCGGCTACGCGGCATATATCGTATATATACGATTAATATGCCGCGCGGCGCATCGGCGCTATACGCGCGTACGGC
TAGCGCATTACGATGCTATATAATTAATCGTATAGCGCATTAATTATACGGCTAGCGCTAATCGGCGCTAATGCCGATCGT
ACGCGCGATGCATATTAGCTAATCGATGCGCATCGCGTATATAGCCGCGATCGATGCCGGCATGCGCGCATGCCGTAG
CCGTACGCGTAATGCATTAGCCGGCTAGCGCTACGGCCGCGTAATTATATAGCTACGGCTAGCGCCGTAGCGCATGCAT
GCTAGCGCCGTACGGCGCTAATCGGCGCCGATGCTAGCGCGCCGCGGCGCATATGCGCCGGCCGTATATAATTAATTA
ATATGCGCGCCGGCGCGCCGTATACGGCTAGCGCGCTATAGCATGCTAATGCCGTACGTACGGCGCGCATATTACGGC
CGCGCGTATATAATCGCGTAGCATATATGCATATCGCGCGATATATTAGCTAATCGGCATGCCGCGATTACGTATACGAT
GCTACGGCGCTACGCGATGCATGCCGATGCGCGCCGCGTAATCGCGCGCGATTAGCGCTAGCCGATTAATCGTAGCTA
TAATCGTAGCTACGTATATACGGCCGGCGCCGTAGCTACGCGGCATCGATATCGATATATATATATTACGCGCGATCGTA
ATCGATGCGCCGTAATCGTAGCCGATATATTAGCTATATAATGCCGATGCCGCGATCGCGCGGCATGCGCTACGATATTA
ATGCTAATATTAATATATCGGCTAGCGCATATGCCGTATATAATATATATGCCGCGTATAATGCTAGCTAATCGCGGCATTA

GCGCCGATTATACGGCATATATATATCGATGCATGCCGGCTAGCGCTAGCATCGATGCTAGCATGCCGATTACGCGATC
GGCTAATCGTAGCTACGCGTAATTAGCCGGCGCCGATCGTATAATCGGCGCATGCATCGGCGCGCGCCGATATGCATAT
TAATGCGCCGCGGCATCGTAGCCGATGCATTAGCTATATAATCGCGCGTATAGCCGATCGATGCTAGCTACGGCGCGCC
GGCCGGCTATAGCCGGCGCTATATAGCATATTAGCCGATATGCATGCTATAATGCATGCGCCGGCCGCGGCCGGCTAG
CGCGCGCCGGCATATATATTAATTATATAGCCGATGCTAATATGCTAGCTACGATTAATATATCGGCATCGGCGCATCGG
CCGTACGTAGCATGCCGTATACGGCGCGCATGCATTATAATTACGGCATCGTACGCGATATGCCGATCGTACGTATATAC
GATGCGCCGGCGCATTACGTAGCTACGTAATTAGCATTAATATATTACGTACGATGCTATAGCTAGCGCGCCGGCCGCG
GCCGGCTAGCTAGCGCTAATTATAATGCGCATCGGCATGCCGTACGTAGCTAATTAATGCCGTAGCTATATAATATGCCG
CGGCATATCGCGATATGCCGGCCGTACGATATATCGTATACGGCTAATCGCGCGATGCATCGATATATCGTATATAATCG
TAATGCTACGCGATTAGCATCGCGCGATATATTAATTAATATGCGCATATGCGCTAATTAGCGCATATTAGCGCATCGTAA
TTATAGCCGTACGGCGCATCGGCGCGCGCTACGGCGCTAGCATTATAATGCATCGCGGCTACGGCCGATGCGCTACGA
TTATATAATCGGCTACGCGCGTACGCGCGGCATATTACGATTACGTAGCATATGCTAATGCTAGCCGGCGCCGTACGCG
GCTACGCGGCGCGCTACGATTATAGCCGATTAATGCCGTATATACGCGATTACGTAGCTAATATGCGCATGCATCGTAGC
TAGCCGATATCGCGGCCGTACGGCTAGCTATATAATCGATTAGCTAGCCGTAGCATTACGTAGCCGGCTAGCATTAGCTA
CGTATAATATTAGCTAATTATATAATCGTACGTATAGCCGATCGCGCGATCGCGATTACGATTATACGGCATGCTACGGCA
TTAATCGATGCCGCGTATAGCCGGCGCCGTAGCATGCCGATTATAGCTATACGTATAGCGCCGATGCATATTACGGCCG
