

Evidencia 1: Análisis Inicial, Análisis de biología computacional (Gpo 201)

Guadalupe Paulina López Cuevas A01701095

2023-05-01

PARTE 1

1. ¿Cuál es la situación actual de COVID-19 a nivel mundial, en México?

SITUACIÓN GLOBAL DEL COVID-19

[1] En 2019 llegó la famosa pandemia que nos provocó estar por un largo tiempo en cuarentena encerrados en nuestras casas sin poder convivir con gente de manera presencial, hoy día eso ya solo es como un mal recuerdo que contamos. A pesar de que ya pasaron más de dos años de esto y hoy podemos estar en cualquier parte que queramos respirando sin la necesidad de un cubrebocas o una distancia mínima de 1.5 metros este virus no ha desaparecido porque vino para quedarse.

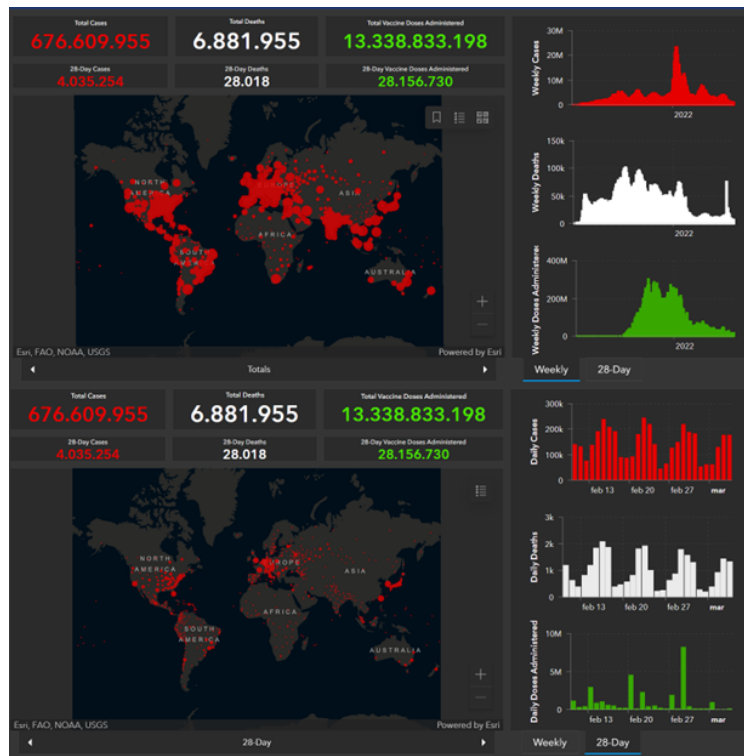


Figure 1: Global COVID-19

A pesar de que ya no tenemos las restricciones que antes teníamos y la mayoría de nosotros contamos con 2 vacunas y 1 refuerzo, el COVID-19 convive con nosotros. En el mapa superior de la Figure 1, podemos ver la

diferencia de los casos detectados, muertos y vacunas aplicadas totales alrededor del mundo. En el mapa inferior de la Figure 1 vemos los mismos datos registrados pero en los últimos 28 días donde fueron detectados alrededor de 4 millones de casos de contagio y 28 mil muertes a pesar de que en estos años de la pandemia se aplicaron más de 13 mil millones de vacunas y se siguen aplicando vacunas en algunos lugares del mundo. Esto nos muestra que a pesar de que se desarrollaron varias vacunas para contrarrestar el COVID-19 o que este no nos ataca tan agresivamente como lo hacía al principio de la pandemia, el virus evoluciona y muta tan rápido que en algunos casos sigue siendo mortal para la gente.

SITUACION EN MEXICO DEL COVID-19

[1.1] En México la situación es bastante similar, en el mapa superior de la Figure 2 vemos que los datos acumulados lograron llegar a los 7 millones de casos detectados, más de 300 mil muertes registradas y alrededor de 225 millones de vacunas aplicadas. En el mapa inferior de la Figure 2, podemos observar cómo seguimos contando con contagios de 82,596 en los últimos 28 días, así como 608 muertes. A diferencia de las cifras globales podemos identificar como en los últimos meses no se ha aplicado ni una sola vacuna en México. Actualmente solo el 64.60% de la población mexicana está completamente vacunada, lo que es un foco de alerta debido a que aunque ya convivimos con el virus y ya no es tan letal como lo era al principio de la pandemia, sigue existiendo este sector que no tiene todas las vacunas provocando un riesgo de propagación del virus si es que ellos se contagian. Es por eso que es muy importante seguir teniendo las medidas de higiene y prevención que se tuvieron durante la pandemia para minimizar los contagios lo más posible tomando en cuenta que el virus todo el tiempo está mutando y se esta adaptando al ambiente donde se mueve.

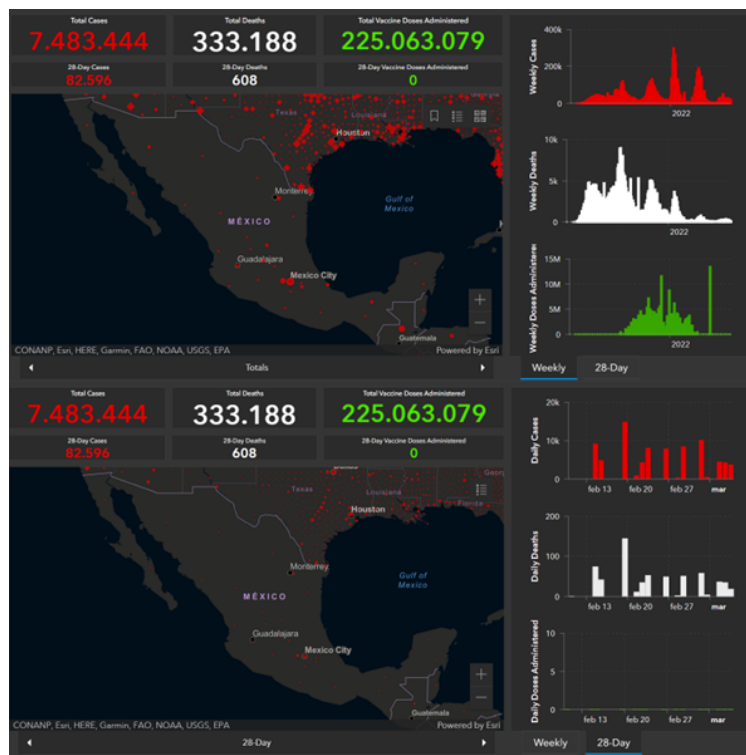


Figure 2: México COVID-19

2. ¿Cuál fue la primera variante del virus que se propagó a todo el mundo?

[2] La primera variante que se propagó fuera de China fue la variante original, llamada SARS-CoV-2, esta fue detectada por primera vez el 31 de diciembre del 2019 por el médico Li Wenliang en Wuhan, China. Esto

dio inicio a la pandemia del COVID-19, a la cuarentena global y causando alrededor de casi 7 millones de muertes alrededor del mundo por este virus y sus diferentes variantes en las distintas regiones.

3. ¿Cuáles son las otras variantes del virus que existen en otras regiones del mundo?

[3] A lo largo de estos años que la pandemia llego, se han identificado múltiples variantes del COVID-19. Sin embargo, no todas son de interés, es decir, solo algunas de estas variantes representaron una amenaza de salud para las personas y estas son las que han provocado los contagios masivos y las muertes a lo largo del mundo, las más nombradas son:

[4] VARIANTES DE INTERES

- **SARS-CoV-2 (diciembre de 2019, Wuhan, China)** Primer variante identificada en la ciudad de Wuhan en China, provocando el inicio de la pandemia. Esta variante la conocemos como la variante original, SARS-CoV-2.
- **Alpha B.1.1.7 (septiembre de 2020, Reino Unido)** Esta variante, después del SARS-CoV-2, fue de las primeras en llegar a México a través de personas que venían desde Italia esparciendo el virus a todo el mundo.
- **Delta B.1.617.2 (octubre de 2020, India)** Esta variante era mucho más transmisible que la original.
- **Ómicron B.1.1.529 (noviembre de 2021, Sudáfrica)** Junto con las vacunas y los refuerzos esta variante fue la que logro que pudiéramos empezar a convivir con el virus, debido a que esta hacia que se presentaran síntomas desde el 3er día y los síntomas fueron menos agresivos que las anteriores.
- **[5] Arcturus XBB.1.5 (enero 2023, India)** Subvariante del Ómicron. Es la variante más actual encontrada en el 2023 y según la OMS, es más contagiosa que las anteriores y más resistente a la inmunidad.

4. ¿Cómo buscarías información de la variante del virus en tu país?

[6] Gracias a los avances tecnológicos con los que contamos hoy en día, la manera más facil para buscar información de las variantes de este virus en México seria a través del internet. Algunos de los sitios o lugares confiables para poder encontrar información verídica serian:

SITIOS WEB

- Secretaria de Salud de México
- Instituto Nacional de referencia Epidemiológica (InDRE)
- Instituto Nacional de Enfermedades Respiratorias (INER)

MEDIOS DE COMUNICACIÓN

- El Universal
- La Jornada
- Reforma
- Milenio
- Excélsior

ORGANIZACIONES MUNDIALES

- Organización Mundial de la Salud (OMS)
- Centro para el Control y la Prevención de Enfermedades (CDC)
- Fundación para el Control y la Prevención de Enfermedades (CEPI)

Es importante consultar cualquier información en al menos dos fuentes de información diferente para entender el panorama completo de lo que estas buscando, así como asegurarnos de estar recopilando la información de sitios confiables o certificados para que no nos veamos afectados por opiniones de quien lo escribe y podamos encontrar información objetiva de nuestro interés.

5. Imagina que te encuentras en una situación similar a la de Li Wenliang, médico chino que intentó alertar sobre el brote de coronavirus en su país, pero fue detenido por las autoridades y obligado a retractarse, ¿qué harías en su caso?

Si yo hubiera estado en la posición del médico Li Wenliang hubiera esparcido la información por la prensa y por medio de redes sociales que estuviera en mis manos, debido a que es una información tanto delicada como importante como para esconderla. Como sabemos China vive en un gobierno totalitarista, razón por la que lo que le paso al médico por compartir en un chat privado esa información fue que la policía lo detuvo hasta que él y su familia presentaron síntomas del virus. Pienso que lo mejor en esta situación, teniendo la idea de que ese virus encontrado es muy peligroso y afecto a todo el mundo, crearía intriga y la curiosidad necesaria en las redes sociales para que el gobierno y las instituciones pertinentes investiguen y hagan acciones respecto a como evitar la propagación del virus recién encontrado. A lo mejor me perjudicaría personalmente y el gobierno me retendría por divulgar esa información, pero por lo menos lograría que la gente se enterara del brote y que exigiera al gobierno a investigar y prevenir lo peor de la propagación del virus.

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- [5.2] Bello, C. (2023, 26 abril). Arcturus: lo que hay que saber sobre esta variante de COVID 19 que hay que vigilar según la OMS. euronews. <https://es.euronews.com/next/2023/04/26/arcturus-lo-que-hay-que-saber-sobre-esta-variante-de-covid-19-que-hay-que-vigilar-segun-la>
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PARTE 2

- *Función para saber la longitud de una secuencia*

```
tamSeq <- function(dnaseq) {
  contador <- 0
  for (i in 1:length(dnaseq)) {
    contador <- contador + 1
  }
  print(paste0("Tamaño de la secuencia = ", contador))
}
```

- *Función para sacar todos los nucleotidos de la secuencia de cada variante*

```
countNucleotidos <- function(dnaseq){
  bases <- c("C", "G", "A", "T")
  amount =c(0, 0, 0, 0)
  for(i in 1:length(bases)){
    contador <- 0
    for(j in 1:length(dnaseq)){
      if (bases [i] == dnaseq [j]){
        contador <- contador + 1
      }
    }
    amount[i] <- contador*100/length(dnaseq)
  }
}
# Imprime en % de Nucleotidos de la secuencia que esta siendo evaluada en la función
cat("% de Nucleotidos\n", amount[1], "%C", amount[2], "%G", amount[3], "%A",
    amount[4], "%T")
return(amount)
}
```

- *Función para contar el %GC que hay en cada secuencia*

```
contadorGC <- function(dnaseq) {
  bases <- c("C", "G")
  c <- 0
  for(i in 1:length(bases)){
    contador <- 0
    for(j in 1:length(dnaseq)){
      if (bases [i] == dnaseq [j]){
        contador <- contador + 1
      }
    }
  }
}
```

```

    }
  }
  amount <- contador*100/length(dnaseq)
  c <- amount + c
}
print(paste0("%GC en la secuencia : ", c, "%"))
}

```

- *Función para sacar la secuencia contrasentido*

```

reverse <- function(dnaseq) {
  hebraInversa <- rev(dnaseq)
  return(hebraInversa)
}

```

1. Obtén las secuencias de las variantes de SARS-CoV-2

Lectura de archivos FASTA y guardarlo dentro del código para no tener que buscar dentro del archivo cada vez que necesite las secuencias

#Librerías necesarias para poder leer archivos por medio de "seqinr"

```

library(seqinr)
library(ape)

```

```

##
## Attaching package: 'ape'

```

```

## The following objects are masked from 'package:seqinr':

```

```

##
##      as.alignment, consensus

```

#WUHAN <- Primer variante detectada

```

Wuhan <- seqinr::read.fasta(file=paste0(getwd(),.Platform$file.sep,
                                         .Platform$file.sep,"Wuhan.fasta"), seqtype = "AA")

```

#ALPHA <- Encontrada en Reino Unido

```

Alpha <- seqinr::read.fasta(file=paste0(getwd(),.Platform$file.sep,
                                         .Platform$file.sep,"Alpha.fasta"), seqtype = "AA")

```

#DELTA <- Encontrada en India

```

Delta <- seqinr::read.fasta(file=paste0(getwd(),.Platform$file.sep,
                                         .Platform$file.sep,"Delta.fasta"), seqtype = "AA")

```

#OMICRON <- Encontrada en Sudáfrica

```

Omicron <- seqinr::read.fasta(file=paste0(getwd(),.Platform$file.sep,
                                           .Platform$file.sep,"Omicron.fasta"), seqtype = "AA")

```

#ACTUAL <- Variante más reciente en México

```

Actual <- seqinr::read.fasta(file=paste0(getwd(),.Platform$file.sep,
                                           .Platform$file.sep,"Actual.fasta"), seqtype = "AA")

```

- *Sacar la cantidad de nucleótidos de cada secuencia para comparar su estructura molecular*

#WUHAN

```

Wuhan_arr <- countNucleotidos(unlist(seqinr::getSequence(Wuhan)))

```

```

## % de Nucleotidos

```

```

## 18.36605 %C 19.60673 %G 29.94348 %A 32.08374 %T

```

```

#ALPHA
Alpha_arr <- countNucleotidos(unlist(seqinr::getSequence(Alpha)))

## % de Nucleotidos
## 18.35986 %C 19.6285 %G 29.87516 %A 32.13649 %T

#DELTA
Delta_arr <- countNucleotidos(unlist(seqinr::getSequence(Delta)))

## % de Nucleotidos
## 18.3101 %C 19.60048 %G 29.80963 %A 32.13903 %T

#OMICRON
Omicron_arr <- countNucleotidos(unlist(seqinr::getSequence(Omicron)))

## % de Nucleotidos
## 18.11182 %C 19.37263 %G 29.5061 %A 31.66459 %T

#OMICRON
Actual_arr <- countNucleotidos(unlist(seqinr::getSequence(Actual)))

## % de Nucleotidos
## 18.3244 %C 19.59594 %G 29.87622 %A 32.20007 %T

```

- *Función para graficar las secuencias de las diferentes variantes*

```

#Libreria necesaria para poder graficar con "ggplot"
library("ggplot2")
graficar <- function(Wuhan, Alpha, Delta, Omcron, Actual){
  #Variantes que vamos a comparar en la gráfica
  variantes <- c("Wuhan", "Alpha", "Delta", "Omicron", "Actual")
  #Porcentaje de nucleotidos que tienen las secuencias de cada variante
  conteo <- c(Wuhan_arr, Alpha_arr, Delta_arr, Omicron_arr, Actual_arr)
  #Nucleotidos que van a ser comparados en la gráfica
  Nucleotidos <- c("C", "G", "A", "T")
  #Datos que van a ser proyectados en la gráfica
  df <- data.frame(variantes, conteo, Nucleotidos)

  #Función "ggplot" para graficar (Asignación de los valores en cada eje de la gráfica) +
  #(creación de una gráfica de barras) + (Nombres de los ejes "x" y "y") + (Nombre de
  #la gráfica) + (Posición del título) + (Color de los nucleotidos dentro de la gráfica)
  ggplot(df, aes(x = variantes, y = conteo, fill = Nucleotidos)) +
    geom_bar(stat = "identity", position = "dodge") + xlab("Secuencia") +
    ylab("Nucleotidos (%)") + ggtitle("Composición de nucleótidos de 5 variantes") +
    theme(plot.title = element_text(hjust = 0.5)) +
    scale_fill_manual(values = c("C"="orange", "G"="green", "A"="red", "T"="purple"))
}

```

2. Calcula la longitud de las secuencias de cada variante.

```

#WUHAN
tamSeq(unlist(seqinr::getSequence(Wuhan)))

## [1] "Tamaño de la secuencia = 29903"

```

```
#ALPHA  
tamSeq(unlist(seqinr::getSequence(Alpha)))
```

```
## [1] "Tamaño de la secuencia = 29717"
```

```
#DELTA  
tamSeq(unlist(seqinr::getSequence(Delta)))
```

```
## [1] "Tamaño de la secuencia = 29836"
```

```
#OMICRON  
tamSeq(unlist(seqinr::getSequence(Omicron)))
```

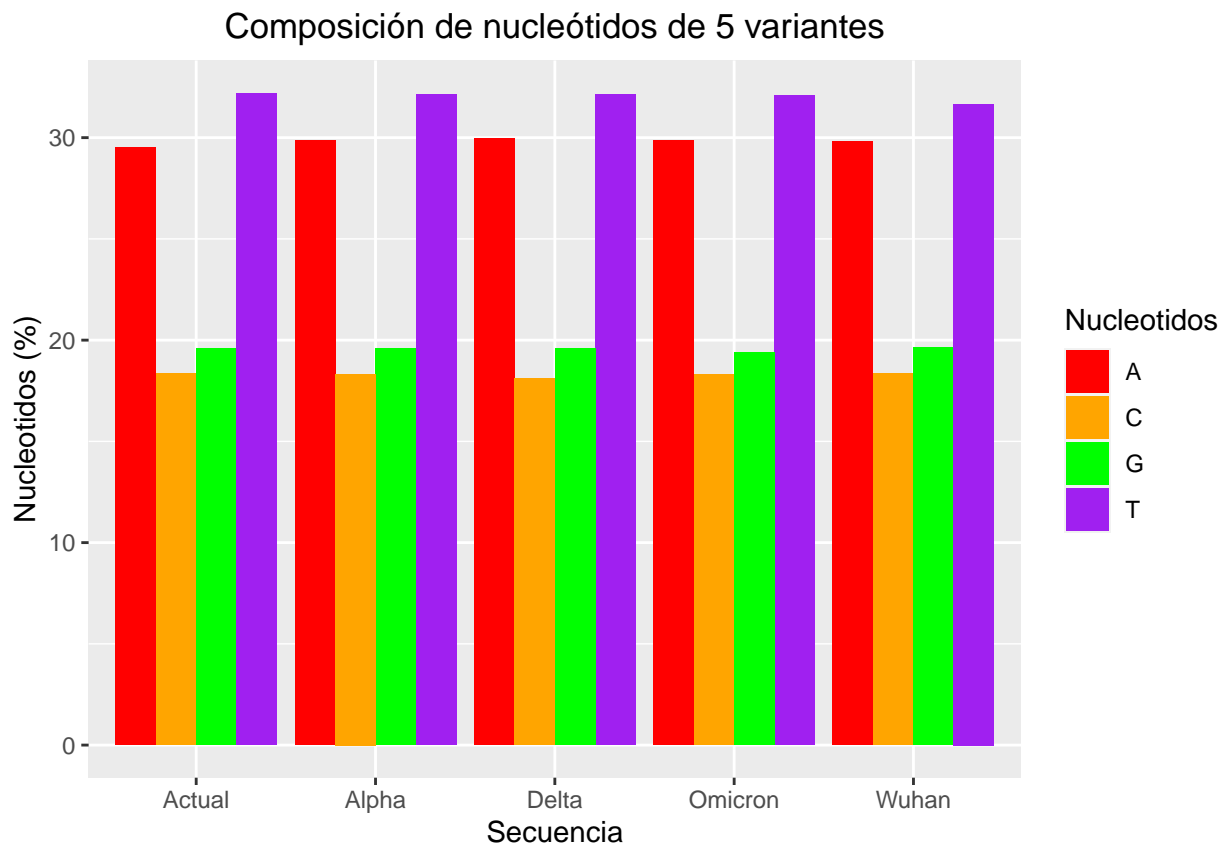
```
## [1] "Tamaño de la secuencia = 29743"
```

```
#ACTUAL  
tamSeq(unlist(seqinr::getSequence(Actual)))
```

```
## [1] "Tamaño de la secuencia = 29649"
```

3. Crea una gráfica donde compares las bases de ADN que componen a cada una de las variantes del virus.

```
graficar(Wuhan_arr, Alpha_arr, Delta_arr, Omicron_arr, Actual_arr)
```



3.1 Interpretación de la gráfica

En la gráfica podemos ver de manera más clara como es que las variantes están relacionadas con la variante original (Wuhan). Podemos ver tanto en la gráfica como en la función que saca la cantidad de nucleótidos que los porcentajes de los nucleótidos son demasiado similares, pero a pesar de eso la cantidad de nucleótidos que tienen diferentes son muchísimos aunque no podamos identificar eso en la gráfica ni en los porcentajes. Un ejemplo es el % de la Timina:

- Wuhan = 32.08374 %T
- Alpha = 32.13649 %T
- Delta = 32.13903 %T
- Omicron = 31.66459 %T
- Actual = 32.20007 %T

Como mencioné, a simple vista en los porcentajes no se aprecia la gran diferencia que poseen las variantes. Ahora hagamos el cálculo de cuántos nucleótidos diferentes tienen las primeras 2 variantes solo para ver que tan diferentes son una de la otra solo comparando la diferencia de porcentaje de la Timina:

- $32.13649 - 32.08374 = 0.05275$ %T

La variante Wuhan tiene una diferencia del 0.05275% menos de Timina que la variante Alpha. Ahora cuántos nucleótidos en la secuencia de la variante Alpha equivale ese porcentaje:

- $(0.05275 \times 29717)/100 = 15.6757175$ nucleótidos de Timina en la variante Alpha

Ahora con este cálculo podemos ver de manera más clara como ese pequeño porcentaje de diferencia de nucleótidos de Timina que no alcanza a llegar ni al 0.01% causa una gran diferencia en la cantidad de nucleótidos entre las variantes. Esto podemos pensar que no tiene un cambio significativo en la secuencia pero todo lo contrario, si en una secuencia cambia aunque sea un solo nucleótido esto cambia la estructura del virus o variante que podría llegar a ser la diferencia en que si te contagias puedas recuperarte o sea una enfermedad incurable o muy agresiva al contacto con el cuerpo humano.