ATTAATATGCATCGATGCGCATCGGCGCATTAGCCGTAGCATCGATCGCGGCGCCGATGCATGCCGCGTACGGCATTAC
GGCCGATGCGCGCATCGTATACGTATACGATATGCATCGGCCGATCGATATCGTATAATCGGCATATCGCGCGATATGC
GCATATCGATATGCTACGCGATATGCTACGGCCGGCTAATCGCGGCGCCGCGTACGCGTAATATGCATCGGCCGATTAC
GCGGCCGATATATTACGATTATATAATTACGATCGATATGCGCGCATGCATGCGCGCTACGTAATATATGCGCATTAGCC
GTAATCGATGCTAGCGCGCTACGGCGCCGTACGTACGTACGTACGTATATACGTACGTAGCATGCTAGCCGATATGCGC
GCATCGATCGATTACGGCTAATTAGCGCATTAGCATGCATTAATATATGCTAGCGCTATAGCATGCTAATCGATGCATGCT
ATAATGCGCATATGCGCGCGCATATGCTAGCATTACGGCCGATATATGCCGTAGCGCCGATATGCATATCGCGGCATAT
CGCGATGCATGCCGGCCGTAATTATACGATATCGCGGCGCATATGCGCGCCGATGCCGGCATATTAATGCTAATATGCG
CGCGCGCCGCGTACGATGCGCCGTATATAATGCCGTACGGCCGTATAGCTATACGCGATTATACGTAATCGTATAGCCG
CGGCATATGCGCATATATTATATAATATCGTATATACGTATAGCCGCGCGTAGCCGGCCGGCATTACGGCATATATTAGCAT
GCGCATGCATTAGCCGTAATCGGCTATAGCCGCGATATTATAATGCCGCGGCGCGCGCGCATATTAATTACGATATTATA
ATATCGTATACGATTAATATATCGTAGCGCCGTATAGCATGCATGCGCCGGCATATATCGATGCATTACGTATAGCTAGCC
GCGATGCATGCATATATGCCGATCGTAGCATATCGATATGCATCGGCATCGTAATGCGCTATATAGCGCTATAGCATTAG
CATGCTATAATATGCGCGCGCTAATGCATGCGCCGATATTACGCGGCATGCCGATATGCGCCGTAATATGCATCGATCG
TATAGCTAATTAATTACGGCGCGCTAATATTACGGCCGCGTATAATTATACGCGCGGCATATATCGATGCCGCGCGGCTA
CGATATGCATATGCATTACGCGATTAGCCGTATATATAGCGCTATAATATCGCGTATACGGCTACGGCCGCGCGCGGCC
GGCGCATGCATGCCGTACGCGGCTAATATATCGGCGCCGCGCGATTATAATCGGCGCGCATCGGCCGATCGATTAGCG
CATTACGCGCGATCGTATACGGCTATAATCGCGGCTAGCTATATACGATTACGATGCCGGCGCCGATGCCGATCGCGAT
ATATTACGATGCGCGCGCATTATAATATCGGCCGATATTATATAATATTAGCGCCGGCTAATCGGCCGATGCGCTAGCCG
ATCGATTATAATTAGCGCGCGCCGCGGCCGATTATACGTAATTAGCTAATCGTATAATATTAATCGCGATTAATTAATATGC
TAGCCGGCCGGCATGCTACGATGCCGGCCGCGATGCGCTAGCATCGGCGCGCTAGCTAATATGCATGCATTAATCGGC
GCATCGATGCATTAGCCGGCATTAGCCGATCGGCATTAGCATCGCGATTAGCCGCGCGATATGCATCGTAATTATAATAT
CGCGGCGCCGGCGCCGATGCGCGCCGCGGCGCATATGCGCCGGCGCATATATCGTACGTACGTACGGCCGGCTAGC
GCATATCGATATGCATATATTACGCGTAATCGGCATGCGCATTAATTACGCGCGATGCCGGCTATATACGTAATATTAGCT
ATATACGGCCGGCGCATATATCGTACGATCGGCCGGCTAGCTAATATGCGCGCGCCGTAGCCGTACGATGCTAATCGAT
CGTAGCTATAATATATATATGCTAGCGCCGATTATAGCTATACGTAGCATTAATATTATATACGTAGCTATACGATGCTAGC
CGCGATATATTAATCGTAATCGGCGCTAATATCGGCGCTACGTATAATGCGCGCATTACGTAATCGTAGCATCGATCGTA
GCATTACGCGATCGTAGCCGATATCGGCGCGCGCATCGATATTATATACGTATAGCTACGATGCATATTATACGATGCGC
ATCGGCCGTACGATCGATATGCGCATGCTAATTACGTAGCTAATGCGCCGCGATTATATACGGCCGATATGCGCCGATG
CGCCGGCTACGATATATCGGCATGCTAGCCGCGTAATGCTAGCATTATAGCGCATATATATTACGGCATGCTACGGCCG
GCGCCGATCGATTAATCGTAGCCGTATACGCGGCTAGCCGGCATTAATCGCGGCATATCGCGGCCGTAATGCTAGCTAA
TTACGATATCGCGATATGCGCCGTAGCGCGCCGCGATATTAGCTAATATATGCTAATGCATCGCGATCGTACGTACGATA
TGCTATAATATTATACGATTACGCGGCGCCGTAGCATGCCGCGCGCGTAATGCCGTAGCGCATATGCTACGCGTAGCTA
ATCGCGATGCATGCATGCGCATGCCGGCCGGCATTACGTACGATATGCCGGCTAATTAGCTAGCGCTAGCGCATATATG
CATGCGCTAGCCGGCTAGCTATAATGCGCCGGCATGCCGGCTAATATATTATAGCTATAATATGCGCATCGTAGCGCCG
CGCGTATAGCCGTAGCCGGCGCGCGCTACGCGTAATGCGCCGATGCGCCGCGATGCGCCGTATACGCGTAATTACGAT
TACGGCGCTAGCCGGCCGGCTACGCGATGCCGATATATGCATTATATAGCATTATACGGCTACGGCGCTAATCGCGGCT
AGCCGGCCGATCGTAATCGGCTAGCGCTAATTACGCGCGGCCGCGATATTACGCGGCGCGCCGTATACGATTATAGCG
CTAATGCGCATCGGCATATTATAGCCGATCGTAATATATGCGCCGGCTAATATCGCGATCGCGGCTAGCGCTACGGCCG
ATATCGTAATATTAGCGCGCTAGCCGATTAGCATTACGATATGCCGATGCATTAGCGCGCATATTAGCTACGCGATCGGC
CGATCGCGGCTATACGTACGATATCGTATATATACGTATATAGCGCATATTAATTACGGCGCCGGCATCGGCTATAATTAC
GGCCGCGCGATATTATAGCTACGATATGCCGATCGCGCGTATAGCTAGCCGCGCGCGCGATGCTACGGCGCGCATCGT
ATATAATATATTAATTATATACGGCATGCATGCGCCGCGATGCGCGCATTATAATGCATGCGCATATATTATATACGCGAT
GCCGATTAATCGTACGGCATTATACGGCATATGCGCATCGCGATATATATATATATATCGATATATATGCCGGCTACGTAC
GATTACGCGCGGCCGCGATTACGATCGATTAGCATTAATCGGCATCGATTAGCCGATGCCGATGCATATATCGCGCGCG
TACGCGATGCCGTAATCGCGATGCTAATGCGCTAGCCGGCGCCGATCGTAGCGCATGCATATATATGCTAATGCTACGG
CGCATATGCCGTAGCGCATTATATAGCTATATAATATCGATTAGCCGTAGCTAATCGATCGCGTAGCTACGCGTACGTAAT
CGATATATGCATGCTATAATCGGCCGTATATATACGATATTACGTACGTAATGCGCCGTAGCATGCCGATTACGTACGTAA
TGCATTATAGCTAGCGCATGCATTACGTACGTAGCATATTATACGTAATTATAGCATATATGCGCTATAGCGCATCGGCTA
TAGCTAGCATTATATACGCGATATTATAGCCGATCGTATATATATACGCGATCGGCATCGTAATATATATATTACGCGATTA
CGGCCGCGTAATCGGCCGCGGCATGCCGGCGCATGCCGGCTACGATGCCGTATATAATCGGCTAATGCGCTAATGCAT
GCATTAATATCGCGATCGATATATTAGCGCTAATCGATTAATCGGCGCGCATGCTAATCGTATACGCGTACGTATAATATG

CATTATATAATATCGGCTATACGATGCCGTACGTAATCGTATAATGCCGTACGTAGCATATCGCGTAATGCGCTAGCGCTA
ATTAGCGCTATACGGCATTAATATGCGCTATACGTACGATCGCGGCGCTATACGATATATTACGATCGTAGCATTAGCGC