Por eso estas pequeñas diferencias, que en algunas de las barras no logramos apreciar debido al pequeño porcentaje de diferencia que se tiene, son muy importantes en la biología.

4. ¿Cuál es el %GC de cada variante?

```
#WUHAN
contadorGC(unlist(seqinr::getSequence(Wuhan)))

## [1] "%GC en la secuencia : 37.9727786509715%"

#ALPHA
contadorGC(unlist(seqinr::getSequence(Alpha)))

## [1] "%GC en la secuencia : 37.9883568327893%"

#DELTA
contadorGC(unlist(seqinr::getSequence(Delta)))

## [1] "%GC en la secuencia : 37.9105778254458%"

#OMICRON
contadorGC(unlist(seqinr::getSequence(Omicron)))

## [1] "%GC en la secuencia : 37.4844501227179%"

#ACTUAL
contadorGC(unlist(seqinr::getSequence(Actual)))
```

```
## [1] "%GC en la secuencia : 37.9203345812675%"
```

5. Crea las secuencias contrasentido de cada variante.

```
#WUHAN
```

```
reverse(unlist(seqinr::getSequence(Wuhan)))
```

```
##      [1] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "A"
##     [19] "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "A" "C" "A" "G"
##     [37] "T" "A" "A" "G" "A" "G" "G" "A" "T" "T" "C" "T" "T" "C" "G" "A" "T" "A"
##     [55] "A" "T" "T" "T" "T" "A" "G" "T" "G" "T" "A" "C" "C" "C" "C" "T" "A" "T"
##     [73] "C" "G" "T" "G" "A" "T" "G" "A" "T" "T" "T" "T" "A" "A" "T" "T" "A" "A"
##     [91] "A" "A" "T" "G" "T" "G" "T" "A" "A" "T" "C" "C" "C" "G" "A" "G" "A" "A"
##    [109] "G" "G" "T" "A" "T" "A" "T" "C" "C" "G" "T" "C" "G" "A" "G" "A" "G" "G"
##    [127] "G" "A" "T" "C" "G" "T" "A" "A" "C" "A" "A" "G" "T" "G" "A" "C" "A" "T"
##    [145] "G" "T" "G" "A" "G" "C" "T" "A" "G" "C" "A" "T" "G" "A" "G" "G" "C" "G"
##    [163] "C" "A" "C" "C" "G" "G" "A" "G" "C" "C" "A" "C" "T" "T" "T" "T" "A" "C"
##    [181] "A" "C" "C" "A" "C" "C" "G" "A" "G" "A" "A" "A" "G" "T" "T" "C" "A" "G"
##    [199] "G" "A" "G" "G" "G" "A" "T" "T" "A" "C" "A" "A" "T" "G" "T" "G" "T" "G"
##    [217] "A" "C" "T" "A" "A" "T" "T" "T" "C" "T" "A" "A" "C" "G" "A" "T" "A" "C"
##    [235] "A" "C" "T" "C" "T" "A" "A" "T" "T" "T" "C" "A" "A" "T" "T" "G" "A" "T"
##    [253] "G" "T" "A" "G" "A" "T" "G" "A" "A" "C" "A" "C" "G" "A" "T" "A" "C" "A"
##    [271] "T" "C" "A" "A" "T" "G" "C" "T" "C" "T" "T" "A" "A" "G" "T" "A" "A" "G"
##    [289] "A" "C" "G" "T" "G" "T" "T" "C" "T" "C" "A" "T" "C" "T" "G" "A" "T" "A"
##    [307] "T" "A" "T" "A" "G" "C" "A" "T" "T" "T" "G" "C" "C" "T" "T" "T" "T" "C"
##    [325] "G" "C" "T" "T" "T" "T" "G" "C" "A" "A" "A" "T" "A" "T" "A" "T" "C" "G"
##    [343] "G" "G" "T" "A" "G" "A" "C" "G" "G" "A" "A" "C" "A" "C" "A" "C" "C" "A"
##    [361] "G" "A" "C" "G" "T" "A" "C" "T" "C" "A" "A" "A" "T" "C" "C" "G" "G" "A"
##    [379] "C" "T" "C" "A" "A" "C" "T" "C" "A" "G" "T" "C" "G" "T" "G" "A" "C" "G"
##    [397] "A" "G" "T" "A" "C" "C" "T" "A" "A" "C" "A" "A" "C" "G" "T" "T" "A" "A"
##    [415] "C" "A" "A" "A" "C" "C" "T" "C" "T" "T" "T" "A" "G" "T" "A" "G" "G" "T"
##    [433] "T" "T" "A" "G" "A" "C" "G" "T" "C" "G" "T" "C" "C" "T" "T" "C" "T" "T"
##    [451] "C" "T" "C" "A" "G" "T" "G" "T" "C" "A" "A" "A" "C" "G" "A" "C" "A" "A"
##    [469] "A" "G" "A" "A" "G" "A" "C" "A" "G" "A" "G" "A" "C" "G" "C" "C" "A" "T"
##    [487] "T" "C" "C" "G" "A" "A" "C" "T" "C" "A" "A" "A" "G" "T" "A" "G" "T" "C"
##    [505] "G" "G" "A" "A" "G" "A" "A" "G" "A" "A" "A" "A" "A" "C" "A" "G" "G" "A"
##    [523] "A" "A" "A" "A" "T" "C" "C" "G" "A" "G" "A" "C" "A" "A" "C" "C" "A" "C"
##    [541] "C" "C" "T" "T" "A" "C" "A" "A" "A" "A" "C" "A" "T" "A" "C" "G" "C" "A"
##    [559] "G" "T" "T" "A" "T" "A" "C" "G" "A" "A" "T" "A" "A" "G" "T" "C" "G" "T"
##    [577] "T" "T" "T" "A" "C" "T" "G" "A" "A" "C" "T" "A" "G" "A" "A" "A" "C" "T"
##    [595] "T" "T" "A" "A" "A" "C" "C" "T" "A" "G" "A" "A" "A" "C" "A" "G" "T" "A"
##    [613] "G" "G" "T" "T" "A" "A" "A" "C" "T" "A" "C" "C" "G" "T" "G" "G" "A" "C"
##    [631] "A" "C" "A" "T" "C" "C" "A" "G" "T" "T" "G" "G" "T" "G" "C" "A" "A" "G"
##    [649] "G" "G" "C" "T" "T" "C" "C" "A" "C" "A" "C" "T" "G" "A" "A" "G" "G" "T"
##    [667] "A" "C" "G" "G" "T" "T" "A" "C" "G" "C" "G" "C" "T" "G" "T" "A" "A" "G"
##    [685] "G" "C" "T" "T" "C" "T" "T" "G" "C" "G" "A" "C" "T" "T" "C" "G" "C" "G"
##    [703] "A" "C" "C" "C" "C" "C" "G" "T" "T" "T" "A" "A" "C" "A" "C" "G" "T" "T"
##    [721] "A" "A" "A" "C" "G" "C" "C" "G" "G" "T" "T" "A" "C" "A" "A" "A" "C" "A"
##    [739] "T" "T" "A" "G" "T" "C" "A" "A" "G" "G" "A" "A" "C" "A" "G" "A" "C" "T"
##    [757] "A" "A" "T" "C" "A" "A" "G" "G" "A" "C" "C" "A" "G" "G" "G" "G" "T" "T"
##    [775] "T" "T" "A" "A" "A" "G" "G" "A" "A" "C" "C" "C" "A" "A" "A" "C" "A" "A"
##    [793] "G" "A" "C" "C" "T" "G" "G" "T" "G" "C" "A" "G" "A" "C" "G" "G" "C" "T"
##    [811] "T" "T" "C" "G" "A" "A" "C" "A" "C" "A" "A" "T" "G" "T" "A" "A" "C" "A"
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## [829] "T" "A" "C" "G" "A" "A" "A" "T" "C" "A" "C" "C" "G" "T" "C" "A" "T" "G"
## [847] "C" "A" "A" "A" "A" "A" "C" "G" "G" "C" "T" "C" "C" "G" "A" "A" "G" "A"
## [865] "A" "T" "C" "T" "T" "C" "G" "G" "A" "G" "T" "C" "G" "T" "C" "G" "T" "C"
## [883] "T" "A" "A" "A" "G" "A" "A" "T" "C" "A" "C" "T" "G" "T" "C" "A" "A" "A"
## [901] "C" "C" "G" "G" "A" "A" "C" "A" "A" "C" "A" "A" "C" "A" "A" "C" "C" "G"
## [919] "G" "A" "A" "A" "T" "G" "G" "T" "C" "T" "G" "T" "A" "A" "A" "A" "C" "G"
## [937] "A" "G" "A" "G" "T" "T" "C" "G" "A" "C" "C" "A" "A" "G" "T" "T" "A" "G"
## [955] "A" "C" "A" "G" "T" "T" "C" "G" "T" "C" "G" "T" "C" "G" "T" "T" "T" "C"
## [973] "G" "T" "T" "C" "T" "C" "G" "T" "C" "G" "T" "A" "G" "T" "G" "G" "C" "G"
## [991] "G" "T" "A" "A" "C" "G" "G" "T" "C" "G" "G" "T" "A" "A" "G" "A" "T" "C"
## [1009] "G" "T" "C" "C" "T" "C" "T" "T" "C" "A" "A" "G" "G" "G" "G" "A" "T" "G"
## [1027] "A" "C" "G" "A" "C" "G" "G" "A" "C" "C" "T" "C" "A" "A" "C" "T" "T" "A"
## [1045] "A" "A" "G" "A" "A" "C" "T" "T" "G" "A" "C" "A" "A" "C" "G" "C" "T" "G"
## [1063] "A" "T" "G" "C" "A" "C" "T" "A" "C" "T" "C" "C" "T" "T" "G" "C" "T" "C"
## [1081] "T" "T" "C" "T" "C" "C" "G" "A" "A" "C" "T" "G" "A" "C" "G" "G" "C" "G"
## [1099] "G" "A" "G" "A" "C" "G" "A" "G" "G" "G" "A" "A" "G" "A" "C" "G" "C" "A"
## [1117] "T" "C" "T" "T" "C" "G" "G" "A" "A" "A" "A" "C" "C" "G" "T" "T" "A" "C"
## [1135] "A" "A" "C" "A" "A" "G" "G" "A" "A" "C" "T" "C" "C" "T" "T" "C" "A" "A"
## [1153] "C" "A" "T" "C" "G" "T" "G" "C" "T" "A" "A" "C" "G" "T" "C" "G" "T" "A"
## [1171] "A" "C" "A" "A" "T" "C" "G" "T" "C" "C" "T" "A" "A" "C" "G" "C" "C" "C"
## [1189] "A" "C" "G" "G" "T" "T" "A" "C" "A" "C" "T" "A" "G" "A" "A" "A" "A" "C"
## [1207] "C" "A" "C" "A" "T" "A" "A" "G" "T" "T" "C" "C" "G" "A" "G" "G" "G" "A"
## [1225] "G" "T" "C" "A" "A" "C" "G" "T" "T" "G" "G" "G" "T" "A" "T" "A" "C" "T"
## [1243] "A" "C" "G" "G" "C" "A" "G" "A" "A" "A" "C" "A" "A" "T" "C" "G" "T" "G"
## [1261] "G" "T" "A" "T" "C" "C" "C" "T" "T" "C" "A" "G" "G" "T" "C" "G" "A" "A"
## [1279] "G" "A" "C" "C" "G" "G" "G" "T" "C" "A" "A" "G" "G" "A" "T" "C" "C" "A"
## [1297] "T" "C" "A" "T" "C" "T" "T" "T" "A" "T" "G" "G" "T" "A" "G" "A" "A" "C"
## [1315] "C" "T" "G" "A" "C" "T" "C" "T" "A" "G" "A" "A" "A" "G" "T" "A" "A" "A"
## [1333] "A" "T" "G" "G" "C" "A" "G" "T" "G" "G" "T" "G" "G" "T" "G" "C" "T" "T"
## [1351] "A" "A" "G" "C" "A" "G" "A" "C" "C" "A" "T" "C" "G" "A" "G" "A" "A" "G"
## [1369] "C" "C" "A" "T" "C" "A" "T" "C" "G" "G" "T" "T" "A" "A" "A" "C" "C" "A"
## [1387] "G" "T" "A" "G" "A" "C" "C" "T" "G" "A" "C" "G" "A" "T" "A" "A" "C" "C"
## [1405] "A" "C" "A" "A" "T" "T" "A" "A" "C" "C" "T" "T" "G" "C" "G" "G" "A" "A"
## [1423] "C" "A" "G" "G" "A" "G" "C" "T" "C" "C" "C" "T" "T" "A" "A" "A" "T" "T"
## [1441] "C" "C" "A" "G" "A" "A" "G" "G" "A" "A" "C" "G" "G" "T" "A" "C" "A" "A"
## [1459] "C" "T" "C" "A" "C" "T" "C" "T" "C" "G" "C" "C" "A" "C" "T" "T" "G" "G"
## [1477] "T" "T" "C" "T" "G" "C" "G" "T" "C" "A" "T" "A" "A" "T" "A" "A" "C" "C"
## [1495] "C" "A" "T" "T" "T" "G" "G" "A" "A" "C" "C" "C" "C" "G" "G" "C" "T" "G"
## [1513] "C" "A" "A" "C" "A" "A" "A" "A" "C" "T" "A" "G" "C" "G" "C" "G" "G" "G"
## [1531] "G" "T" "G" "A" "C" "G" "C" "A" "A" "G" "A" "G" "G" "T" "A" "A" "G" "A"
## [1549] "C" "C" "A" "A" "T" "G" "A" "C" "G" "G" "T" "C" "A" "A" "C" "T" "T" "A"
## [1567] "G" "A" "C" "T" "C" "C" "C" "A" "G" "G" "T" "G" "G" "T" "T" "T" "G" "C"
## [1585] "A" "T" "T" "A" "C" "G" "C" "C" "C" "C" "A" "C" "G" "T" "A" "A" "A" "G"
## [1603] "C" "G" "A" "C" "T" "A" "A" "A" "A" "C" "C" "C" "C" "A" "G" "G" "T" "A"
## [1621] "A" "T" "A" "G" "T" "C" "T" "G" "T" "A" "A" "A" "A" "T" "C" "A" "A" "A"
## [1639] "C" "A" "A" "G" "C" "A" "A" "A" "T" "C" "T" "A" "C" "T" "T" "T" "A" "G"
## [1657] "A" "T" "T" "T" "T" "G" "T" "T" "G" "T" "G" "C" "T" "T" "G" "C" "A" "G"
## [1675] "T" "A" "C" "T" "A" "T" "G" "A" "G" "A" "T" "T" "T" "T" "T" "C" "A" "G"
## [1693] "A" "A" "G" "T" "A" "T" "C" "T" "T" "G" "C" "T" "T" "G" "T" "T" "G" "C"
## [1711] "G" "T" "G" "A" "T" "G" "T" "T" "C" "T" "G" "A" "T" "G" "G" "G" "T" "T"
## [1729] "A" "A" "A" "T" "C" "C" "A" "A" "G" "G" "A" "C" "C" "G" "T" "T" "A" "A"
## [1747] "T" "T" "A" "A" "C" "A" "T" "T" "T" "T" "C" "C" "A" "T" "T" "T" "G" "T"
## [1765] "C" "C" "T" "T" "T" "G" "A" "C" "A" "T" "A" "T" "T" "A" "A" "T" "G" "G"
## [1783] "C" "T" "A" "T" "A" "G" "C" "T" "A" "C" "A" "T" "G" "A" "C" "T" "T" "A"

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## [1801] "C" "C" "C" "A" "C" "T" "A" "A" "A" "T" "C" "T" "T" "G" "G" "T" "C" "G"
## [1819] "G" "A" "G" "T" "A" "G" "G" "T" "G" "C" "G" "T" "G" "T" "T" "A" "A" "G"
## [1837] "T" "T" "A" "A" "T" "T" "T" "C" "C" "A" "C" "G" "A" "C" "T" "A" "A" "A"
## [1855] "A" "G" "A" "T" "C" "G" "A" "G" "G" "A" "T" "G" "A" "G" "A" "T" "T" "A"
## [1873] "T" "A" "T" "G" "G" "T" "A" "A" "A" "T" "C" "T" "T" "A" "T" "C" "T" "T"
## [1891] "C" "A" "C" "T" "T" "A" "T" "C" "C" "T" "G" "T" "G" "C" "C" "C" "A" "G"
## [1909] "T" "A" "G" "T" "T" "G" "A" "T" "G" "T" "A" "T" "A" "C" "C" "A" "A" "C"
## [1927] "T" "A" "C" "A" "A" "C" "T" "C" "A" "T" "G" "T" "A" "C" "T" "G" "A" "C"
## [1945] "A" "T" "T" "T" "G" "A" "T" "G" "T" "A" "A" "G" "A" "A" "C" "C" "A" "C"
## [1963] "T" "T" "T" "A" "C" "G" "T" "C" "G" "A" "T" "G" "T" "C" "A" "A" "C" "A"
## [1981] "C" "T" "A" "C" "T" "A" "A" "G" "G" "A" "T" "T" "C" "T" "T" "T" "T" "G"
## [1999] "T" "T" "C" "T" "T" "T" "A" "A" "A" "G" "T" "A" "C" "A" "A" "G" "C" "A"
## [2017] "A" "A" "T" "C" "C" "G" "C" "A" "C" "T" "G" "T" "T" "C" "A" "A" "A" "G"
## [2035] "T" "A" "A" "T" "A" "C" "T" "A" "G" "A" "A" "C" "G" "T" "C" "A" "A" "G"
## [2053] "T" "T" "C" "A" "C" "T" "C" "T" "T" "G" "G" "T" "T" "T" "T" "C" "T" "A"
## [2071] "T" "T" "A" "T" "T" "C" "G" "T" "A" "T" "T" "A" "A" "T" "T" "T" "T" "G"
## [2089] "T" "T" "C" "C" "T" "T" "A" "T" "C" "G" "T" "C" "T" "T" "T" "C" "C" "G"
## [2107] "A" "T" "T" "T" "T" "T" "C" "G" "T" "G" "T" "T" "T" "A" "T" "C" "T" "T"
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## [2143] "T" "T" "A" "G" "T" "A" "A" "G" "A" "C" "A" "G" "A" "A" "A" "G" "A" "A"
## [2161] "A" "A" "C" "T" "C" "A" "C" "A" "C" "T" "T" "C" "G" "T" "T" "T" "C" "A"
## [2179] "C" "A" "A" "T" "A" "T" "T" "T" "G" "T" "G" "A" "T" "A" "A" "C" "G" "G"
## [2197] "C" "G" "T" "T" "G" "T" "T" "A" "T" "T" "C" "T" "T" "T" "T" "T" "A" "A"
## [2215] "C" "C" "T" "C" "T" "C" "A" "T" "T" "T" "C" "A" "A" "G" "A" "A" "C" "T"
## [2233] "T" "G" "A" "A" "G" "G" "A" "G" "A" "A" "C" "A" "G" "A" "C" "T" "A" "C"
## [2251] "T" "T" "G" "T" "C" "A" "A" "A" "T" "C" "C" "A" "C" "T" "T" "T" "G" "A"
## [2269] "C" "T" "A" "G" "A" "C" "C" "G" "T" "G" "C" "A" "T" "T" "G" "A" "C" "T"
## [2287] "A" "T" "C" "T" "G" "C" "A" "C" "A" "A" "A" "A" "T" "G" "C" "G" "G" "C"
## [2305] "A" "G" "T" "C" "C" "T" "G" "T" "T" "C" "G" "T" "T" "T" "T" "C" "G" "T"
## [2323] "T" "T" "A" "A" "C" "T" "C" "A" "C" "G" "A" "T" "T" "T" "C" "G" "T" "T"
## [2341] "C" "A" "G" "T" "C" "A" "C" "G" "T" "T" "T" "A" "A" "A" "C" "A" "A" "T"
## [2359] "A" "G" "T" "C" "G" "A" "T" "C" "T" "C" "C" "T" "A" "C" "T" "T" "T" "A"
## [2377] "C" "C" "A" "C" "T" "T" "A" "A" "C" "G" "G" "G" "A" "G" "C" "A" "T" "A"
## [2395] "C" "A" "A" "G" "G" "T" "C" "T" "T" "C" "T" "C" "G" "T" "T" "C" "C" "A"
## [2413] "A" "G" "A" "A" "A" "A" "T" "T" "T" "T" "C" "A" "T" "G" "A" "C" "A" "A"
## [2431] "C" "A" "T" "G" "G" "A" "G" "A" "T" "T" "G" "T" "G" "T" "G" "A" "G" "A"
## [2449] "A" "C" "C" "A" "T" "C" "A" "C" "T" "A" "T" "T" "T" "C" "G" "A" "G" "T"
## [2467] "G" "T" "T" "C" "A" "T" "C" "G" "C" "T" "C" "A" "C" "A" "A" "T" "A" "G"
## [2485] "T" "C" "A" "C" "G" "G" "T" "T" "C" "T" "T" "T" "T" "C" "T" "T" "A" "T"
## [2503] "T" "A" "A" "A" "A" "G" "T" "A" "C" "A" "A" "G" "C" "A" "A" "A" "T" "T"
## [2521] "A" "G" "T" "T" "A" "G" "A" "G" "G" "T" "A" "A" "C" "C" "A" "A" "C" "G"
## [2539] "A" "G" "A" "A" "G" "T" "A" "G" "A" "T" "T" "A" "A" "C" "T" "C" "T" "T"
## [2557] "A" "T" "A" "A" "A" "T" "A" "A" "G" "A" "G" "T" "C" "A" "A" "T" "C" "A"
## [2575] "C" "T" "G" "A" "A" "T" "C" "T" "A" "T" "T" "T" "A" "A" "A" "A" "A" "T"
## [2593] "T" "A" "A" "T" "A" "C" "T" "C" "C" "A" "A" "A" "T" "A" "C" "T" "A" "C"
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## [2647] "T" "A" "T" "T" "A" "T" "T" "A" "A" "T" "C" "A" "T" "T" "A" "T" "A" "G"