ATCGTAGCCGATTATAGCCGCGGCCGGCCGCGATGCTATAATATTATAATTAATGCCGGCCGGCTATAATCGATATATTA
ATGCGCGCGCGCGCTACGTAGCCGCGATCGATATTATACGCGTAATTACGTACGTAGCATCGGCCGCGATGCGCTAGC
GCGCGCCGCGGCGCCGTAGCTACGTACGGCATGCATTACGCGTAGCCGGCTAATTAGCATATTACGTATATATATACGT
ATAATGCTAGCTAATTAGCGCGCATGCATATGCTAATGCTACGGCGCTAGCCGTACGGCCGATCGCGATATCGATGCGC
ATTAATTAGCATATATGCATGCGCTACGATGCCGGCGCTATAATGCCGATATGCTAGCATCGTAGCTACGATGCATTACG
ATGCCGATTAGCGCTACGATCGATGCCGCGTATAGCTAATGCATTACGCGATTAATTAATATATGCTAATGCTAATATGCT
AGCCGTAATCGATGCCGCGTATAATATCGGCCGGCCGGCTAATGCTACGGCGCTATATAATTAATTAGCGCGCGCCGCG
TATATAGCATATATGCGCGCGCATCGCGCGTAATCGATATCGGCTACGGCGCCGATTAATCGATCGTACGGCATGCTAC
GTAATTAGCTAATTACGCGTAATATATCGCGCGGCGCGCGCATCGCGCGTACGCGCGGCGCATCGATATATCGTAGCTA
CGGCTAGCTAGCGCTATATATAGCGCGCCGCGATTAGCATTATACGTAGCCGTAATATGCATTAATATCGGCGCGCGCC
GTAATGCGCTATACGTAATATTAATCGTACGTATAGCTATAATATTACGGCATATTAGCCGATGCCGCGTACGCGGCTATA
GCGCATATATCGCGCGCGGCCGATTAATTATAATGCATGCCGGCGCATGCTACGATATGCGCCGCGGCTATAATTACGC
GTAATATGCTATACGGCATATTATAATGCATATGCTAATATTACGTACGGCATCGATATTAGCCGATCGATATATGCTACGC
GGCGCTATAATATGCGCATATTAGCATTAGCCGCGGCATTACGGCTATACGGCATTAATGCATCGATCGATGCGCCGGC
GCATCGGCATCGGCATCGATTAGCCGGCCGATGCATTATAGCCGGCTAGCTATAGCTAGCTAATGCGCTACGCGCGTAT
ATAATCGTACGCGATTAGCTACGTACGGCCGTATATACGATCGTATAGCTAGCATTAGCATATTATAGCATTAGCGCTAAT
CGTAATCGGCCGGCTAATATCGGCATTAATCGCGGCTATACGATCGCGGCATTATACGGCGCGCCGCGTATACGATATG
CTAGCATCGCGGCTAGCATATTATAATTATAATTAATTACGATATCGATCGATCGTAATATGCCGATGCATTACGGCGCGC
ATGCGCCGGCATGCATATGCCGGCCGTATACGGCATTAGCCGCGATATTAGCCGATTATAGCTAGCCGTAATTATATAGC
ATCGGCGCTAGCTACGATGCCGTACGATATGCCGGCCGATATATATATGCCGCGTAGCTAATATATGCGCGCTAGCATG
CGCCGCGGCCGTATAGCGCGCTAATTACGATATTAGCCGATCGTATAATCGGCTAATATGCTAGCTAATTACGATATGCC
GATCGGCCGCGTACGCGGCTATATACGCGGCATTAATATATTACGATGCTAGCTAGCGCATCGATTATATACGGCCGCG
GCATCGTACGATGCGCGCATATGCGCATTATAGCTAGCATCGTAATTATAATGCGCATCGATATTACGCGTAATGCTACG
CGGCTAATGCGCCGTAGCATCGTAATATTATACGTAATTAGCGCTATAGCGCTACGGCCGATCGGCTACGTACGGCCGC
GTACGGCATCGATGCTAGCATTAGCGCCGATCGATCGGCCGCGGCCGGCATTATAGCCGATGCGCCGGCGCATGCTAA
TTAGCCGATCGATATTAATCGATCGATTATACGTAATGCATCGCGGCGCCGGCATGCCGGCTAGCATTATACGTAGCCGT
AGCTACGATCGGCGCCGATGCTATAGCGCATTAATCGGCATTATATAGCCGTACGCGGCCGGCGCATCGATTATATAGC