## [2665] "A" "G" "A" "C" "G" "A" "T" "A" "T" "C" "A" "T" "T" "G" "G" "A" "C" "T"
## [2683] "T" "T" "C" "A" "G" "T" "T" "G" "C" "T" "C" "T" "A" "C" "T" "T" "T" "G"
## [2701] "T" "A" "G" "A" "C" "A" "A" "C" "A" "G" "T" "G" "A" "A" "T" "G" "A" "C"
## [2719] "A" "T" "G" "T" "T" "C" "G" "T" "T" "T" "C" "G" "T" "T" "A" "T" "A" "A"
## [2737] "C" "A" "G" "T" "G" "A" "C" "G" "A" "T" "G" "A" "C" "C" "T" "T" "A" "C"
## [2755] "C" "A" "G" "A" "C" "A" "C" "A" "A" "A" "T" "T" "A" "A" "A" "T" "A" "T"

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## [2773] "C" "A" "A" "C" "G" "G" "T" "T" "A" "G" "G" "A" "C" "A" "T" "C" "G" "C"
## [2791] "T" "G" "A" "C" "A" "T" "A" "C" "G" "T" "C" "G" "T" "T" "T" "T" "G" "G"
## [2809] "A" "C" "T" "C" "A" "G" "T" "G" "G" "A" "C" "G" "A" "T" "G" "T" "G" "C"
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## [2863] "A" "C" "T" "A" "C" "A" "T" "C" "G" "T" "T" "G" "T" "C" "A" "C" "T" "A"
## [2881] "A" "A" "G" "A" "A" "A" "T" "C" "C" "G" "T" "C" "C" "A" "G" "G" "A" "A"
## [2899] "C" "T" "A" "C" "A" "G" "T" "G" "T" "C" "G" "C" "A" "G" "G" "A" "T" "C"
## [2917] "T" "A" "C" "C" "A" "C" "A" "G" "G" "T" "C" "G" "T" "T" "A" "T" "G" "C"
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## [2953] "G" "T" "G" "T" "C" "G" "A" "G" "G" "C" "T" "A" "A" "T" "G" "C" "T" "C"
## [2971] "A" "A" "G" "T" "G" "A" "A" "A" "G" "A" "T" "C" "T" "T" "C" "G" "C" "C"
## [2989] "A" "G" "A" "C" "C" "A" "G" "T" "C" "T" "T" "A" "T" "C" "A" "C" "G" "G"
## [3007] "T" "A" "C" "C" "T" "C" "A" "C" "C" "G" "T" "G" "C" "A" "A" "C" "T" "C"
## [3025] "T" "T" "C" "T" "T" "A" "C" "A" "A" "T" "C" "A" "A" "A" "G" "A" "C" "C"
## [3043] "T" "A" "A" "C" "T" "T" "A" "C" "T" "G" "G" "T" "G" "T" "A" "C" "C" "T"
## [3061] "T" "G" "C" "G" "C" "A" "T" "G" "C" "G" "C" "G" "T" "T" "T" "G" "T" "C"
## [3079] "A" "G" "A" "C" "T" "T" "T" "C" "T" "T" "C" "G" "T" "T" "A" "C" "T" "T"
## [3097] "C" "A" "T" "C" "G" "A" "C" "T" "C" "G" "G" "T" "G" "T" "A" "G" "T" "T"
## [3115] "C" "G" "G" "A" "T" "G" "T" "T" "C" "T" "G" "T" "T" "C" "G" "G" "T" "A"
## [3133] "A" "C" "G" "C" "T" "A" "T" "C" "G" "T" "T" "A" "A" "G" "G" "T" "G" "G"
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## [3169] "C" "A" "T" "T" "T" "G" "T" "C" "G" "T" "C" "G" "T" "T" "C" "G" "T" "G"
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## [3475] "T" "G" "T" "G" "C" "T" "C" "T" "C" "A" "T" "T" "T" "G" "C" "A" "T" "T"
## [3493] "T" "T" "T" "C" "T" "T" "C" "C" "A" "A" "A" "A" "T" "G" "T" "T" "C" "T"
## [3511] "G" "A" "G" "T" "G" "C" "A" "A" "T" "T" "G" "T" "T" "A" "T" "A" "A" "C"
## [3529] "G" "T" "C" "G" "T" "C" "A" "T" "G" "C" "G" "T" "G" "T" "G" "T" "T" "A"
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## [3565] "C" "G" "A" "T" "C" "A" "C" "A" "T" "T" "G" "A" "T" "C" "G" "T" "T" "C"
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## [3601] "T" "T" "T" "T" "C" "T" "T" "C" "A" "T" "G" "C" "G" "A" "T" "A" "A" "T"
## [3619] "T" "G" "A" "T" "A" "A" "T" "T" "G" "C" "A" "T" "G" "G" "A" "C" "A" "G"
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## [3673] "A" "G" "T" "C" "G" "A" "A" "C" "A" "C" "G" "A" "A" "T" "G" "T" "T" "T"
## [3691] "C" "C" "G" "T" "G" "C" "G" "A" "T" "C" "A" "T" "C" "A" "G" "C" "A" "G"
## [3709] "C" "A" "G" "C" "C" "A" "A" "G" "T" "A" "G" "T" "A" "T" "T" "T" "A" "A"
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## [3745] "T" "G" "T" "T" "G" "A" "G" "G" "C" "C" "T" "A" "C" "T" "T" "G" "G" "C"
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## [3871] "T" "C" "G" "A" "C" "C" "A" "T" "T" "A" "T" "C" "A" "G" "A" "C" "T" "T"
## [3889] "C" "A" "C" "T" "T" "C" "A" "T" "T" "G" "A" "C" "A" "C" "A" "T" "T" "A"
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## [3925] "G" "G" "T" "C" "T" "A" "A" "G" "G" "G" "T" "A" "A" "A" "A" "A" "G" "T"
## [3943] "C" "A" "T" "A" "T" "T" "G" "G" "T" "G" "G" "T" "T" "A" "G" "A" "C" "C"
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## [3979] "C" "C" "T" "G" "A" "A" "C" "A" "A" "C" "A" "C" "G" "G" "T" "A" "G" "T"
## [3997] "G" "G" "A" "C" "T" "T" "C" "A" "T" "T" "A" "C" "T" "G" "T" "T" "A" "A"
## [4015] "C" "T" "T" "C" "T" "T" "C" "A" "A" "T" "G" "T" "G" "A" "T" "A" "A" "C"
## [4033] "A" "T" "T" "C" "C" "A" "T" "A" "T" "G" "T" "T" "A" "T" "C" "A" "G" "C"
## [4051] "A" "T" "T" "G" "T" "T" "A" "A" "T" "C" "A" "T" "A" "C" "G" "G" "T" "C"
## [4069] "G" "T" "T" "T" "C" "T" "T" "T" "T" "A" "T" "C" "A" "A" "C" "C" "G" "T"
## [4087] "A" "G" "T" "A" "T" "T" "T" "C" "A" "T" "T" "A" "C" "C" "C" "A" "A" "A"
## [4105] "A" "A" "C" "C" "T" "T" "G" "C" "C" "G" "T" "A" "A" "A" "G" "G" "T" "C"
## [4123] "G" "T" "T" "T" "C" "G" "G" "T" "T" "T" "C" "G" "G" "A" "G" "T" "A" "A"
## [4141] "T" "A" "A" "T" "A" "A" "G" "A" "A" "T" "G" "T" "T" "T" "C" "A" "A" "A"
## [4159] "T" "A" "T" "G" "A" "G" "A" "C" "G" "T" "T" "C" "T" "T" "C" "A" "T" "C"
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## [4213] "G" "G" "T" "C" "G" "T" "C" "G" "T" "T" "G" "C" "T" "C" "G" "T" "T" "T"
## [4231] "T" "C" "C" "A" "C" "A" "C" "T" "C" "A" "T" "T" "T" "G" "A" "C" "A" "A"
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## [4285] "G" "G" "G" "A" "A" "C" "C" "T" "C" "T" "C" "A" "C" "G" "A" "T" "C" "A"
## [4303] "A" "C" "G" "G" "T" "A" "G" "A" "G" "A" "A" "A" "A" "A" "C" "T" "C" "C"
## [4321] "C" "A" "A" "T" "A" "C" "T" "A" "A" "A" "A" "C" "C" "T" "T" "C" "G" "C"
## [4339] "G" "A" "G" "A" "C" "T" "T" "T" "T" "T" "G" "T" "C" "G" "T" "T" "C" "T"
## [4357] "T" "C" "A" "C" "G" "T" "T" "G" "C" "G" "G" "T" "T" "G" "T" "T" "A" "T"
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## [4393] "C" "T" "C" "C" "G" "A" "A" "C" "A" "T" "A" "G" "C" "C" "A" "T" "A" "G"
## [4411] "C" "A" "A" "C" "G" "T" "C" "A" "T" "C" "G" "C" "G" "C" "T" "T" "G" "T"
## [4429] "T" "T" "T" "A" "G" "A" "C" "T" "T" "C" "C" "T" "C" "A" "T" "C" "G" "T"
## [4447] "A" "G" "G" "A" "A" "C" "T" "A" "A" "A" "G" "T" "G" "G" "A" "A" "C" "G"
## [4465] "A" "A" "G" "T" "T" "T" "C" "A" "A" "T" "G" "T" "C" "A" "A" "G" "G" "T"
## [4483] "T" "A" "A" "C" "A" "C" "T" "T" "C" "T" "A" "A" "G" "A" "G" "T" "A" "T"
## [4501] "T" "T" "G" "T" "T" "T" "A" "G" "G" "T" "A" "T" "T" "C" "A" "A" "G" "C"
## [4519] "A" "A" "A" "T" "A" "C" "A" "C" "A" "T" "T" "A" "C" "A" "T" "T" "A" "A"
## [4537] "A" "C" "T" "G" "A" "G" "G" "A" "A" "A" "C" "T" "C" "G" "T" "G" "A" "C"
## [4555] "C" "G" "A" "G" "T" "C" "T" "C" "A" "G" "C" "A" "G" "A" "A" "G" "T" "A"
## [4573] "G" "T" "T" "T" "A" "A" "A" "C" "G" "T" "C" "G" "T" "C" "C" "T" "A" "G"
## [4591] "G" "T" "G" "T" "T" "C" "T" "T" "G" "T" "T" "G" "T" "C" "G" "G" "G" "A"
## [4609] "A" "C" "T" "C" "T" "G" "T" "T" "G" "A" "T" "G" "T" "C" "G" "T" "T" "G"
## [4627] "A" "C" "C" "A" "G" "T" "A" "T" "G" "T" "C" "G" "T" "T" "T" "C" "G" "T"
## [4645] "A" "T" "T" "A" "A" "C" "A" "G" "T" "G" "G" "T" "A" "A" "T" "G" "A" "T"
## [4663] "A" "C" "C" "G" "T" "T" "A" "G" "T" "T" "C" "G" "G" "T" "C" "G" "A" "T"
## [4681] "A" "T" "T" "T" "T" "G" "G" "A" "T" "C" "G" "G" "T" "T" "T" "A" "C" "A"
## [4699] "T" "G" "G" "T" "A" "C" "C" "G" "G" "T" "A" "A" "A" "A" "T" "A" "T" "A"

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## [4735] "C" "A" "A" "G" "A" "A" "C" "C" "T" "C" "T" "A" "G" "C" "T" "A" "C" "T"
## [4753] "C" "T" "C" "T" "A" "A" "G" "T" "A" "A" "A" "T" "T" "T" "A" "A" "G" "A"
## [4771] "A" "C" "C" "G" "T" "T" "G" "G" "A" "G" "T" "A" "A" "C" "T" "C" "C" "G"
## [4789] "C" "C" "A" "G" "T" "T" "A" "A" "A" "G" "A" "A" "A" "A" "A" "C" "T" "T"
## [4807] "A" "C" "A" "A" "A" "T" "G" "T" "T" "G" "A" "C" "T" "T" "C" "G" "T" "A"
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## [4843] "G" "A" "T" "T" "T" "A" "G" "T" "T" "G" "T" "A" "G" "A" "C" "C" "A" "C"
## [4861] "T" "A" "C" "A" "T" "A" "C" "T" "A" "A" "G" "A" "A" "T" "T" "T" "T" "A"
## [4879] "T" "A" "A" "A" "T" "A" "G" "A" "T" "T" "G" "A" "G" "G" "A" "G" "G" "A"
## [4897] "A" "C" "T" "T" "A" "C" "T" "C" "A" "G" "A" "T" "T" "A" "A" "G" "T" "C"
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## [4987] "A" "C" "A" "G" "A" "C" "A" "T" "C" "A" "T" "T" "A" "C" "T" "A" "A" "A"
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## [5041] "C" "A" "C" "A" "C" "G" "G" "T" "A" "A" "A" "C" "T" "T" "T" "G" "T" "T"
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## [5077] "T" "C" "A" "C" "A" "C" "G" "A" "A" "A" "A" "G" "G" "T" "A" "G" "T" "A"
## [5095] "C" "T" "G" "T" "T" "T" "A" "C" "C" "G" "T" "C" "C" "T" "C" "G" "T" "C"
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## [5131] "C" "A" "C" "G" "T" "C" "C" "C" "T" "G" "T" "A" "T" "T" "C" "A" "G" "T"
## [5149] "G" "T" "A" "C" "G" "T" "T" "C" "T" "T" "C" "T" "G" "A" "T" "G" "T" "G"
## [5167] "G" "T" "A" "C" "T" "C" "C" "A" "C" "G" "A" "C" "T" "G" "A" "C" "T" "C"
## [5185] "C" "C" "T" "T" "C" "C" "T" "G" "T" "A" "T" "T" "C" "T" "A" "C" "T" "A"
## [5203] "T" "C" "G" "G" "G" "A" "A" "A" "G" "G" "T" "G" "T" "T" "T" "T" "T" "A"
## [5221] "G" "T" "T" "G" "A" "G" "A" "A" "A" "A" "A" "C" "T" "A" "A" "C" "A" "G"
## [5239] "G" "T" "T" "C" "A" "T" "G" "T" "G" "T" "G" "A" "G" "A" "C" "T" "G" "T"
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## [5311] "C" "A" "A" "C" "T" "C" "A" "G" "T" "G" "T" "A" "T" "A" "C" "A" "G" "A"
## [5329] "C" "G" "T" "T" "T" "G" "A" "A" "A" "C" "T" "T" "C" "A" "G" "A" "C" "G"
## [5347] "G" "A" "C" "A" "C" "T" "A" "G" "T" "T" "G" "G" "A" "T" "A" "G" "T" "T"
## [5365] "A" "A" "A" "C" "G" "T" "G" "A" "A" "G" "T" "C" "G" "G" "A" "G" "T" "T"
## [5383] "G" "A" "A" "A" "C" "A" "G" "T" "T" "C" "T" "G" "C" "A" "C" "T" "T" "T"
## [5401] "C" "C" "T" "A" "T" "A" "G" "T" "A" "A" "A" "T" "T" "T" "T" "G" "T" "G"
## [5419] "A" "A" "C" "T" "T" "T" "A" "A" "C" "G" "T" "G" "G" "T" "T" "T" "T" "A"
## [5437] "A" "C" "C" "T" "C" "G" "A" "T" "T" "C" "A" "A" "C" "A" "A" "A" "T" "T"
## [5455] "G" "T" "T" "C" "G" "C" "A" "C" "A" "A" "A" "T" "T" "T" "C" "G" "A" "A"
## [5473] "C" "A" "C" "G" "T" "A" "A" "A" "A" "C" "C" "A" "A" "C" "T" "G" "G" "T"
## [5491] "G" "T" "A" "G" "A" "A" "C" "T" "T" "C" "A" "A" "A" "A" "G" "G" "T" "T"
## [5509] "C" "A" "C" "G" "T" "G" "A" "A" "C" "G" "A" "C" "A" "C" "C" "T" "T" "C"
## [5527] "T" "T" "T" "C" "A" "C" "T" "C" "A" "G" "A" "A" "C" "T" "T" "A" "A" "A"
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## [5563] "T" "A" "A" "C" "C" "A" "A" "C" "C" "G" "T" "T" "A" "G" "T" "T" "A" "A"
## [5581] "A" "A" "A" "C" "C" "A" "A" "G" "A" "G" "T" "A" "T" "C" "T" "C" "T" "T"
## [5599] "G" "T" "A" "A" "G" "A" "C" "A" "C" "A" "T" "T" "G" "A" "G" "G" "T" "T"
## [5617] "A" "T" "G" "G" "T" "A" "A" "T" "T" "T" "G" "G" "A" "T" "A" "T" "T" "C"
## [5635] "G" "G" "T" "A" "A" "A" "C" "G" "T" "A" "T" "C" "G" "T" "T" "T" "A" "C"
## [5653] "C" "A" "T" "A" "A" "A" "C" "A" "T" "T" "A" "C" "G" "T" "C" "G" "T" "G"
## [5671] "G" "A" "C" "G" "T" "G" "G" "T" "T" "T" "C" "C" "A" "G" "G" "T" "T" "G"

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## [5689] "G" "T" "C" "T" "T" "C" "A" "C" "T" "A" "A" "C" "A" "T" "G" "G" "G" "C"
## [5707] "G" "A" "T" "T" "G" "T" "C" "A" "C" "G" "T" "C" "T" "T" "C" "A" "C" "A"
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## [5761] "T" "T" "T" "G" "T" "C" "A" "T" "T" "C" "C" "G" "G" "C" "A" "A" "T" "T"
## [5779] "T" "G" "A" "A" "A" "A" "C" "A" "C" "G" "T" "G" "T" "T" "T" "A" "C" "T"
## [5797] "C" "C" "A" "G" "A" "G" "A" "T" "C" "G" "T" "C" "G" "T" "T" "A" "T" "A"
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## [5833] "T" "A" "A" "C" "A" "A" "A" "C" "T" "A" "C" "T" "T" "C" "G" "G" "T" "C"
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## [5869] "A" "C" "A" "A" "C" "T" "T" "T" "T" "C" "A" "T" "C" "T" "A" "G" "A" "A"
## [5887] "G" "T" "T" "A" "T" "T" "T" "A" "C" "T" "G" "G" "A" "G" "A" "A" "C" "G"
## [5905] "A" "A" "C" "C" "A" "A" "A" "A" "C" "T" "A" "C" "C" "T" "A" "G" "A" "C"
## [5923] "C" "A" "T" "T" "A" "T" "A" "A" "A" "C" "A" "C" "T" "T" "T" "T" "T" "A"
## [5941] "A" "T" "T" "T" "T" "G" "G" "T" "G" "G" "T" "T" "T" "T" "A" "G" "A" "A"
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## [5995] "G" "T" "T" "T" "T" "T" "G" "A" "A" "G" "A" "A" "C" "C" "C" "A" "C" "A"
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## [6085] "T" "T" "T" "C" "T" "A" "A" "C" "G" "A" "C" "G" "T" "A" "A" "G" "T" "C"
## [6103] "A" "A" "C" "T" "T" "A" "G" "T" "G" "G" "T" "G" "T" "T" "T" "A" "C" "A"
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## [6427] "G" "A" "C" "A" "T" "C" "T" "T" "A" "T" "T" "T" "G" "T" "G" "C" "G" "G"
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## [6481] "C" "C" "T" "G" "A" "A" "G" "A" "C" "A" "C" "G" "T" "C" "A" "A" "T" "T"
## [6499] "G" "T" "A" "G" "G" "A" "C" "T" "A" "T" "T" "T" "C" "T" "T" "G" "T" "C"
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## [6553] "G" "T" "G" "A" "C" "T" "G" "T" "G" "G" "T" "G" "G" "T" "T" "T" "T" "C"
## [6571] "T" "T" "G" "T" "A" "C" "C" "A" "C" "A" "T" "T" "A" "C" "A" "G" "T" "T"
## [6589] "C" "T" "T" "A" "G" "A" "G" "T" "T" "C" "A" "C" "A" "G" "A" "C" "A" "C"
## [6607] "C" "T" "A" "G" "T" "G" "C" "C" "T" "G" "T" "C" "G" "T" "A" "G" "T" "C"
## [6625] "A" "T" "C" "A" "C" "A" "G" "T" "C" "G" "T" "T" "A" "C" "A" "G" "A" "G"
## [6643] "A" "C" "G" "G" "T" "T" "T" "A" "A" "C" "A" "A" "C" "C" "T" "T" "T" "C"

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## [6661] "C" "G" "T" "C" "T" "T" "T" "G" "A" "A" "A" "A" "A" "C" "A" "A" "T" "C"
## [6679] "T" "G" "A" "G" "T" "C" "A" "T" "T" "C" "T" "T" "G" "T" "G" "G" "A" "C"
## [6697] "A" "C" "G" "G" "A" "C" "A" "A" "T" "T" "T" "G" "G" "T" "A" "A" "C" "T"
## [6715] "T" "C" "A" "A" "C" "T" "T" "T" "A" "A" "C" "T" "G" "T" "G" "T" "A" "A"
## [6733] "A" "C" "A" "A" "A" "A" "A" "T" "T" "G" "G" "T" "T" "T" "A" "A" "T" "C"
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## [6769] "T" "T" "T" "G" "T" "C" "A" "A" "C" "G" "A" "C" "C" "A" "C" "G" "T" "A"
## [6787] "C" "A" "T" "C" "T" "T" "C" "A" "A" "G" "T" "T" "T" "T" "C" "T" "T" "T"
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## [6841] "A" "T" "C" "A" "C" "C" "C" "A" "A" "C" "C" "T" "T" "T" "G" "G" "T" "A"
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## [6913] "A" "T" "G" "G" "C" "C" "G" "G" "A" "C" "T" "A" "T" "C" "T" "A" "A" "A"
## [6931] "G" "T" "C" "A" "A" "C" "T" "T" "T" "A" "T" "A" "G" "A" "G" "A" "G" "A"
## [6949] "G" "T" "T" "T" "T" "C" "C" "A" "A" "A" "C" "T" "C" "T" "A" "A" "T" "C"
## [6967] "T" "G" "A" "A" "G" "G" "A" "T" "T" "T" "G" "T" "T" "A" "G" "A" "T" "A"
## [6985] "T" "G" "T" "C" "C" "A" "T" "T" "A" "A" "T" "A" "T" "T" "A" "A" "T" "G"
## [7003] "G" "T" "G" "G" "T" "T" "G" "G" "A" "A" "T" "C" "T" "T" "A" "G" "T" "T"
## [7021] "C" "T" "A" "A" "C" "A" "A" "T" "C" "T" "T" "A" "A" "G" "G" "T" "T" "C"
## [7039] "G" "A" "T" "A" "T" "T" "G" "C" "G" "T" "C" "G" "G" "A" "C" "A" "T" "T"
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## [7111] "G" "C" "T" "A" "A" "A" "C" "A" "G" "A" "C" "T" "G" "A" "A" "G" "T" "A"
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## [7273] "A" "G" "A" "A" "G" "G" "A" "C" "A" "A" "G" "G" "T" "T" "C" "G" "T" "A"
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## [7399] "A" "A" "A" "C" "T" "A" "T" "C" "T" "A" "A" "G" "G" "A" "A" "A" "A" "A"
## [7417] "G" "A" "T" "G" "T" "C" "A" "C" "T" "T" "C" "C" "T" "A" "A" "A" "G" "T"
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## [7525] "A" "T" "C" "C" "A" "A" "C" "T" "T" "C" "T" "A" "T" "T" "G" "G" "G" "T"
## [7543] "G" "T" "A" "T" "T" "A" "T" "T" "C" "G" "A" "C" "G" "T" "C" "G" "T" "G"
## [7561] "G" "T" "C" "G" "A" "C" "A" "G" "G" "T" "T" "G" "G" "A" "C" "T" "T" "C"
## [7579] "T" "T" "C" "T" "T" "A" "G" "T" "G" "G" "T" "C" "C" "T" "C" "A" "G" "T"
## [7597] "T" "T" "A" "T" "T" "G" "A" "A" "G" "A" "T" "A" "C" "A" "T" "T" "T" "C"
## [7615] "G" "T" "T" "C" "A" "T" "T" "T" "C" "A" "A" "A" "C" "T" "T" "T" "G" "G"

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## [7633] "A" "T" "C" "A" "C" "T" "A" "C" "A" "A" "T" "T" "A" "T" "G" "G" "A" "T"
## [7651] "A" "A" "C" "C" "G" "T" "T" "T" "A" "G" "A" "T" "G" "G" "T" "T" "A" "C"
## [7669] "C" "A" "A" "G" "A" "T" "T" "T" "C" "G" "G" "C" "T" "T" "T" "T" "T" "G"
## [7687] "G" "G" "A" "C" "T" "C" "C" "C" "T" "C" "T" "A" "G" "T" "G" "C" "G" "T"
## [7705] "G" "A" "T" "T" "T" "A" "A" "T" "T" "A" "T" "C" "C" "G" "C" "A" "C" "A"
## [7723] "C" "G" "A" "A" "T" "C" "T" "T" "A" "T" "A" "T" "A" "A" "A" "A" "T" "T"
## [7741] "T" "T" "A" "T" "T" "G" "G" "T" "A" "G" "T" "T" "A" "T" "A" "A" "G" "A"
## [7759] "A" "T" "T" "T" "G" "T" "G" "T" "T" "T" "A" "A" "G" "G" "G" "A" "T" "T"
## [7777] "C" "T" "A" "A" "A" "A" "A" "C" "T" "T" "T" "A" "A" "T" "G" "G" "G" "A"
## [7795] "C" "A" "A" "A" "A" "G" "G" "A" "A" "G" "T" "T" "C" "C" "A" "G" "G" "T"
## [7813] "A" "T" "T" "C" "T" "T" "T" "T" "C" "C" "G" "A" "C" "T" "C" "T" "C" "T"
## [7831] "G" "T" "A" "T" "A" "A" "G" "T" "T" "T" "T" "C" "A" "C" "G" "T" "T" "A"
## [7849] "A" "T" "A" "A" "G" "C" "G" "T" "G" "A" "T" "C" "T" "T" "A" "T" "T" "T"
## [7867] "G" "A" "G" "A" "C" "T" "T" "G" "A" "G" "T" "G" "A" "A" "A" "G" "G" "T"
## [7885] "A" "G" "G" "T" "T" "G" "A" "A" "A" "A" "C" "A" "A" "C" "A" "A" "A" "A"
## [7903] "A" "C" "A" "C" "C" "A" "T" "T" "A" "T" "T" "T" "G" "T" "G" "G" "G" "T"
## [7921] "T" "T" "T" "T" "A" "C" "C" "T" "A" "G" "T" "A" "A" "T" "G" "T" "T" "T"
## [7939] "T" "A" "A" "C" "T" "T" "T" "A" "A" "G" "T" "G" "T" "C" "T" "G" "A" "A"
## [7957] "A" "T" "T" "A" "T" "T" "G" "T" "T" "G" "T" "A" "A" "T" "C" "A" "T" "C"
## [7975] "G" "C" "A" "A" "T" "A" "A" "T" "T" "G" "T" "T" "A" "T" "T" "C" "A" "T"
## [7993] "C" "C" "C" "T" "G" "A" "C" "C" "C" "A" "G" "A" "A" "G" "C" "T" "T" "A"
## [8011] "G" "A" "T" "T" "T" "C" "A" "T" "C" "A" "T" "G" "G" "T" "T" "T" "T" "T"
## [8029] "A" "G" "G" "T" "C" "G" "G" "A" "G" "A" "A" "T" "A" "A" "T" "A" "C" "A"
## [8047] "A" "T" "C" "T" "G" "A" "A" "G" "A" "G" "T" "C" "A" "C" "C" "T" "T" "C"
## [8065] "G" "T" "T" "T" "T" "A" "T" "T" "T" "G" "T" "G" "G" "T" "A" "G" "T" "A"
## [8083] "A" "T" "T" "T" "A" "C" "C" "A" "T" "C" "C" "T" "G" "T" "C" "C" "C" "A"
## [8101] "A" "T" "A" "G" "T" "T" "T" "G" "G" "A" "G" "A" "A" "T" "C" "A" "T" "G"
## [8119] "G" "T" "A" "A" "C" "C" "A" "G" "G" "G" "T" "C" "T" "C" "T" "G" "T" "A"
## [8137] "C" "A" "T" "A" "T" "C" "G" "T" "A" "C" "C" "T" "T" "G" "G" "T" "T" "C"
## [8155] "A" "T" "T" "G" "T" "A" "A" "C" "C" "T" "T" "T" "T" "C" "T" "T" "T" "C"
## [8173] "C" "A" "T" "T" "C" "T" "T" "G" "T" "T" "C" "A" "G" "G" "A" "C" "T" "C"
## [8191] "A" "A" "C" "T" "T" "A" "C" "A" "T" "T" "T" "T" "G" "A" "C" "T" "C" "C"
## [8209] "T" "A" "G" "A" "C" "T" "T" "T" "T" "G" "A" "A" "A" "C" "A" "G" "T" "C"
## [8227] "C" "C" "A" "T" "T" "A" "T" "T" "T" "G" "T" "G" "G" "T" "G" "C" "A" "C"
## [8245] "A" "C" "T" "T" "T" "C" "T" "T" "A" "A" "T" "C" "A" "C" "A" "T" "A" "C"
## [8263] "G" "T" "C" "C" "C" "C" "C" "A" "T" "T" "A" "A" "C" "T" "C" "A" "A" "G"
## [8281] "A" "C" "C" "A" "A" "C" "A" "T" "T" "C" "T" "A" "A" "T" "T" "G" "T" "G"
## [8299] "T" "G" "A" "C" "T" "G" "A" "T" "C" "T" "C" "T" "G" "A" "T" "C" "A" "C"
## [8317] "C" "G" "T" "T" "A" "T" "T" "T" "T" "G" "T" "T" "C" "T" "T" "T" "T" "T"
## [8335] "G" "T" "T" "T" "G" "T" "A" "A" "C" "A" "A" "G" "C" "A" "A" "A" "T" "C"
## [8353] "A" "A" "C" "A" "A" "T" "T" "G" "T" "T" "C" "T" "T" "G" "T" "A" "G" "T"
## [8371] "G" "A" "T" "C" "T" "T" "T" "A" "T" "T" "G" "T" "T" "G" "A" "G" "A" "C"
## [8389] "A" "A" "C" "A" "A" "A" "A" "G" "A" "G" "A" "T" "T" "A" "A" "T" "A" "T"
## [8407] "T" "C" "A" "G" "A" "T" "G" "G" "A" "A" "A" "T" "G" "A" "T" "T" "C" "T"
## [8425] "T" "C" "T" "C" "T" "A" "T" "T" "T" "T" "A" "G" "T" "A" "T" "A" "G" "T"
## [8443] "A" "A" "C" "T" "A" "A" "A" "C" "T" "G" "G" "A" "A" "G" "A" "A" "A" "A"
## [8461] "T" "T" "T" "C" "T" "G" "T" "A" "T" "T" "G" "T" "C" "G" "T" "C" "A" "T"
## [8479] "G" "G" "G" "G" "A" "A" "T" "T" "A" "A" "A" "T" "T" "C" "C" "C" "C" "T"
## [8497] "T" "T" "A" "A" "A" "T" "G" "A" "G" "T" "A" "C" "A" "G" "T" "T" "T" "A"
## [8515] "T" "T" "T" "C" "T" "T" "A" "T" "C" "C" "T" "T" "C" "T" "G" "T" "T" "G"
## [8533] "A" "C" "T" "T" "A" "A" "C" "C" "T" "A" "A" "A" "C" "A" "T" "A" "A" "G"
## [8551] "G" "A" "G" "G" "T" "T" "T" "T" "A" "T" "A" "C" "A" "T" "T" "A" "A" "A"
## [8569] "C" "G" "T" "A" "C" "G" "T" "A" "C" "T" "G" "T" "A" "T" "T" "G" "G" "T"
## [8587] "A" "G" "A" "T" "A" "A" "A" "C" "A" "A" "G" "C" "G" "C" "A" "C" "C" "A"

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## [8605] "A" "A" "C" "G" "G" "T" "T" "C" "T" "A" "T" "T" "A" "A" "T" "G" "T" "A"
## [8623] "G" "G" "T" "T" "A" "A" "T" "T" "T" "T" "T" "A" "C" "G" "A" "A" "G" "T"
## [8641] "C" "T" "A" "C" "T" "A" "C" "T" "G" "C" "G" "T" "A" "A" "G" "T" "G" "T"
## [8659] "A" "A" "T" "C" "A" "T" "T" "G" "T" "T" "T" "C" "C" "G" "A" "C" "A" "G"
## [8677] "G" "T" "G" "G" "T" "A" "C" "G" "C" "T" "T" "C" "A" "C" "A" "G" "G" "G"
## [8695] "T" "A" "C" "T" "C" "G" "A" "A" "T" "A" "T" "T" "T" "C" "T" "A" "G" "T"
## [8713] "C" "G" "T" "A" "A" "G" "G" "T" "T" "C" "T" "T" "A" "C" "A" "A" "G" "A"
## [8731] "C" "A" "A" "T" "A" "G" "A" "A" "A" "T" "A" "T" "C" "G" "G" "T" "G" "C"
## [8749] "C" "T" "T" "G" "G" "A" "G" "G" "T" "T" "C" "T" "C" "G" "A" "T" "C" "G"
## [8767] "A" "A" "A" "A" "C" "A" "A" "C" "A" "T" "A" "T" "T" "T" "G" "G" "G" "T"
## [8785] "G" "T" "T" "T" "A" "C" "A" "T" "T" "C" "A" "C" "T" "T" "T" "T" "T" "T"
## [8803] "G" "G" "G" "A" "G" "A" "A" "A" "T" "C" "T" "C" "A" "G" "T" "A" "A" "A"
## [8821] "A" "G" "A" "A" "A" "A" "C" "A" "T" "T" "G" "T" "A" "A" "A" "A" "A" "T"
## [8839] "C" "A" "G" "A" "A" "T" "C" "C" "C" "A" "G" "C" "A" "T" "G" "T" "A" "T"
## [8857] "A" "G" "T" "G" "A" "T" "T" "A" "T" "T" "A" "C" "T" "C" "T" "A" "G" "G"
## [8875] "G" "T" "A" "A" "A" "T" "A" "A" "T" "C" "G" "A" "C" "A" "T" "A" "C" "A"
## [8893] "T" "G" "T" "C" "A" "A" "C" "G" "T" "G" "T" "T" "A" "G" "T" "G" "G" "T"
## [8911] "T" "A" "G" "T" "T" "T" "C" "A" "A" "C" "T" "T" "A" "G" "A" "C" "G" "T"
## [8929] "A" "G" "T" "C" "T" "C" "T" "G" "T" "T" "T" "C" "A" "G" "T" "A" "A" "T"
## [8947] "T" "C" "T" "A" "G" "A" "C" "T" "T" "A" "G" "C" "T" "G" "T" "T" "C" "G"
## [8965] "T" "C" "G" "C" "A" "T" "G" "G" "G" "C" "A" "T" "C" "C" "G" "T" "T" "G"
## [8983] "G" "T" "G" "A" "C" "A" "G" "A" "A" "T" "T" "T" "T" "G" "T" "C" "G" "A"
## [9001] "C" "A" "T" "G" "G" "A" "C" "C" "A" "C" "G" "T" "T" "G" "A" "G" "G" "A"
## [9019] "A" "A" "T" "A" "G" "T" "C" "T" "T" "G" "G" "T" "C" "G" "T" "G" "G" "T"
## [9037] "T" "T" "T" "A" "C" "A" "T" "A" "T" "T" "G" "A" "G" "A" "G" "T" "A" "T"
## [9055] "A" "A" "T" "A" "T" "C" "C" "C" "A" "T" "G" "T" "C" "G" "A" "T" "T" "A"
## [9073] "C" "A" "A" "T" "T" "A" "C" "A" "C" "A" "A" "A" "T" "T" "T" "A" "T" "A"
## [9091] "A" "C" "T" "G" "T" "G" "T" "C" "A" "A" "C" "T" "C" "A" "T" "A" "T" "A"
## [9109] "A" "A" "A" "C" "G" "C" "T" "G" "T" "A" "A" "G" "T" "A" "G" "T" "A" "A"
## [9127] "T" "A" "C" "G" "G" "A" "A" "A" "T" "C" "C" "A" "T" "T" "A" "C" "A" "A"
## [9145] "C" "G" "T" "G" "A" "T" "A" "G" "T" "G" "G" "T" "A" "T" "T" "A" "A" "A"
## [9163] "A" "C" "T" "T" "C" "C" "A" "G" "T" "G" "T" "G" "A" "A" "A" "A" "G" "A"
## [9181] "T" "T" "A" "T" "C" "G" "T" "A" "A" "G" "A" "A" "A" "C" "G" "T" "A" "A"
## [9199] "A" "A" "C" "A" "T" "T" "T" "C" "T" "A" "A" "T" "C" "C" "G" "T" "A" "T"
## [9217] "C" "G" "T" "T" "G" "T" "G" "G" "G" "C" "C" "A" "A" "C" "G" "G" "T" "G"
## [9235] "C" "G" "A" "A" "C" "T" "G" "A" "T" "C" "T" "A" "A" "C" "A" "T" "T" "A"
## [9253] "A" "A" "A" "C" "C" "C" "A" "T" "T" "T" "T" "A" "C" "A" "A" "A" "G" "A"
## [9271] "T" "G" "T" "A" "C" "C" "G" "G" "T" "A" "G" "A" "A" "A" "T" "G" "T" "G"
## [9289] "G" "T" "T" "T" "C" "G" "T" "A" "T" "T" "T" "A" "C" "T" "T" "T" "A" "A"
## [9307] "A" "G" "A" "C" "A" "T" "A" "T" "C" "A" "G" "T" "T" "A" "T" "C" "A" "G"
## [9325] "T" "G" "A" "A" "A" "C" "T" "G" "T" "T" "G" "G" "A" "A" "T" "C" "T" "T"
## [9343] "T" "G" "A" "T" "G" "T" "C" "T" "A" "T" "T" "T" "A" "G" "A" "A" "C" "C"
## [9361] "C" "T" "A" "A" "A" "A" "T" "A" "A" "T" "A" "A" "A" "G" "T" "T" "G" "T"
## [9379] "T" "T" "T" "A" "G" "T" "A" "G" "T" "T" "C" "A" "T" "T" "A" "T" "T" "T"
## [9397] "A" "G" "T" "T" "A" "T" "T" "G" "T" "C" "T" "T" "G" "T" "G" "T" "G" "T"
## [9415] "G" "T" "G" "A" "A" "T" "C" "T" "A" "C" "T" "T" "G" "G" "A" "C" "A" "A"
## [9433] "A" "C" "G" "C" "G" "T" "A" "G" "A" "C" "A" "A" "T" "A" "C" "T" "T" "T"
## [9451] "A" "T" "C" "A" "A" "A" "A" "A" "T" "T" "G" "A" "C" "A" "T" "G" "A" "C"
## [9469] "A" "G" "G" "T" "A" "T" "C" "C" "T" "T" "A" "T" "T" "T" "T" "A" "G" "A"
## [9487] "A" "G" "A" "T" "T" "A" "A" "G" "T" "T" "T" "T" "C" "C" "A" "C" "T" "A"
## [9505] "A" "G" "G" "A" "A" "T" "T" "T" "T" "G" "C" "A" "A" "A" "T" "C" "G" "A"
## [9523] "T" "C" "A" "G" "G" "T" "T" "A" "G" "T" "C" "A" "T" "C" "T" "A" "C" "A"
## [9541] "T" "T" "T" "G" "G" "T" "G" "G" "A" "T" "T" "G" "A" "C" "T" "G" "A" "T"
## [9559] "A" "C" "T" "G" "A" "T" "T" "T" "T" "A" "G" "A" "G" "G" "T" "A" "T" "T"

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## [9577] "T" "G" "C" "T" "A" "T" "A" "C" "A" "A" "G" "C" "T" "T" "C" "C" "G" "T"