TAATGCGCCGCGTAGCATCGCGGCTAATCGATATCGCGCGGCGCTAGCGCGCGCCGGCTATACGATCGGCCGATCGG
CATGCATTAATCGCGTATACGGCTAGCATTAATATTAATCGCGATGCCGATCGTATATACGGCATCGCGTACGTACGGCA
TGCATATATCGTATACGATATGCCGCGATCGCGTACGGCGCCGTATATATACGTATACGGCTAGCTAATCGTAATTACGC
GGCATATCGGCGCTATACGGCGCATGCGCGCATCGATCGATCGCGTACGGCATATATATCGCGTAATGCCGCGTATAAT
CGTAATCGGCGCGCTACGTACGCGATGCATATCGTACGATCGATTACGATGCTACGGCTAATGCTATACGATATGCCGAT
ATTAATTAATCGTACGGCCGGCCGATATATCGGCATATTAGCTAGCCGCGCGGCCGTATATACGTATAATCGGCGCGCAT
ATATTAATGCATCGATGCTACGCGTAATCGCGGCATATATATGCATTACGCGCGATTACGCGCGATTAGCATATATATTAG
CTAATATTATAGCATCGCGCGATATGCTACGTACGCGATCGCGTATAGCCGTAATATATATGCGCGCCGCGTACGATCGG
CATCGCGTACGCGGCGCGCGCCGATGCGCCGTACGCGATCGGCCGCGATGCGCTAGCCGCGATATATATTATATACGC
GCGTATACGGCCGTATAGCGCCGATATGCGCCGCGCGATATTATACGCGTACGTAGCCGCGTAATTATACGCGATGCTA
TAATTACGATCGATGCATCGTAATGCGCGCGCCGGCTAGCATGCGCCGATATGCTAATGCTATACGGCTACGATATGCG
CGCATGCTATAGCATCGTAGCATGCGCTAATCGTATAATCGATCGGCGCCGGCGCGCATCGGCGCGCCGCGGCATGCC
GGCTACGGCTATACGTAATCGGCCGTACGCGATATATATCGATCGATGCCGATATTAGCTATATACGTATATATAGCCGTA
TACGATATGCGCATTACGGCCGTAATGCCGATATATATCGGCGCTAGCGCATGCCGCGCGTATAGCGCGCGCTATAATC
GATTAGCCGTAGCATATCGCGATATCGATTACGATATCGATTAGCATATATGCATGCCGTACGCGCGGCGCATTAGCTAG
CATTATAATCGGCCGTACGCGCGCGGCGCGCCGTATAGCGCCGGCCGGCGCGCATGCCGGCTAATTAGCTAGCCGGC
TAATCGATTAATTAATATCGCGATATTAATGCCGTATATATAATATCGGCCGCGGCCGATTAGCCGCGATTATATAATGCG
CGCCGTACGTAATGCGCGCATCGATTATAATATTATACGGCATATATGCATGCATATTAGCTAGCCGGCCGCGATATATG
CTAGCTACGCGGCGCTACGCGATATCGTACGATCGTAGCATATCGCGGCCGTAGCATTATAGCTAATGCGCCGCGGCTA
CGGCCGGCGCGCTAATCGGCATGCGCTATATACGGCCGTACGATATTATACGATGCATTAGCTACGGCGCGCATATATG
CATCGCGGCTACGATGCATATGCCGGCCGATTAATTACGTAATGCATGCATCGATTATAGCGCATCGTACGGCGCCGCG
ATCGGCATTAGCATGCGCCGCGCGATTAATATTATACGCGGCTAGCGCATATATGCCGGCTAGCATATGCTAATGCCGC
GCGTATATAGCCGTAATCGGCCGATATCGCGATGCGCATCGTAGCCGCGTAATGCTAGCTAATCGCGTATATAATTATAG
CCGGCGCGCCGGCGCTAGCGCTAATCGATTACGATTATAATCGGCTATAATATTAGCTATACGATCGATGCCGCGTACG
ATCGCGTATAATGCATTAATTATAATTATATAATATGCGCCGATATTAGCTAATGCCGCGTAGCTAGCATATGCATTAGCTA
TACGTATAGCGCCGGCCGTAATTATACGGCCGCGTACGCGATATGCTATAATCGATATATGCTACGATGCTAATTACGAT
ATCGATTAATCGATGCTAGCGCATCGCGTACGCGCGATGCATATATGCCGCGATTATATAATGCCGATCGCGATATATGC