## [9595] "A" "T" "C" "G" "G" "A" "A" "G" "A" "T" "T" "A" "A" "A" "T" "A" "T" "G"
## [9613] "G" "C" "A" "A" "G" "T" "T" "A" "C" "T" "T" "A" "A" "G" "T" "A" "G" "G"
## [9631] "T" "A" "T" "C" "G" "A" "T" "T" "A" "A" "G" "A" "T" "T" "C" "T" "T" "T"
## [9649] "A" "G" "T" "T" "A" "A" "A" "G" "G" "T" "A" "A" "A" "C" "T" "G" "A" "G"
## [9667] "G" "A" "C" "C" "C" "A" "A" "A" "T" "T" "T" "A" "A" "G" "A" "A" "C" "A"
## [9685] "T" "T" "T" "A" "A" "A" "G" "A" "T" "G" "A" "G" "A" "C" "T" "C" "A" "T"
## [9703] "T" "T" "C" "A" "T" "T" "C" "A" "A" "A" "G" "T" "C" "C" "A" "T" "T" "A"
## [9721] "A" "C" "A" "A" "C" "C" "T" "G" "T" "T" "G" "T" "G" "G" "T" "A" "G" "T"
## [9739] "T" "G" "A" "A" "A" "G" "A" "A" "T" "A" "T" "T" "A" "T" "T" "A" "A" "C"
## [9757] "T" "T" "G" "A" "C" "A" "C" "A" "A" "A" "A" "A" "T" "G" "C" "C" "G" "A"
## [9775] "A" "G" "A" "G" "G" "T" "T" "A" "A" "T" "T" "A" "C" "A" "C" "T" "G" "A"
## [9793] "G" "G" "T" "A" "A" "T" "T" "C" "T" "G" "A" "T" "C" "G" "A" "A" "C" "A"
## [9811] "A" "A" "C" "C" "C" "T" "G" "G" "A" "T" "G" "T" "C" "T" "A" "C" "C" "A"
## [9829] "A" "C" "A" "T" "T" "T" "G" "G" "A" "A" "A" "T" "T" "G" "T" "G" "A" "T"
## [9847] "G" "G" "A" "A" "G" "A" "C" "A" "T" "T" "A" "T" "T" "C" "T" "T" "G" "T"
## [9865] "G" "G" "T" "A" "A" "T" "G" "C" "C" "C" "G" "T" "A" "A" "A" "G" "A" "T"
## [9883] "T" "T" "A" "T" "T" "C" "A" "G" "A" "T" "G" "A" "A" "C" "T" "G" "G" "T"
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## [12295] "A" "G" "T" "A" "T" "T" "T" "G" "G" "T" "T" "T" "C" "G" "T" "G" "A" "G"
## [12313] "T" "G" "T" "C" "A" "C" "A" "G" "T" "T" "G" "T" "T" "A" "A" "A" "G" "T"
## [12331] "C" "G" "T" "C" "C" "T" "G" "T" "T" "G" "C" "G" "G" "C" "T" "G" "T" "T"
## [12349] "C" "A" "A" "G" "G" "C" "T" "C" "C" "T" "T" "G" "T" "A" "C" "A" "G" "A"
## [12367] "C" "C" "T" "G" "G" "A" "T" "A" "T" "C" "A" "A" "A" "A" "G" "T" "A" "T"
## [12385] "T" "C" "A" "G" "A" "T" "G" "T" "G" "T" "G" "A" "C" "T" "T" "A" "A" "C"
## [12403] "T" "T" "T" "A" "T" "A" "A" "G" "A" "C" "C" "A" "A" "G" "A" "T" "C" "A"
## [12421] "C" "A" "C" "G" "G" "G" "A" "A" "T" "C" "A" "A" "T" "C" "G" "T" "T" "A"
## [12439] "C" "A" "C" "G" "C" "A" "C" "C" "A" "C" "G" "T" "C" "C" "A" "T" "T" "A"
## [12457] "A" "C" "T" "C" "G" "T" "C" "C" "C" "A" "G" "C" "G" "G" "T" "T" "A" "C"
## [12475] "A" "T" "G" "T" "G" "T" "A" "T" "C" "A" "C" "G" "A" "A" "T" "C" "G" "T"

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## [12493] "G" "C" "A" "T" "T" "A" "G" "A" "C" "C" "G" "T" "A" "A" "C" "T" "G" "T"
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## [12529] "C" "A" "C" "C" "G" "G" "T" "A" "A" "C" "T" "T" "T" "A" "A" "A" "G" "T"
## [12547] "A" "G" "T" "T" "T" "C" "T" "G" "T" "T" "G" "A" "T" "A" "T" "A" "G" "A"
## [12565] "C" "G" "A" "C" "A" "G" "C" "A" "G" "A" "G" "T" "C" "C" "G" "T" "T" "A"
## [12583] "C" "G" "T" "A" "A" "A" "T" "G" "T" "C" "A" "T" "G" "T" "T" "T" "T" "C"
## [12601] "T" "G" "T" "A" "T" "G" "A" "C" "A" "A" "G" "A" "T" "T" "A" "C" "A" "A"
## [12619] "C" "T" "T" "A" "A" "G" "T" "G" "A" "A" "A" "C" "T" "T" "A" "A" "A" "T"
## [12637] "A" "G" "T" "T" "T" "T" "G" "T" "G" "A" "G" "A" "T" "G" "T" "G" "C" "T"
## [12655] "C" "G" "T" "G" "C" "A" "C" "G" "T" "C" "C" "A" "T" "A" "T" "T" "A" "A"
## [12673] "G" "A" "T" "G" "A" "T" "G" "T" "A" "A" "A" "T" "A" "G" "A" "T" "A" "T"
## [12691] "C" "C" "G" "T" "T" "T" "A" "T" "A" "A" "A" "A" "T" "T" "A" "C" "G" "G"
## [12709] "A" "A" "G" "A" "G" "T" "G" "T" "A" "T" "C" "A" "C" "G" "T" "A" "G" "T"
## [12727] "T" "G" "T" "C" "G" "C" "C" "G" "T" "A" "C" "T" "C" "T" "C" "G" "T" "T"
## [12745] "C" "G" "A" "C" "A" "T" "A" "T" "G" "T" "G" "A" "T" "A" "C" "G" "C" "T"
## [12763] "C" "G" "T" "C" "T" "T" "C" "C" "C" "A" "T" "C" "A" "T" "C" "T" "C" "T"
## [12781] "C" "G" "A" "T" "C" "C" "G" "G" "T" "T" "A" "T" "C" "G" "T" "T" "T" "T"
## [12799] "A" "C" "T" "G" "A" "G" "A" "A" "T" "G" "G" "T" "C" "A" "T" "G" "G" "T"
## [12817] "C" "C" "A" "C" "C" "A" "G" "G" "G" "A" "C" "C" "T" "C" "A" "C" "A" "T"
## [12835] "C" "T" "T" "A" "T" "G" "A" "A" "A" "A" "C" "G" "T" "A" "T" "G" "G" "T"
## [12853] "T" "G" "G" "A" "A" "A" "A" "C" "T" "A" "T" "T" "A" "A" "A" "C" "G" "T"
## [12871] "T" "G" "T" "A" "A" "C" "G" "A" "T" "C" "T" "T" "T" "T" "G" "A" "G" "T"
## [12889] "A" "G" "A" "C" "T" "C" "T" "A" "T" "A" "A" "C" "T" "C" "A" "C" "A" "A"
## [12907] "C" "C" "C" "A" "T" "A" "T" "T" "C" "G" "G" "T" "C" "A" "T" "T" "A" "A"
## [12925] "G" "A" "T" "T" "G" "T" "A" "T" "C" "A" "C" "G" "A" "G" "A" "A" "C" "A"
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## [12979] "A" "C" "A" "C" "T" "A" "C" "A" "G" "T" "C" "G" "T" "G" "T" "T" "T" "T"
## [12997] "A" "T" "T" "A" "G" "T" "G" "G" "T" "T" "G" "T" "A" "A" "A" "T" "T" "A"
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## [13033] "G" "C" "C" "A" "T" "T" "T" "G" "T" "T" "G" "T" "C" "G" "T" "A" "G" "T"
## [13051] "G" "G" "T" "A" "T" "C" "A" "G" "T" "G" "G" "A" "A" "A" "A" "A" "G" "T"
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## [13159] "G" "G" "T" "T" "G" "A" "A" "G" "G" "G" "T" "A" "C" "T" "T" "T" "C" "T"
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## [13195] "T" "C" "G" "T" "G" "A" "A" "G" "T" "G" "C" "A" "T" "G" "T" "C" "A" "T"
## [13213] "C" "G" "T" "T" "A" "T" "G" "G" "T" "A" "T" "T" "C" "T" "G" "T" "C" "A"
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## [13393] "T" "T" "T" "G" "G" "T" "T" "T" "T" "T" "G" "A" "A" "C" "A" "G" "G" "T"
## [13411] "A" "A" "T" "C" "G" "T" "G" "T" "G" "T" "T" "A" "C" "C" "T" "T" "T" "T"
## [13429] "G" "A" "T" "T" "A" "C" "C" "C" "A" "C" "C" "A" "A" "A" "T" "A" "C" "A"
## [13447] "C" "T" "A" "A" "A" "T" "G" "T" "T" "A" "T" "T" "A" "T" "C" "G" "A" "G"

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## [13465] "T" "A" "T" "G" "G" "A" "G" "G" "A" "T" "T" "C" "A" "T" "T" "T" "C" "A"
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## [13519] "G" "T" "T" "T" "G" "T" "A" "T" "G" "C" "C" "T" "A" "A" "T" "T" "G" "T"
## [13537] "C" "T" "G" "T" "T" "C" "T" "G" "A" "T" "T" "A" "A" "A" "T" "A" "C" "A"
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## [13645] "G" "T" "T" "T" "C" "T" "T" "G" "T" "G" "T" "T" "C" "G" "G" "G" "G" "T"
## [13663] "T" "G" "T" "C" "G" "G" "A" "C" "A" "T" "T" "C" "T" "G" "A" "C" "A" "T"
## [13681] "A" "C" "G" "C" "C" "A" "C" "A" "C" "A" "T" "G" "T" "A" "T" "C" "G" "G"
## [13699] "A" "G" "T" "A" "T" "T" "T" "T" "G" "A" "G" "T" "C" "C" "A" "A" "G" "G"
## [13717] "G" "T" "T" "A" "T" "G" "G" "A" "A" "C" "T" "T" "C" "A" "C" "A" "A" "T"
## [13735] "A" "G" "T" "A" "A" "T" "C" "A" "T" "T" "C" "G" "T" "A" "T" "T" "G" "T"
## [13753] "C" "T" "T" "A" "T" "G" "T" "A" "C" "A" "G" "A" "T" "T" "G" "T" "A" "C"
## [13771] "A" "C" "A" "G" "G" "A" "C" "A" "A" "T" "T" "G" "A" "G" "T" "A" "G" "T"
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## [13807] "A" "C" "A" "T" "T" "C" "A" "T" "G" "T" "T" "T" "A" "C" "T" "T" "T" "C"
## [13825] "T" "G" "T" "A" "G" "T" "C" "G" "T" "A" "T" "G" "A" "G" "G" "A" "C" "T"
## [13843] "A" "A" "T" "C" "C" "T" "A" "C" "A" "A" "A" "T" "C" "A" "T" "T" "C" "A"
## [13861] "C" "C" "C" "A" "T" "T" "C" "G" "T" "A" "G" "A" "T" "A" "T" "C" "G" "A"
## [13879] "T" "T" "T" "C" "T" "G" "T" "G" "C" "T" "T" "G" "G" "C" "A" "A" "G" "T"
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## [13915] "C" "A" "A" "A" "A" "A" "T" "G" "C" "T" "A" "T" "A" "G" "T" "A" "G" "A"
## [13933] "T" "G" "T" "T" "T" "T" "G" "T" "C" "G" "G" "C" "C" "G" "G" "G" "G" "A"
## [13951] "T" "C" "C" "T" "A" "A" "G" "A" "A" "C" "T" "A" "C" "C" "T" "A" "G" "A"
## [13969] "C" "C" "C" "A" "T" "T" "C" "C" "T" "T" "C" "C" "A" "T" "G" "T" "G" "T"
## [13987] "A" "T" "T" "A" "G" "T" "A" "G" "T" "G" "G" "G" "A" "C" "A" "A" "A" "T"
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## [14239] "T" "G" "T" "T" "T" "C" "A" "G" "A" "C" "A" "C" "A" "G" "T" "T" "G" "T"
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## [14275] "G" "T" "G" "A" "G" "T" "A" "T" "T" "T" "C" "A" "G" "A" "C" "A" "C" "A"
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## [14311] "A" "A" "T" "A" "G" "C" "C" "G" "T" "T" "A" "A" "A" "A" "C" "A" "A" "T"
## [14329] "G" "G" "T" "A" "G" "T" "C" "A" "T" "C" "T" "A" "T" "T" "T" "T" "C" "A"
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## [14401] "C" "G" "T" "C" "A" "A" "C" "A" "C" "C" "G" "T" "A" "G" "A" "G" "G" "A"
## [14419] "C" "T" "A" "C" "T" "C" "C" "A" "A" "G" "G" "T" "G" "G" "A" "C" "C" "A"

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## [14437] "A" "A" "T" "T" "G" "T" "A" "T" "A" "T" "C" "A" "C" "T" "T" "G" "G" "C"
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## [14617] "G" "G" "G" "T" "A" "T" "T" "C" "C" "A" "C" "T" "C" "C" "C" "A" "A" "A"
## [14635] "A" "G" "A" "T" "G" "T" "A" "G" "T" "G" "A" "T" "A" "T" "T" "T" "G" "T"
## [14653] "C" "A" "A" "A" "A" "A" "T" "T" "G" "T" "A" "C" "A" "A" "C" "A" "C" "G"
## [14671] "G" "T" "T" "G" "G" "T" "G" "G" "T" "A" "T" "C" "T" "T" "A" "A" "A" "C"
## [14689] "G" "A" "A" "C" "A" "A" "G" "G" "T" "T" "A" "A" "T" "G" "A" "T" "G" "T"
## [14707] "C" "A" "T" "C" "G" "A" "G" "G" "A" "G" "A" "T" "C" "A" "C" "C" "G" "C"
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## [14779] "T" "A" "T" "C" "T" "C" "T" "G" "T" "G" "G" "T" "C" "G" "A" "T" "G" "C"
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## [14833] "T" "C" "T" "A" "A" "G" "T" "A" "A" "A" "C" "T" "C" "A" "A" "T" "A" "T"
## [14851] "C" "A" "T" "C" "C" "C" "T" "A" "C" "T" "G" "T" "A" "A" "T" "G" "C" "A"
## [14869] "A" "A" "A" "C" "A" "T" "A" "T" "A" "C" "G" "C" "T" "T" "T" "T" "C" "A"
## [14887] "C" "G" "T" "A" "G" "A" "A" "C" "T" "A" "G" "G" "A" "G" "T" "A" "T" "T"
## [14905] "G" "A" "G" "T" "A" "A" "C" "T" "T" "A" "G" "T" "A" "T" "T" "A" "T" "T"
## [14923] "T" "C" "A" "G" "A" "T" "C" "G" "G" "A" "A" "T" "G" "G" "G" "G" "T" "A"
## [14941] "A" "A" "T" "A" "A" "T" "T" "T" "A" "C" "C" "T" "T" "T" "T" "G" "G" "T"
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## [14977] "A" "A" "C" "T" "G" "C" "T" "A" "C" "T" "G" "A" "A" "C" "C" "A" "A" "T"
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## [16273] "A" "A" "C" "A" "G" "T" "A" "G" "A" "A" "G" "C" "A" "G" "G" "A" "A" "A"
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## [16345] "A" "G" "T" "A" "A" "C" "A" "T" "C" "T" "A" "C" "A" "G" "T" "T" "T" "T"
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## [16633] "C" "T" "A" "G" "A" "T" "A" "C" "A" "C" "C" "G" "T" "T" "G" "C" "C" "G"
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## [16705] "C" "A" "C" "A" "T" "T" "G" "A" "C" "A" "A" "T" "A" "A" "C" "G" "G" "A"
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## [16993] "G" "T" "T" "T" "G" "G" "A" "T" "G" "T" "T" "C" "C" "A" "C" "C" "A" "A"
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## [17029] "A" "T" "G" "G" "T" "C" "A" "A" "G" "G" "T" "A" "G" "T" "G" "A" "G" "A"
## [17047] "A" "T" "C" "C" "C" "T" "T" "A" "G" "A" "T" "C" "G" "G" "G" "T" "A" "A"
## [17065] "A" "G" "T" "T" "T" "A" "G" "G" "A" "C" "A" "T" "T" "T" "A" "G" "C" "C"
## [17083] "T" "A" "T" "T" "G" "T" "C" "A" "C" "G" "T" "T" "C" "A" "T" "G" "T" "T"
## [17101] "T" "G" "G" "A" "T" "G" "G" "A" "G" "G" "G" "A" "A" "A" "C" "A" "A" "C"
## [17119] "A" "C" "A" "A" "C" "A" "T" "C" "A" "T" "T" "C" "G" "A" "T" "T" "G" "C"
## [17137] "G" "T" "A" "A" "C" "A" "G" "T" "A" "G" "T" "C" "A" "C" "G" "T" "T" "C"
## [17155] "G" "T" "C" "A" "A" "A" "C" "A" "C" "A" "T" "C" "A" "T" "G" "G" "C" "C"
## [17173] "G" "T" "C" "G" "T" "G" "T" "T" "C" "T" "G" "T" "A" "G" "A" "C" "A" "G"
## [17191] "C" "A" "T" "C" "A" "C" "G" "T" "T" "G" "T" "C" "C" "T" "G" "A" "T" "T"
## [17209] "C" "G" "A" "G" "T" "A" "A" "T" "A" "A" "G" "A" "C" "A" "T" "T" "A" "A"
## [17227] "A" "C" "T" "G" "T" "C" "G" "T" "C" "T" "T" "A" "A" "C" "C" "G" "G" "G"
## [17245] "A" "A" "T" "T" "T" "C" "G" "A" "C" "A" "A" "T" "G" "T" "T" "A" "T" "T"
## [17263] "C" "T" "C" "C" "G" "G" "T" "A" "C" "G" "A" "T" "T" "T" "A" "A" "T" "C"
## [17281] "C" "A" "C" "T" "T" "A" "A" "C" "A" "G" "G" "T" "A" "T" "G" "A" "T" "T"
## [17299] "A" "A" "A" "G" "T" "G" "A" "T" "T" "C" "A" "A" "C" "T" "T" "G" "T" "T"
## [17317] "A" "A" "A" "A" "T" "G" "A" "T" "A" "G" "A" "C" "G" "T" "A" "G" "A" "T"
## [17335] "G" "T" "T" "G" "G" "A" "C" "A" "A" "C" "C" "T" "A" "A" "A" "G" "G" "G"

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## [17389] "T" "G" "C" "A" "T" "A" "A" "A" "A" "A" "T" "A" "T" "A" "C" "A" "C" "A"
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## [17425] "G" "G" "T" "A" "A" "T" "C" "A" "A" "A" "C" "C" "G" "A" "C" "G" "A" "C"
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## [17461] "A" "G" "T" "T" "C" "C" "C" "T" "T" "G" "T" "G" "T" "T" "G" "G" "T" "A"
## [17479] "G" "A" "G" "A" "A" "C" "G" "T" "A" "A" "C" "A" "A" "C" "T" "A" "T" "T"
## [17497] "A" "C" "A" "A" "C" "A" "A" "C" "T" "C" "A" "C" "G" "T" "A" "G" "T" "A"
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## [17533] "A" "T" "C" "A" "C" "T" "T" "T" "T" "C" "G" "T" "A" "A" "C" "A" "G" "A"
## [17551] "C" "G" "T" "A" "T" "C" "G" "T" "G" "A" "T" "C" "A" "T" "T" "G" "A" "A"
## [17569] "A" "A" "C" "G" "G" "G" "A" "G" "A" "A" "C" "A" "G" "G" "A" "G" "T" "C"
## [17587] "T" "A" "G" "A" "T" "C" "G" "G" "A" "C" "A" "A" "A" "T" "A" "T" "G" "T"
## [17605] "A" "A" "A" "C" "C" "C" "A" "G" "T" "A" "T" "C" "G" "A" "A" "C" "T" "A"
## [17623] "G" "T" "C" "G" "G" "T" "A" "G" "A" "A" "A" "A" "G" "G" "T" "T" "G" "A"
## [17641] "A" "T" "G" "C" "A" "A" "C" "G" "T" "A" "C" "C" "G" "A" "C" "G" "T" "A"
## [17659] "G" "T" "G" "C" "C" "A" "G" "T" "T" "T" "A" "A" "G" "T" "C" "T" "A" "A"
## [17677] "A" "T" "C" "G" "G" "T" "G" "T" "A" "A" "G" "T" "T" "T" "C" "T" "G" "A"
## [17695] "A" "G" "A" "A" "G" "T" "T" "G" "A" "A" "A" "A" "A" "T" "T" "C" "T" "T"
## [17713] "G" "T" "T" "G" "A" "A" "G" "T" "C" "T" "T" "A" "G" "T" "G" "G" "T" "A"
## [17731] "A" "T" "C" "G" "T" "T" "G" "T" "C" "G" "G" "A" "C" "G" "A" "G" "T" "A"
## [17749] "T" "T" "C" "G" "A" "A" "G" "A" "A" "C" "T" "C" "G" "T" "C" "A" "T" "C"
## [17767] "G" "T" "T" "T" "T" "C" "G" "A" "C" "G" "T" "A" "T" "A" "C" "T" "A" "C"
## [17785] "C" "T" "T" "C" "C" "C" "T" "T" "G" "A" "T" "T" "T" "G" "A" "G" "A" "C"
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## [17839] "A" "A" "A" "G" "A" "A" "G" "T" "G" "T" "T" "T" "C" "G" "A" "A" "C" "A"
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## [17893] "T" "T" "T" "C" "A" "T" "C" "A" "C" "T" "T" "T" "G" "G" "T" "A" "A" "A"
## [17911] "A" "A" "A" "G" "T" "T" "T" "C" "C" "G" "A" "A" "G" "T" "C" "A" "T" "C"
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## [17965] "G" "T" "G" "T" "A" "A" "C" "T" "C" "G" "G" "G" "T" "G" "T" "T" "A" "A"
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## [18001] "A" "C" "T" "C" "A" "A" "C" "A" "A" "C" "G" "T" "T" "T" "T" "G" "A" "C"
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## [18055] "A" "A" "A" "A" "T" "C" "T" "G" "A" "C" "A" "T" "G" "T" "C" "A" "C" "C"
## [18073] "G" "A" "T" "G" "A" "A" "A" "C" "T" "A" "T" "G" "T" "T" "C" "C" "A" "A"
## [18091] "A" "C" "G" "G" "T" "G" "G" "T" "T" "G" "T" "G" "G" "G" "T" "T" "G" "T"
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## [18163] "C" "A" "C" "T" "T" "A" "A" "G" "T" "A" "T" "A" "T" "A" "G" "A" "T" "T"
## [18181] "T" "G" "A" "G" "G" "A" "C" "A" "C" "A" "T" "C" "T" "T" "T" "G" "A" "T"
## [18199] "T" "C" "A" "T" "T" "A" "G" "T" "A" "T" "T" "T" "G" "T" "G" "G" "T" "T"
## [18217] "C" "T" "C" "A" "G" "T" "C" "A" "G" "A" "T" "T" "T" "C" "A" "T" "C" "G"
## [18235] "C" "C" "A" "A" "C" "T" "C" "A" "T" "T" "T" "G" "T" "T" "T" "T" "C" "T"
## [18253] "C" "C" "G" "G" "T" "T" "T" "C" "A" "T" "T" "G" "T" "T" "C" "A" "T" "G"
## [18271] "T" "T" "T" "T" "T" "A" "T" "C" "G" "G" "A" "T" "T" "C" "T" "T" "T" "G"
## [18289] "T" "T" "A" "T" "T" "T" "G" "A" "T" "C" "G" "T" "A" "A" "T" "A" "T" "G"
## [18307] "T" "G" "A" "C" "T" "T" "C" "A" "C" "A" "T" "A" "A" "T" "G" "G" "T" "C"

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## [18325] "A" "A" "T" "A" "C" "T" "T" "C" "T" "T" "T" "T" "A" "T" "C" "C" "C" "G"
## [18343] "T" "T" "A" "T" "G" "A" "G" "T" "T" "G" "T" "G" "T" "G" "T" "A" "T" "T"
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## [18397] "G" "A" "T" "G" "T" "G" "G" "A" "C" "T" "C" "A" "T" "C" "A" "A" "T" "C"
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## [18433] "C" "T" "C" "G" "G" "G" "T" "G" "T" "A" "C" "C" "T" "T" "T" "A" "C" "C"
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## [18469] "G" "T" "A" "T" "T" "A" "T" "T" "T" "G" "A" "A" "A" "T" "A" "T" "T" "T"
## [18487] "G" "C" "T" "C" "A" "C" "A" "G" "T" "T" "C" "T" "G" "T" "A" "A" "G" "T"
## [18505] "A" "T" "T" "C" "A" "C" "A" "G" "G" "T" "G" "T" "G" "A" "G" "A" "G" "G"
## [18523] "A" "T" "C" "G" "T" "G" "G" "T" "A" "G" "T" "A" "G" "T" "A" "T" "G" "T"
## [18541] "G" "T" "C" "A" "A" "G" "A" "A" "C" "G" "A" "C" "A" "G" "T" "A" "T" "T"
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## [18577] "G" "A" "C" "T" "A" "C" "G" "T" "A" "T" "G" "T" "A" "T" "T" "G" "T" "G"
## [18595] "T" "C" "A" "G" "A" "A" "A" "A" "T" "C" "G" "A" "A" "T" "T" "T" "T" "G"
## [18613] "G" "T" "C" "T" "G" "T" "T" "T" "G" "A" "T" "C" "A" "T" "A" "G" "T" "T"
## [18631] "G" "G" "T" "A" "T" "A" "G" "G" "T" "T" "G" "G" "T" "A" "C" "A" "G" "T"
## [18649] "A" "T" "T" "A" "T" "G" "C" "G" "T" "A" "G" "T" "G" "G" "G" "T" "T" "G"
## [18667] "A" "T" "C" "G" "T" "C" "C" "G" "T" "A" "T" "A" "T" "C" "T" "G" "G" "T"
## [18685] "A" "T" "A" "A" "T" "T" "T" "T" "A" "T" "T" "C" "G" "A" "T" "G" "T" "C"
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## [18721] "T" "T" "T" "T" "G" "T" "T" "T" "G" "T" "C" "T" "C" "T" "T" "T" "A" "C"
## [18739] "G" "T" "A" "C" "G" "A" "A" "T" "A" "C" "A" "A" "A" "C" "T" "G" "T" "T"
## [18757] "T" "G" "T" "A" "G" "T" "A" "A" "C" "G" "T" "T" "T" "T" "C" "G" "T" "C"
## [18775] "T" "G" "T" "A" "T" "C" "G" "T" "T" "A" "T" "T" "A" "T" "G" "G" "G" "T"
## [18793] "A" "T" "C" "G" "T" "T" "T" "T" "C" "C" "A" "T" "T" "T" "T" "T" "C" "C"
## [18811] "G" "T" "A" "A" "A" "A" "G" "T" "A" "T" "G" "T" "T" "T" "T" "T" "T" "T"
## [18829] "T" "C" "T" "T" "G" "T" "T" "T" "C" "T" "G" "G" "T" "A" "A" "C" "T" "C"
## [18847] "A" "T" "G" "A" "G" "A" "C" "C" "T" "G" "A" "T" "T" "T" "T" "G" "A" "T"
## [18865] "T" "T" "T" "C" "A" "C" "T" "T" "C" "A" "G" "T" "T" "T" "T" "A" "A" "C"
## [18883] "A" "C" "T" "C" "A" "T" "T" "G" "T" "T" "G" "G" "T" "C" "A" "C" "C" "A"
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## [18937] "T" "T" "C" "A" "T" "T" "G" "T" "G" "G" "A" "C" "T" "C" "G" "T" "A" "A"
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## [18991] "T" "A" "T" "T" "T" "C" "G" "T" "G" "A" "T" "G" "G" "G" "T" "T" "A" "T"
## [19009] "A" "C" "C" "A" "T" "G" "C" "A" "G" "G" "T" "A" "A" "G" "T" "A" "T" "G"
## [19027] "G" "T" "A" "A" "A" "A" "C" "G" "T" "C" "A" "T" "T" "A" "A" "G" "A" "A"
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## [19261] "G" "G" "C" "A" "T" "G" "G" "T" "C" "G" "A" "C" "G" "A" "A" "C" "A" "C"
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## [19297] "T" "T" "C" "C" "A" "G" "G" "T" "A" "T" "T" "T" "T" "C" "A" "A" "T" "G"
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## [19351] "T" "A" "A" "G" "G" "T" "A" "T" "A" "C" "C" "A" "C" "G" "T" "A" "C" "A"
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## [19387] "G" "T" "A" "T" "T" "A" "G" "A" "T" "A" "C" "A" "A" "T" "T" "T" "T" "G"
## [19405] "G" "T" "T" "G" "T" "G" "A" "T" "G" "G" "T" "G" "T" "A" "C" "T" "T" "G"
## [19423] "G" "T" "A" "A" "T" "T" "C" "C" "T" "T" "A" "C" "T" "T" "G" "G" "G" "A"
## [19441] "A" "T" "T" "A" "T" "C" "A" "C" "T" "T" "T" "A" "A" "C" "C" "C" "G" "G"
## [19459] "A" "G" "T" "A" "T" "C" "G" "T" "G" "T" "A" "A" "C" "C" "A" "T" "T" "T"
## [19477] "G" "T" "G" "G" "T" "C" "T" "A" "C" "C" "A" "C" "T" "T" "G" "G" "T" "A"
## [19495] "A" "C" "A" "T" "T" "G" "T" "T" "C" "G" "A" "T" "T" "G" "T" "G" "A" "C"
## [19513] "T" "T" "T" "T" "T" "C" "A" "G" "A" "C" "A" "G" "G" "A" "C" "C" "A" "A"
## [19531] "C" "T" "T" "A" "C" "G" "C" "T" "T" "G" "T" "T" "T" "G" "A" "A" "T" "A"
## [19549] "T" "G" "A" "A" "T" "C" "C" "A" "C" "A" "G" "A" "A" "T" "C" "C" "T" "A"
## [19567] "A" "C" "C" "G" "A" "C" "A" "T" "A" "G" "T" "T" "G" "G" "A" "A" "T" "T"
## [19585] "C" "G" "A" "A" "T" "T" "C" "A" "T" "G" "T" "G" "T" "T" "A" "A" "A" "A"
## [19603] "C" "G" "T" "A" "T" "C" "T" "T" "A" "C" "A" "G" "G" "T" "T" "A" "T" "T"
## [19621] "G" "G" "G" "A" "C" "T" "C" "A" "A" "C" "T" "T" "G" "T" "A" "A" "T" "G"
## [19639] "G" "T" "C" "G" "G" "A" "C" "A" "T" "G" "G" "T" "T" "C" "T" "T" "T" "A"
## [19657] "A" "T" "A" "C" "T" "A" "A" "T" "C" "T" "G" "A" "A" "T" "G" "C" "T" "T"
## [19675] "A" "C" "T" "C" "A" "T" "T" "T" "A" "G" "A" "A" "G" "T" "A" "T" "T" "A"
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## [19729] "C" "A" "G" "A" "A" "C" "C" "T" "G" "T" "C" "A" "T" "T" "T" "G" "A" "T"
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## [19783] "G" "T" "G" "T" "T" "C" "A" "A" "T" "G" "A" "A" "C" "A" "T" "G" "G" "T"
## [19801] "A" "T" "G" "T" "T" "G" "G" "G" "A" "G" "T" "T" "G" "A" "A" "A" "T" "G"
## [19819] "G" "T" "C" "T" "A" "C" "C" "C" "T" "T" "A" "C" "G" "G" "T" "A" "A" "A"
## [19837] "A" "A" "G" "A" "T" "T" "T" "T" "G" "G" "T" "G" "A" "G" "A" "C" "G" "T"
## [19855] "T" "T" "T" "G" "T" "C" "G" "A" "C" "T" "C" "C" "A" "C" "T" "A" "T" "C"
## [19873] "T" "C" "C" "A" "A" "A" "C" "A" "C" "C" "A" "C" "C" "A" "A" "C" "C" "A"
## [19891] "T" "T" "T" "C" "T" "T" "G" "T" "A" "G" "T" "C" "T" "T" "G" "G" "A" "C"
## [19909] "T" "C" "A" "A" "T" "G" "A" "C" "T" "T" "C" "A" "G" "T" "A" "A" "C" "T"
## [19927] "C" "T" "C" "G" "G" "A" "A" "A" "C" "G" "C" "T" "C" "T" "A" "C" "T" "G"
## [19945] "T" "T" "G" "T" "T" "C" "G" "T" "C" "G" "A" "A" "G" "A" "G" "A" "C" "A"
## [19963] "T" "C" "G" "A" "T" "C" "A" "A" "C" "A" "T" "A" "G" "G" "T" "A" "A" "C"
## [19981] "G" "A" "G" "G" "T" "G" "A" "T" "T" "T" "T" "A" "T" "G" "A" "A" "C" "A"
## [19999] "T" "G" "A" "A" "T" "A" "A" "T" "A" "T" "T" "T" "C" "T" "C" "G" "A" "T"
## [20017] "T" "C" "A" "T" "A" "G" "A" "T" "A" "A" "T" "A" "T" "A" "A" "C" "G" "C"
## [20035] "A" "T" "T" "C" "T" "C" "C" "A" "T" "T" "A" "T" "C" "G" "T" "G" "T" "A"
## [20053] "G" "T" "G" "A" "T" "G" "C" "G" "T" "T" "G" "A" "A" "A" "T" "C" "T" "A"
## [20071] "T" "G" "T" "A" "A" "A" "G" "A" "A" "A" "T" "A" "A" "A" "T" "T" "G" "T"
## [20089] "T" "T" "T" "T" "C" "C" "A" "C" "G" "T" "G" "T" "C" "G" "C" "G" "T" "C"
## [20107] "G" "A" "A" "G" "A" "A" "G" "T" "T" "T" "T" "C" "A" "T" "G" "A" "T" "T"
## [20125] "T" "C" "C" "T" "T" "T" "G" "T" "G" "G" "T" "A" "A" "T" "T" "T" "C" "T"
## [20143] "G" "A" "T" "G" "T" "G" "C" "A" "G" "A" "G" "A" "A" "A" "T" "C" "C" "A"
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## [20197] "A" "T" "G" "T" "T" "T" "A" "C" "T" "A" "T" "A" "T" "T" "C" "G" "T" "T"
## [20215] "A" "A" "C" "A" "A" "T" "A" "G" "G" "T" "C" "T" "T" "T" "C" "C" "A" "T"
## [20233] "G" "A" "T" "T" "T" "C" "C" "A" "C" "A" "C" "T" "T" "G" "T" "A" "T" "T"
## [20251] "G" "G" "T" "A" "G" "G" "T" "G" "A" "C" "T" "T" "A" "T" "A" "C" "A" "C"

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## [20269] "G" "A" "T" "T" "T" "T" "T" "T" "C" "T" "T" "T" "G" "T" "A" "G" "T" "A"
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## [20359] "T" "T" "G" "T" "C" "T" "C" "A" "T" "G" "T" "C" "A" "C" "T" "T" "A" "C"
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## [20521] "G" "T" "G" "G" "T" "T" "A" "T" "C" "C" "A" "A" "C" "T" "T" "A" "A" "T"
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## [20665] "T" "A" "G" "A" "A" "A" "G" "T" "G" "T" "T" "C" "A" "C" "G" "G" "C" "A"
## [20683] "C" "G" "G" "A" "T" "G" "T" "C" "A" "T" "G" "A" "G" "T" "C" "T" "T" "A"
## [20701] "G" "T" "T" "T" "T" "C" "A" "A" "C" "A" "A" "T" "G" "G" "T" "G" "A" "G"
## [20719] "A" "T" "T" "G" "T" "C" "T" "T" "G" "G" "A" "A" "G" "T" "T" "C" "C" "A"
## [20737] "T" "C" "C" "A" "C" "A" "A" "T" "C" "C" "T" "T" "T" "A" "A" "C" "T" "T"
## [20755] "A" "T" "T" "A" "T" "C" "T" "C" "G" "G" "T" "A" "G" "G" "T" "A" "C" "T"
## [20773] "C" "G" "T" "G" "T" "A" "T" "T" "G" "C" "A" "C" "A" "C" "A" "G" "T" "C"
## [20791] "C" "C" "G" "C" "A" "T" "T" "T" "G" "A" "A" "A" "G" "T" "A" "T" "T" "C"
## [20809] "G" "T" "T" "G" "T" "C" "T" "T" "G" "G" "A" "A" "G" "A" "T" "C" "A" "T"
## [20827] "G" "T" "A" "A" "C" "C" "A" "T" "A" "G" "T" "A" "T" "T" "G" "T" "T" "A"
## [20845] "T" "A" "C" "C" "A" "T" "G" "A" "C" "C" "G" "A" "A" "T" "G" "G" "T" "C"
## [20863] "T" "T" "C" "G" "T" "A" "G" "A" "A" "A" "T" "T" "T" "T" "T" "A" "A" "C"
## [20881] "A" "T" "G" "T" "A" "A" "G" "T" "C" "G" "T" "C" "G" "G" "T" "T" "T" "T"
## [20899] "G" "T" "G" "T" "T" "C" "G" "A" "C" "T" "A" "C" "A" "A" "C" "G" "T" "T"
## [20917] "T" "C" "A" "G" "T" "C" "A" "C" "A" "T" "G" "A" "G" "A" "T" "A" "T" "T"
## [20935] "C" "A" "A" "A" "A" "C" "T" "A" "C" "C" "A" "C" "A" "C" "A" "T" "T" "G"
## [20953] "T" "C" "T" "A" "C" "A" "A" "T" "G" "G" "T" "T" "G" "A" "C" "G" "T" "G"
## [20971] "A" "T" "T" "T" "T" "T" "G" "A" "G" "A" "T" "C" "C" "A" "T" "T" "C" "T"
## [20989] "T" "T" "A" "C" "G" "T" "T" "T" "T" "T" "C" "A" "G" "T" "G" "G" "T" "A"
## [21007] "A" "T" "C" "A" "A" "C" "A" "C" "G" "C" "A" "T" "T" "A" "T" "A" "G" "C"
## [21025] "A" "C" "G" "G" "T" "C" "C" "G" "T" "T" "T" "G" "G" "T" "C" "C" "G" "T"
## [21043] "G" "C" "T" "G" "T" "T" "T" "T" "G" "G" "G" "T" "G" "A" "A" "G" "A" "G"
## [21061] "A" "A" "C" "A" "A" "T" "A" "C" "T" "G" "A" "C" "G" "T" "C" "G" "T" "T"
## [21079] "A" "G" "T" "T" "A" "C" "C" "C" "G" "T" "T" "C" "G" "A" "A" "A" "C" "A"
## [21097] "G" "T" "A" "A" "T" "C" "A" "T" "A" "T" "T" "G" "A" "T" "G" "G" "T" "G"
## [21115] "G" "T" "G" "C" "G" "A" "C" "C" "G" "A" "T" "T" "T" "G" "G" "T" "A" "C"
## [21133] "A" "C" "A" "G" "T" "T" "T" "T" "A" "G" "T" "C" "G" "T" "A" "C" "A" "A"
## [21151] "A" "C" "A" "A" "T" "C" "G" "T" "T" "T" "T" "G" "T" "T" "C" "A" "T" "A"
## [21169] "G" "A" "C" "A" "T" "C" "T" "A" "C" "G" "A" "T" "A" "C" "A" "G" "T" "G"
## [21187] "C" "T" "C" "A" "C" "T" "G" "T" "G" "G" "T" "G" "G" "T" "A" "G" "T" "T"
## [21205] "A" "T" "C" "G" "G" "A" "A" "C" "A" "T" "A" "G" "G" "A" "T" "A" "C" "T"
## [21223] "A" "A" "A" "G" "T" "G" "A" "A" "C" "T" "T" "T" "T" "C" "A" "G" "T" "C"

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## [21241] "A" "T" "A" "C" "A" "A" "A" "T" "C" "T" "G" "T" "A" "C" "T" "G" "T" "A"