TACGTAATCGGCATGCGCATATGCCGTACGATCGGCCGTATACGTAGCATGCGCGCTATACGATATATTAGCCGGCCGA
TATCGTAATCGATTAGCATCGGCATCGGCTACGGCTAATTAATCGGCCGCGTATACGGCATATCGTAGCTACGATTAGCC
GATATCGATATATGCATTATAATGCCGGCTATAATGCTATACGATTAGCCGTATACGCGATCGATATCGGCGCCGCGATAT
GCCGTATACGGCTACGTATATAATGCGCTAATATGCATATATGCCGATGCGCTAGCATTAATCGCGTATACGTAATTAGCG
CTATATATAGCTAATGCATTACGCGTAATATCGGCATCGTAATCGCGTAGCATATTACGGCCGTAATTAGCATCGGCGCAT
GCTAGCATGCGCCGGCATATTAATGCGCCGCGATCGCGTAGCCGTAATTAATGCATATATATTAATATTATAATATATTAC
GGCATTAATCGTAGCCGATGCGCTAATCGTAATCGGCCGGCATATTATAGCCGGCGCCGTAATATGCGCTAGCCGGCCG
TAGCCGTACGCGATGCTACGTACGCGTACGGCTATAATATCGGCATTATACGGCGCTAGCCGCGTAGCATTAGCCGCGG
CCGATGCATCGTAGCGCGCATATCGATATATTATACGTACGTAGCCGATCGGCATCGCGATATTATACGGCTAATGCGCT
ATATATAATCGATATGCGCCGCGCGATATATCGCGGCTACGATTAATATGCCGCGCGATATGCGCCGATCGTACGCGAT
ATATTACGGCATCGATTAGCTAGCATTACGATCGCGATATCGGCCGGCGCATATATTATATAATGCCGATATTATATACGA
TGCTATAATTACGTACGGCATCGTATAATGCCGGCATGCATGCCGGCTAATGCCGCGGCGCTATATAGCATTAGCGCATT

AGCTAGCTAATGCCGATTACGCGGCATCGATCGATTATACGATGCATTACGGCTAGCATGCCGATTACGGCCGATGCCG
CGCGGCTAATATATATCGTAGCGCCGGCGCTATAGCATATCGATGCCGGCTATATAGCTAATTATAATTAATCGCGTAATC
GTATATAGCTATAATATATTAATGCCGTACGGCTATAGCTAATGCCGGCATATATTACGGCGCTACGTAGCCGATCGTAAT
ATCGGCATATATTAATCGATATGCCGTATAATTAGCGCCGCGTAGCTAGCCGCGCGGCCGCGCGGCATATATATGCATG
CTACGCGCGCGGCATCGGCCGATCGGCTAATTACGATATATCGGCCGCGATTAGCCGATCGATATTATAGCCGATCGAT
TACGATTAGCCGTAATTAGCGCGCGCGCATTAGCTAATGCTACGCGCGGCGCTATAATGCGCGCCGGCTATAGCGCCG
ATGCCGCGTACGCGCGCGATTATAATTATAGCGCCGATTAATATATCGTAGCCGCGATATGCATGCTATATAGCTAATATT
AATTACGGCCGGCATCGATCGGCCGTATAGCGCATATGCTACGTATACGATATGCGCCGCGATTACGCGCGGCGCTATA
GCTACGTAGCATCGCGTAGCTAGCGCTAATTATACGGCATATCGTATATAATCGTATAATGCTAGCGCCGGCGCGCATGC
CGGCATTATAGCGCGCTATATACGGCGCCGTATACGATATCGTAGCCGTATAATCGGCCGGCTAGCGCTAGCCGCGCG
TACGATGC

CONCLUSION:
Your health is paramount to us, and we remain committed to supporting you throughout this process. Please do not hesitate to contact our team if you require additional information or wish to schedule a consultation. Thank you for your participation in this groundbreaking research endeavor. Your contribution has significantly contributed to the advancement of genetic medicine.

Sincerely,
The DNAI Team