## [21259] "C" "T" "T" "G" "T" "C" "C" "A" "C" "A" "A" "T" "A" "A" "T" "T" "T" "A"
## [21277] "T" "C" "T" "T" "T" "T" "A" "T" "C" "G" "T" "C" "G" "T" "T" "G" "T" "T"
## [21295] "T" "T" "T" "C" "C" "T" "T" "G" "T" "G" "T" "T" "C" "A" "C" "A" "T" "T"
## [21313] "G" "A" "A" "A" "T" "T" "A" "A" "T" "T" "G" "A" "C" "G" "A" "A" "G" "T"
## [21331] "T" "G" "G" "T" "T" "A" "A" "T" "A" "A" "T" "T" "G" "T" "T" "A" "A" "A"
## [21349] "A" "T" "G" "G" "T" "G" "G" "G" "A" "A" "T" "T" "C" "A" "C" "G" "A" "T"
## [21367] "A" "G" "A" "A" "A" "C" "A" "A" "C" "A" "A" "T" "G" "T" "T" "G" "T" "A"
## [21385] "A" "T" "T" "G" "T" "T" "G" "A" "A" "C" "A" "G" "A" "T" "C" "A" "T" "C"
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## [21547] "C" "T" "G" "C" "G" "C" "G" "T" "G" "A" "T" "G" "T" "C" "A" "G" "T" "T"
## [21565] "A" "T" "G" "T" "T" "C" "G" "T" "G" "G" "T" "T" "C" "C" "A" "G" "T" "G"
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## [21601] "G" "A" "A" "A" "C" "A" "A" "T" "A" "T" "C" "C" "A" "C" "T" "C" "G" "T"
## [21619] "A" "T" "A" "T" "C" "A" "A" "T" "A" "A" "T" "G" "T" "T" "G" "A" "T" "A"
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## [21691] "G" "A" "A" "A" "T" "C" "A" "A" "A" "G" "A" "T" "G" "T" "A" "G" "A" "C"
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## [21727] "C" "T" "C" "G" "A" "C" "G" "A" "C" "T" "T" "T" "A" "T" "T" "T" "T" "C"
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## [21763] "T" "C" "C" "T" "G" "T" "G" "T" "A" "A" "G" "A" "A" "A" "C" "G" "T" "T"
## [21781] "C" "A" "A" "G" "T" "C" "G" "A" "A" "G" "A" "C" "G" "T" "C" "A" "A" "C"
## [21799] "G" "T" "T" "G" "A" "T" "C" "A" "C" "A" "A" "A" "A" "C" "T" "C" "A" "A"
## [21817] "A" "A" "A" "G" "G" "T" "A" "A" "C" "C" "A" "T" "G" "C" "A" "A" "T" "T"
## [21835] "T" "T" "C" "A" "A" "C" "T" "A" "C" "T" "T" "T" "T" "G" "C" "A" "T" "A"
## [21853] "A" "T" "T" "G" "C" "A" "T" "T" "C" "G" "T" "A" "G" "T" "T" "T" "G" "T"
## [21871] "A" "A" "A" "A" "T" "T" "G" "A" "C" "G" "T" "T" "G" "A" "A" "G" "G" "C"
## [21889] "G" "T" "G" "A" "T" "A" "G" "T" "G" "G" "T" "T" "G" "T" "A" "G" "T" "C"
## [21907] "T" "G" "T" "G" "A" "T" "T" "A" "C" "G" "G" "A" "C" "T" "A" "G" "A" "T"
## [21925] "C" "A" "T" "T" "G" "T" "C" "A" "T" "A" "T" "C" "C" "A" "A" "C" "T" "G"
## [21943] "T" "G" "T" "A" "T" "T" "C" "G" "A" "C" "T" "G" "A" "C" "A" "T" "C" "A"
## [21961] "T" "T" "T" "G" "T" "C" "T" "G" "C" "G" "A" "C" "T" "A" "A" "A" "A" "C"
## [21979] "G" "T" "C" "T" "A" "C" "T" "A" "A" "G" "A" "A" "G" "T" "G" "T" "A" "A"
## [21997] "A" "A" "C" "T" "A" "A" "A" "T" "G" "G" "T" "A" "G" "T" "T" "T" "T" "T"
## [22015] "G" "A" "T" "A" "T" "T" "G" "T" "A" "A" "T" "T" "A" "T" "C" "C" "G" "T"
## [22033] "T" "A" "C" "T" "T" "G" "G" "A" "A" "A" "T" "C" "A" "C" "A" "A" "T" "A"
## [22051] "A" "T" "C" "G" "A" "G" "A" "G" "T" "C" "C" "A" "A" "C" "A" "G" "A" "T"
## [22069] "T" "C" "A" "A" "T" "T" "G" "T" "T" "T" "T" "A" "C" "T" "C" "T" "C" "T"
## [22087] "C" "T" "C" "T" "T" "A" "C" "A" "G" "A" "A" "A" "G" "T" "A" "T" "T" "C"
## [22105] "A" "G" "A" "A" "A" "A" "C" "T" "G" "G" "T" "C" "G" "A" "A" "A" "T" "A"
## [22123] "G" "T" "T" "T" "C" "A" "T" "T" "T" "C" "T" "A" "C" "C" "T" "A" "C" "C"
## [22141] "T" "T" "G" "G" "T" "A" "A" "G" "A" "A" "G" "T" "G" "A" "C" "A" "T" "T"
## [22159] "G" "T" "G" "A" "T" "A" "G" "T" "T" "G" "C" "T" "A" "C" "A" "T" "T" "C"
## [22177] "T" "T" "C" "T" "G" "A" "C" "C" "A" "G" "T" "C" "A" "T" "C" "C" "T" "A"
## [22195] "A" "A" "T" "A" "A" "C" "C" "A" "G" "A" "A" "A" "A" "T" "T" "T" "G" "A"

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## [22213] "C" "A" "T" "C" "A" "C" "T" "G" "T" "T" "C" "A" "G" "A" "G" "A" "G" "C"
## [22231] "G" "T" "T" "G" "A" "A" "G" "T" "A" "G" "T" "G" "A" "T" "T" "A" "T" "T"
## [22249] "T" "A" "C" "A" "T" "G" "A" "T" "G" "G" "T" "C" "G" "T" "G" "T" "C" "T"
## [22267] "T" "A" "C" "A" "T" "A" "G" "T" "G" "T" "T" "A" "A" "T" "T" "G" "T" "G"
## [22285] "T" "T" "A" "A" "G" "G" "T" "T" "A" "A" "C" "A" "C" "A" "T" "C" "A" "A"
## [22303] "A" "C" "G" "T" "T" "T" "T" "C" "G" "G" "A" "A" "A" "T" "G" "G" "A" "G"
## [22321] "G" "T" "A" "A" "T" "C" "G" "T" "A" "T" "C" "T" "G" "T" "A" "T" "T" "T"
## [22339] "T" "C" "C" "T" "G" "G" "A" "A" "G" "A" "T" "T" "G" "T" "G" "G" "T" "A"
## [22357] "A" "T" "T" "G" "T" "T" "A" "T" "C" "A" "A" "C" "A" "T" "G" "T" "A" "A"
## [22375] "G" "C" "T" "G" "A" "G" "A" "A" "C" "A" "A" "C" "G" "A" "G" "A" "T" "A"
## [22393] "A" "T" "G" "C" "A" "A" "A" "C" "A" "T" "T" "G" "T" "G" "T" "A" "G" "T"
## [22411] "A" "T" "G" "T" "T" "C" "A" "A" "C" "T" "A" "C" "T" "T" "A" "A" "T" "G"
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## [22447] "G" "T" "A" "T" "T" "G" "A" "A" "A" "A" "G" "G" "T" "A" "T" "G" "T" "A"
## [22465] "T" "T" "A" "T" "T" "T" "T" "A" "C" "T" "A" "C" "G" "T" "T" "T" "C" "T"
## [22483] "T" "C" "T" "A" "C" "A" "T" "G" "T" "A" "A" "G" "A" "T" "T" "G" "G" "T"
## [22501] "A" "T" "C" "G" "A" "C" "T" "T" "T" "A" "G" "C" "C" "C" "C" "G" "G" "T"
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## [22591] "T" "G" "T" "T" "A" "A" "C" "G" "T" "A" "C" "T" "A" "A" "C" "G" "T" "C"
## [22609] "G" "G" "T" "T" "A" "G" "G" "T" "T" "C" "A" "T" "G" "T" "A" "T" "C" "T"
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## [22663] "G" "A" "C" "G" "T" "T" "G" "A" "T" "T" "C" "G" "G" "T" "T" "T" "T" "C"
## [22681] "G" "T" "C" "A" "A" "T" "T" "T" "A" "G" "G" "G" "T" "A" "A" "A" "T" "T"
## [22699] "T" "T" "C" "T" "A" "C" "T" "T" "T" "A" "C" "C" "A" "T" "T" "A" "A" "A"
## [22717] "C" "A" "T" "A" "T" "C" "A" "A" "A" "G" "A" "T" "T" "T" "C" "T" "T" "C"
## [22735] "C" "T" "A" "T" "C" "C" "A" "C" "A" "G" "A" "T" "T" "T" "C" "T" "T" "A"
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## [22771] "G" "T" "G" "A" "T" "G" "T" "T" "C" "C" "A" "T" "A" "T" "C" "T" "T" "G"
## [22789] "G" "T" "C" "A" "T" "G" "T" "C" "A" "T" "C" "C" "A" "A" "C" "G" "T" "T"
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## [22879] "A" "A" "T" "T" "T" "T" "G" "T" "G" "G" "A" "T" "T" "T" "C" "G" "T" "C"
## [22897] "G" "C" "C" "A" "A" "C" "T" "C" "A" "T" "C" "T" "A" "A" "T" "T" "T" "C"
## [22915] "T" "T" "G" "G" "A" "T" "C" "C" "G" "T" "T" "T" "G" "T" "G" "A" "A" "T"
## [22933] "T" "A" "T" "C" "A" "T" "T" "T" "T" "T" "G" "G" "T" "T" "T" "A" "A" "T"
## [22951] "A" "T" "T" "A" "T" "A" "A" "A" "T" "A" "G" "T" "C" "A" "A" "A" "T" "C"
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## [23005] "G" "A" "T" "C" "T" "G" "T" "T" "T" "T" "A" "A" "A" "T" "G" "G" "C" "T"
## [23023] "G" "T" "G" "A" "G" "A" "A" "T" "T" "G" "T" "C" "A" "T" "A" "A" "G" "A"
## [23041] "A" "A" "C" "G" "A" "T" "A" "T" "C" "A" "T" "C" "A" "G" "C" "C" "G" "T"
## [23059] "A" "T" "C" "T" "A" "C" "G" "A" "A" "A" "T" "T" "A" "A" "G" "A" "T" "C"
## [23077] "T" "T" "A" "A" "A" "C" "A" "T" "G" "A" "A" "G" "A" "T" "C" "A" "T" "T"
## [23095] "T" "T" "C" "A" "T" "G" "T" "G" "T" "T" "A" "A" "C" "A" "T" "C" "G" "T"
## [23113] "T" "A" "T" "T" "T" "C" "A" "T" "T" "T" "C" "T" "T" "T" "A" "T" "T" "C"
## [23131] "C" "G" "T" "A" "T" "A" "T" "T" "A" "A" "T" "C" "A" "T" "G" "T" "T" "T"
## [23149] "G" "T" "G" "C" "C" "A" "A" "A" "T" "T" "T" "G" "T" "G" "G" "C" "A" "C"
## [23167] "A" "T" "T" "G" "A" "T" "A" "C" "A" "A" "T" "C" "A" "T" "C" "A" "A" "C"

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## [23185] "A" "T" "G" "A" "T" "T" "G" "T" "T" "G" "A" "A" "A" "C" "A" "A" "T" "T"
## [23203] "C" "T" "T" "T" "T" "C" "C" "G" "A" "A" "T" "C" "G" "T" "A" "T" "T" "A"
## [23221] "A" "T" "C" "G" "A" "T" "A" "T" "C" "A" "T" "A" "G" "G" "G" "T" "T" "C"
## [23239] "C" "C" "T" "G" "T" "G" "A" "T" "A" "A" "T" "T" "G" "T" "C" "G" "T" "C"
## [23257] "G" "A" "T" "T" "T" "G" "G" "T" "A" "C" "T" "C" "A" "T" "C" "G" "T" "T"
## [23275] "C" "C" "C" "A" "A" "A" "A" "G" "T" "T" "T" "G" "G" "A" "T" "T" "A" "T"
## [23293] "G" "A" "G" "A" "T" "C" "T" "A" "T" "T" "A" "A" "G" "T" "A" "A" "T" "C"
## [23311] "C" "A" "A" "A" "G" "A" "A" "T" "T" "A" "T" "C" "A" "T" "T" "C" "T" "G"
## [23329] "A" "T" "C" "T" "T" "A" "A" "C" "A" "G" "A" "T" "G" "T" "A" "T" "T" "C"
## [23347] "G" "T" "C" "G" "G" "T" "A" "A" "T" "C" "T" "A" "G" "A" "C" "A" "C" "A"
## [23365] "C" "C" "G" "G" "T" "T" "G" "G" "A" "G" "A" "A" "G" "A" "C" "A" "T" "T"
## [23383] "A" "A" "A" "A" "A" "T" "T" "T" "G" "A" "T" "A" "A" "T" "A" "A" "A" "C"
## [23401] "G" "A" "C" "C" "A" "A" "A" "T" "T" "C" "A" "T" "A" "T" "T" "A" "C" "A"
## [23419] "G" "A" "G" "G" "A" "T" "G" "T" "T" "G" "A" "A" "G" "C" "C" "A" "T" "C"
## [23437] "A" "A" "A" "A" "G" "T" "G" "T" "A" "A" "T" "G" "T" "G" "A" "G" "T" "T"
## [23455] "C" "T" "T" "G" "C" "A" "G" "A" "A" "A" "G" "A" "C" "A" "T" "A" "C" "C"
## [23473] "A" "T" "C" "C" "T" "A" "A" "A" "A" "G" "G" "T" "G" "A" "T" "G" "A" "A"
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## [23509] "C" "T" "A" "G" "A" "A" "G" "C" "G" "T" "C" "C" "G" "T" "T" "C" "T" "A"
## [23527] "A" "T" "A" "G" "G" "T" "A" "A" "G" "G" "G" "A" "C" "G" "C" "G" "C" "A"
## [23545] "G" "G" "A" "G" "A" "C" "T" "G" "A" "A" "G" "T" "C" "A" "T" "G" "T" "A"
## [23563] "G" "T" "T" "T" "G" "C" "T" "T" "A" "A" "A" "C" "T" "A" "C" "A" "A" "A"
## [23581] "G" "T" "T" "G" "A" "C" "C" "A" "A" "A" "A" "C" "A" "C" "G" "A" "G" "G"
## [23599] "T" "T" "T" "C" "T" "G" "T" "T" "G" "C" "A" "T" "A" "T" "G" "T" "G" "G"
## [23617] "T" "C" "C" "A" "T" "A" "A" "A" "C" "C" "A" "A" "A" "T" "A" "T" "G" "C"
## [23635] "A" "C" "C" "G" "A" "A" "A" "T" "A" "A" "T" "C" "A" "A" "C" "G" "T" "A"
## [23653] "A" "C" "A" "A" "T" "T" "G" "T" "A" "C" "G" "G" "T" "T" "T" "G" "T" "T"
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## [23707] "T" "C" "C" "C" "A" "C" "A" "C" "A" "T" "C" "A" "C" "A" "A" "A" "T" "A"
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## [23797] "A" "T" "A" "T" "T" "G" "G" "T" "C" "A" "A" "T" "T" "G" "A" "C" "C" "A"
## [23815] "A" "A" "T" "T" "T" "A" "G" "T" "A" "G" "T" "C" "G" "T" "T" "T" "A" "A"
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## [23869] "A" "A" "C" "G" "C" "A" "A" "A" "C" "C" "T" "A" "T" "A" "C" "C" "A" "A"
## [23887] "C" "C" "A" "A" "A" "C" "C" "A" "T" "G" "T" "T" "C" "T" "A" "G" "T" "T"
## [23905] "A" "A" "C" "C" "A" "A" "C" "G" "A" "G" "A" "C" "A" "C" "T" "T" "T" "A"
## [23923] "T" "T" "C" "T" "T" "A" "A" "C" "A" "G" "A" "A" "A" "G" "A" "A" "T" "A"
## [23941] "T" "T" "A" "T" "T" "A" "A" "C" "A" "G" "G" "T" "T" "G" "A" "A" "T" "C"
## [23959] "C" "C" "A" "G" "T" "T" "A" "A" "A" "G" "A" "C" "A" "T" "G" "T" "T" "T"
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## [24103] "T" "G" "T" "T" "T" "C" "A" "A" "A" "G" "A" "A" "A" "T" "C" "T" "T" "C"
## [24121] "A" "A" "T" "A" "T" "A" "C" "A" "A" "A" "T" "A" "T" "C" "A" "C" "T" "G"
## [24139] "G" "T" "G" "T" "G" "A" "C" "C" "A" "T" "T" "A" "A" "T" "G" "G" "T" "C"

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## [24157] "A" "C" "A" "T" "G" "A" "G" "T" "G" "A" "T" "C" "G" "T" "G" "T" "T" "C"
## [24175] "A" "T" "T" "T" "A" "C" "A" "T" "G" "G" "T" "A" "C" "G" "A" "A" "T" "T"
## [24193] "C" "A" "A" "G" "T" "A" "T" "G" "A" "C" "T" "C" "G" "T" "C" "C" "A" "C"
## [24211] "C" "A" "C" "G" "A" "C" "T" "G" "T" "A" "G" "T" "A" "T" "T" "G" "T" "T"
## [24229] "T" "T" "C" "C" "A" "C" "T" "G" "A" "G" "G" "A" "C" "A" "A" "C" "A" "T"
## [24247] "G" "A" "T" "C" "T" "A" "T" "A" "A" "A" "A" "C" "A" "T" "C" "G" "A" "A"
## [24265] "C" "A" "A" "A" "T" "G" "G" "T" "G" "T" "G" "C" "A" "T" "G" "T" "T" "C"
## [24283] "C" "A" "T" "A" "G" "A" "C" "T" "T" "G" "T" "G" "G" "A" "A" "A" "G" "A"
## [24301] "A" "T" "T" "T" "A" "A" "C" "A" "A" "G" "T" "A" "T" "T" "C" "T" "T" "T"
## [24319] "C" "A" "C" "A" "C" "G" "G" "G" "T" "A" "C" "A" "T" "G" "T" "A" "T" "T"
## [24337] "G" "T" "C" "G" "A" "A" "G" "A" "T" "G" "T" "G" "G" "G" "A" "A" "T" "T"
## [24355] "C" "C" "C" "A" "A" "C" "A" "G" "A" "C" "G" "A" "C" "A" "A" "C" "A" "G"
## [24373] "G" "T" "G" "T" "T" "C" "A" "A" "A" "A" "T" "G" "T" "G" "T" "G" "G" "T"
## [24391] "G" "C" "A" "A" "G" "T" "T" "C" "T" "G" "A" "G" "A" "A" "A" "A" "C" "G"
## [24409] "T" "T" "C" "T" "T" "A" "G" "A" "T" "T" "T" "A" "A" "C" "C" "G" "T" "A"
## [24427] "C" "A" "A" "C" "T" "T" "T" "G" "T" "T" "C" "A" "T" "T" "G" "A" "G" "T"
## [24445] "A" "A" "C" "A" "A" "A" "G" "A" "G" "A" "T" "T" "G" "T" "A" "G" "T" "G"
## [24463] "G" "A" "T" "T" "G" "A" "G" "T" "G" "G" "A" "T" "G" "A" "C" "A" "G" "A"
## [24481] "A" "T" "A" "A" "T" "G" "T" "C" "A" "T" "C" "C" "G" "A" "T" "T" "C" "T"
## [24499] "A" "T" "T" "C" "A" "C" "G" "T" "G" "T" "T" "T" "T" "C" "A" "A" "T" "C"
## [24517] "G" "T" "C" "G" "A" "A" "G" "T" "G" "G" "T" "C" "G" "G" "G" "A" "A" "C"
## [24535] "G" "A" "G" "A" "C" "A" "T" "T" "A" "T" "T" "C" "G" "T" "A" "G" "A" "A"
## [24553] "C" "A" "T" "C" "T" "C" "G" "T" "C" "C" "A" "C" "C" "T" "A" "A" "T" "T"
## [24571] "T" "G" "A" "A" "G" "T" "T" "G" "A" "G" "A" "T" "A" "A" "A" "C" "A" "A"
## [24589] "C" "C" "T" "C" "A" "C" "A" "A" "T" "T" "G" "T" "T" "A" "C" "G" "T" "C"
## [24607] "A" "C" "C" "G" "T" "T" "C" "T" "A" "T" "T" "G" "T" "C" "A" "A" "C" "A"
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## [24643] "T" "T" "C" "A" "A" "T" "T" "T" "G" "G" "T" "A" "A" "T" "T" "G" "A" "A"
## [24661] "C" "A" "C" "C" "C" "A" "T" "A" "A" "A" "G" "G" "T" "G" "A" "A" "A" "A"
## [24679] "A" "T" "C" "A" "C" "A" "C" "T" "A" "A" "A" "T" "T" "A" "C" "G" "A" "C"
## [24697] "T" "G" "T" "A" "C" "A" "T" "G" "G" "A" "T" "G" "G" "G" "T" "C" "T" "T"
## [24715] "T" "T" "G" "A" "T" "C" "C" "T" "A" "G" "T" "C" "A" "A" "C" "A" "C" "A"
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## [24769] "G" "T" "A" "A" "T" "C" "C" "A" "T" "T" "T" "T" "G" "T" "A" "T" "T" "T"
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## [24859] "T" "G" "A" "C" "A" "A" "C" "A" "G" "G" "T" "A" "T" "A" "C" "A" "G" "T"
## [24877] "A" "A" "C" "T" "G" "T" "A" "C" "A" "G" "G" "T" "G" "T" "T" "G" "A" "A"
## [24895] "C" "G" "C" "A" "C" "A" "C" "C" "T" "C" "C" "A" "A" "T" "T" "A" "C" "A"
## [24913] "A" "C" "A" "G" "A" "T" "G" "A" "C" "A" "A" "C" "A" "T" "T" "T" "G" "T"
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## [24949] "G" "A" "G" "A" "G" "T" "T" "T" "C" "T" "T" "T" "C" "T" "T" "C" "A" "C"
## [24967] "A" "G" "A" "A" "T" "T" "C" "T" "A" "A" "C" "A" "G" "T" "T" "T" "C" "C"
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## [25003] "C" "C" "A" "C" "C" "T" "T" "A" "C" "A" "C" "C" "A" "T" "C" "C" "T" "A"
## [25021] "A" "T" "G" "A" "T" "C" "A" "C" "A" "T" "T" "A" "T" "A" "T" "G" "T" "G"
## [25039] "A" "A" "A" "A" "T" "A" "G" "T" "G" "G" "A" "G" "A" "G" "A" "A" "T" "T"
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## [25075] "C" "A" "C" "A" "T" "C" "T" "A" "A" "C" "A" "G" "G" "T" "C" "T" "T" "A"
## [25093] "T" "C" "C" "T" "G" "G" "T" "T" "A" "G" "A" "A" "A" "T" "A" "T" "C" "C"
## [25111] "T" "T" "G" "G" "T" "C" "G" "T" "T" "C" "A" "C" "T" "C" "T" "A" "C" "C"

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## [25129] "A" "A" "A" "G" "T" "T" "A" "T" "T" "T" "T" "A" "C" "A" "A" "G" "A" "A"
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## [25201] "C" "A" "C" "T" "T" "C" "T" "T" "T" "G" "T" "C" "T" "T" "T" "G" "A" "C"
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## [25291] "C" "A" "C" "C" "G" "T" "A" "A" "C" "A" "T" "T" "G" "T" "T" "C" "T" "C"
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## [25327] "C" "A" "C" "A" "C" "A" "A" "C" "T" "A" "T" "T" "C" "A" "C" "T" "G" "C"
## [25345] "G" "A" "T" "G" "T" "C" "A" "A" "C" "A" "A" "A" "A" "T" "G" "A" "C" "C"
## [25363] "A" "C" "A" "T" "T" "T" "T" "C" "A" "T" "T" "T" "T" "A" "G" "A" "T" "C"
## [25381] "G" "T" "G" "G" "T" "A" "T" "T" "A" "G" "T" "T" "G" "G" "T" "G" "T" "G"
## [25399] "G" "G" "A" "G" "A" "A" "C" "A" "T" "A" "A" "A" "A" "T" "T" "A" "T" "G"
## [25417] "G" "G" "A" "A" "T" "A" "T" "A" "A" "A" "T" "G" "C" "G" "A" "C" "A" "T"
## [25435] "A" "T" "C" "A" "A" "C" "T" "T" "T" "G" "A" "T" "A" "C" "C" "G" "A" "A"
## [25453] "A" "T" "C" "A" "A" "A" "G" "G" "T" "G" "T" "G" "T" "C" "T" "G" "T" "C"
## [25471] "C" "G" "T" "A" "A" "T" "T" "A" "A" "A" "C" "G" "C" "A" "C" "A" "A" "A"
## [25489] "G" "A" "A" "G" "A" "C" "G" "T" "A" "C" "A" "C" "G" "T" "T" "C" "G" "T"
## [25507] "A" "A" "A" "G" "A" "G" "C" "G" "T" "T" "T" "A" "A" "G" "G" "T" "T" "C"
## [25525] "T" "T" "T" "G" "T" "C" "A" "A" "G" "G" "T" "T" "C" "T" "T" "A" "A" "A"
## [25543] "G" "A" "A" "C" "G" "A" "A" "G" "A" "G" "T" "A" "A" "T" "C" "T" "C" "T"
## [25561] "A" "T" "T" "A" "T" "C" "T" "A" "C" "C" "A" "T" "C" "T" "T" "A" "C" "A"
## [25579] "T" "T" "T" "T" "C" "C" "G" "T" "G" "A" "A" "A" "A" "T" "G" "T" "G" "A"
## [25597] "A" "A" "A" "A" "T" "T" "C" "G" "T" "G" "A" "C" "A" "G" "A" "A" "A" "C"
## [25615] "G" "G" "A" "G" "G" "A" "G" "A" "T" "G" "T" "C" "A" "C" "A" "T" "T" "G"
## [25633] "G" "T" "A" "A" "A" "T" "T" "T" "G" "G" "G" "A" "C" "T" "G" "G" "G" "C"
## [25651] "C" "C" "A" "T" "T" "C" "A" "C" "C" "A" "A" "T" "A" "T" "A" "T" "T" "A"
## [25669] "A" "C" "A" "G" "A" "C" "A" "A" "C" "C" "G" "T" "G" "A" "A" "A" "A" "G"
## [25687] "A" "G" "T" "T" "T" "C" "G" "A" "A" "A" "G" "C" "G" "A" "T" "C" "G" "T"
## [25705] "A" "A" "A" "G" "T" "C" "A" "T" "C" "A" "C" "G" "G" "T" "G" "G" "T" "C"
## [25723] "G" "G" "A" "A" "A" "A" "A" "T" "C" "A" "T" "C" "C" "A" "T" "A" "T" "T"
## [25741] "G" "G" "T" "G" "T" "C" "G" "T" "C" "A" "A" "T" "T" "T" "T" "G" "T" "G"
## [25759] "G" "G" "A" "G" "A" "A" "C" "T" "T" "G" "T" "T" "G" "T" "A" "G" "T" "G"
## [25777] "G" "G" "T" "G" "A" "T" "A" "T" "A" "T" "A" "C" "C" "T" "C" "G" "T" "A"
## [25795] "G" "A" "A" "A" "G" "A" "A" "A" "T" "T" "C" "T" "T" "T" "C" "A" "C" "T"
## [25813] "A" "C" "A" "G" "T" "T" "A" "C" "A" "G" "T" "G" "A" "T" "T" "G" "T" "T"
## [25831] "C" "T" "C" "A" "C" "C" "G" "T" "C" "T" "T" "A" "G" "A" "C" "C" "T" "A"
## [25849] "C" "T" "T" "C" "T" "A" "A" "C" "G" "G" "T" "A" "A" "T" "T" "A" "C" "A"
## [25867] "G" "T" "T" "A" "T" "A" "T" "T" "T" "C" "A" "T" "T" "G" "T" "T" "C" "A"
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## [25993] "A" "A" "T" "A" "T" "T" "T" "A" "C" "C" "G" "A" "A" "T" "T" "G" "A" "A"
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## [26065] "G" "G" "T" "T" "T" "T" "T" "C" "G" "A" "A" "C" "T" "T" "T" "G" "T" "T"
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## [26101] "A" "T" "A" "G" "T" "T" "T" "C" "T" "G" "T" "C" "G" "A" "T" "T" "C" "A"
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## [26461] "G" "T" "A" "A" "T" "T" "G" "T" "T" "G" "G" "T" "G" "A" "C" "A" "A" "C"
## [26479] "C" "A" "A" "A" "A" "T" "G" "G" "A" "A" "A" "A" "A" "T" "C" "G" "A" "A"
## [26497] "G" "A" "A" "G" "G" "T" "G" "T" "T" "A" "C" "A" "G" "A" "C" "G" "T" "A"
## [26515] "A" "A" "A" "A" "T" "T" "A" "C" "A" "T" "A" "T" "G" "T" "A" "A" "C" "A"
## [26533] "G" "T" "C" "A" "T" "T" "C" "A" "A" "A" "A" "T" "T" "T" "A" "T" "T" "G"
## [26551] "G" "T" "G" "A" "T" "T" "T" "T" "G" "A" "T" "A" "A" "G" "T" "G" "A" "A"
## [26569] "G" "T" "T" "A" "T" "C" "A" "G" "A" "C" "T" "T" "G" "T" "T" "G" "A" "C"
## [26587] "C" "A" "C" "A" "T" "T" "C" "A" "A" "G" "G" "T" "A" "G" "A" "G" "A" "T"
## [26605] "T" "A" "A" "C" "T" "C" "C" "A" "A" "C" "T" "T" "G" "G" "A" "G" "T" "T"
## [26623] "G" "T" "T" "A" "A" "C" "A" "A" "A" "C" "T" "T" "A" "T" "C" "A" "T" "C"
## [26641] "A" "A" "C" "A" "G" "A" "C" "T" "A" "A" "C" "A" "G" "G" "A" "G" "T" "G"
## [26659] "A" "C" "G" "G" "C" "A" "G" "A" "A" "C" "A" "A" "C" "T" "G" "G" "T" "T"
## [26677] "G" "T" "C" "A" "A" "A" "C" "A" "A" "C" "T" "G" "A" "T" "A" "G" "T" "A"
## [26695] "G" "T" "A" "G" "A" "T" "T" "G" "G" "T" "T" "A" "G" "A" "A" "G" "A" "A"
## [26713] "G" "A" "A" "C" "G" "A" "G" "A" "A" "G" "A" "A" "G" "T" "C" "C" "A" "A"
## [26731] "C" "T" "T" "C" "T" "C" "G" "T" "C" "G" "T" "C" "T" "T" "C" "A" "C" "C"
## [26749] "G" "T" "G" "G" "T" "T" "T" "A" "A" "G" "G" "T" "T" "T" "C" "C" "A" "A"
## [26767] "A" "T" "G" "G" "A" "A" "C" "C" "A" "T" "T" "A" "G" "T" "A" "G" "A" "A"
## [26785] "G" "T" "C" "A" "T" "G" "G" "T" "A" "T" "G" "A" "G" "T" "A" "T" "A" "A"
## [26803] "C" "T" "C" "A" "A" "C" "T" "A" "C" "C" "G" "A" "G" "T" "T" "T" "G" "A"
## [26821] "G" "A" "A" "G" "A" "A" "G" "A" "A" "G" "T" "G" "T" "T" "A" "G" "T" "G"
## [26839] "G" "A" "A" "G" "A" "A" "G" "A" "A" "G" "T" "A" "G" "G" "A" "G" "T" "A"
## [26857] "G" "A" "C" "C" "T" "C" "C" "C" "A" "T" "C" "T" "T" "T" "C" "T" "T" "G"
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## [26893] "T" "A" "A" "A" "T" "T" "T" "G" "A" "G" "T" "G" "G" "T" "C" "T" "G" "A"
## [26911] "G" "T" "A" "G" "T" "T" "T" "A" "T" "T" "C" "A" "T" "C" "A" "T" "A" "C"
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## [26947] "G" "A" "T" "T" "T" "A" "G" "T" "T" "A" "C" "G" "G" "G" "T" "C" "A" "C"
## [26965] "C" "A" "C" "A" "T" "T" "C" "A" "T" "T" "A" "A" "G" "T" "C" "T" "A" "T"
## [26983] "G" "A" "C" "C" "A" "A" "C" "G" "T" "T" "T" "C" "A" "A" "A" "A" "A" "T"
## [27001] "A" "C" "T" "G" "T" "C" "G" "T" "A" "G" "A" "C" "G" "G" "T" "G" "T" "T"
## [27019] "G" "T" "G" "T" "C" "C" "G" "C" "T" "T" "G" "A" "G" "T" "A" "A" "A" "T"
## [27037] "G" "A" "A" "G" "A" "C" "A" "T" "G" "G" "C" "T" "C" "A" "A" "G" "T" "T"
## [27055] "G" "A" "C" "A" "T" "A" "T" "C" "C" "G" "T" "C" "T" "C" "G" "T" "G" "A"

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## [27073] "A" "G" "A" "G" "T" "A" "A" "T" "T" "C" "A" "T" "G" "A" "A" "A" "T" "A"
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## [27325] "G" "T" "G" "A" "T" "C" "A" "T" "C" "C" "A" "A" "C" "A" "A" "G" "A" "T"
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## [27469] "A" "C" "C" "T" "A" "A" "A" "T" "T" "G" "T" "G" "T" "G" "A" "A" "A" "G"
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## [27541] "C" "A" "A" "A" "T" "C" "G" "A" "G" "G" "T" "G" "G" "T" "T" "A" "T" "T"
## [27559] "A" "C" "T" "A" "T" "C" "T" "C" "A" "G" "T" "C" "G" "T" "G" "T" "G" "T"
## [27577] "T" "T" "C" "G" "G" "T" "T" "T" "T" "T" "A" "A" "A" "T" "A" "A" "A" "T"
## [27595] "G" "T" "T" "C" "G" "A" "A" "T" "T" "T" "C" "T" "T" "A" "C" "A" "G" "A"
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## [27631] "G" "G" "A" "A" "A" "C" "G" "T" "G" "T" "C" "C" "A" "C" "T" "G" "T" "T"
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## [27685] "A" "T" "T" "T" "A" "A" "A" "T" "T" "G" "T" "T" "A" "A" "A" "G" "G" "G"
## [27703] "T" "T" "G" "G" "C" "A" "G" "A" "G" "A" "T" "T" "C" "T" "T" "T" "G" "A"
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## [27739] "A" "G" "A" "G" "A" "A" "G" "T" "T" "C" "G" "G" "T" "T" "A" "G" "T" "T"
## [27757] "C" "C" "T" "G" "C" "C" "C" "A" "A" "A" "C" "T" "C" "A" "A" "A" "A" "A"
## [27775] "G" "T" "A" "T" "T" "T" "G" "T" "C" "A" "C" "G" "G" "T" "T" "T" "C" "T"
## [27793] "A" "C" "A" "A" "T" "C" "A" "A" "T" "C" "G" "G" "T" "G" "A" "C" "G" "C"
## [27811] "T" "T" "C" "A" "G" "T" "T" "G" "A" "C" "T" "T" "G" "T" "T" "G" "T" "G"
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## [27847] "A" "A" "T" "G" "T" "T" "G" "A" "T" "C" "T" "A" "A" "C" "A" "A" "T" "C"
## [27865] "A" "T" "C" "G" "G" "T" "T" "T" "A" "G" "T" "C" "T" "A" "C" "A" "C" "T"
## [27883] "T" "G" "T" "A" "G" "T" "A" "T" "C" "G" "T" "A" "G" "T" "T" "A" "C" "T"
## [27901] "C" "A" "G" "A" "G" "T" "C" "A" "C" "T" "T" "A" "T" "G" "A" "C" "A" "C"
## [27919] "T" "T" "T" "A" "A" "G" "G" "T" "A" "G" "A" "T" "C" "A" "T" "A" "A" "C"
## [27937] "A" "A" "T" "A" "T" "C" "G" "C" "C" "G" "G" "A" "A" "G" "A" "C" "A" "T"
## [27955] "T" "T" "T" "G" "T" "G" "C" "G" "T" "G" "T" "C" "T" "T" "A" "A" "A" "A"
## [27973] "C" "T" "C" "G" "T" "C" "A" "A" "A" "G" "T" "T" "C" "T" "C" "A" "C" "G"
## [27991] "C" "C" "C" "T" "C" "T" "T" "T" "T" "A" "A" "C" "T" "A" "G" "C" "A" "T"
## [28009] "G" "T" "T" "G" "T" "G" "C" "T" "C" "G" "T" "C" "G" "G" "A" "G" "A" "C"
## [28027] "T" "A" "C" "G" "T" "T" "T" "A" "C" "G" "T" "A" "T" "T" "T" "C" "T" "C"

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## [28045] "C" "T" "G" "A" "G" "T" "C" "A" "T" "A" "A" "C" "T" "A" "A" "A" "G" "A"
## [28063] "C" "A" "A" "G" "T" "G" "G" "T" "T" "A" "T" "A" "A" "G" "G" "T" "C" "C"
## [28081] "G" "T" "G" "G" "A" "A" "A" "A" "A" "A" "T" "C" "G" "A" "A" "A" "A" "G"
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## [28117] "A" "T" "G" "G" "T" "G" "T" "C" "C" "T" "A" "A" "G" "T" "T" "G" "T" "T"
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## [28423] "T" "C" "C" "G" "T" "T" "A" "T" "C" "A" "C" "G" "C" "T" "G" "G" "T" "G"
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## [28477] "C" "C" "A" "T" "A" "A" "G" "C" "C" "G" "T" "T" "C" "T" "G" "A" "T" "A"
## [28495] "C" "G" "A" "G" "T" "C" "C" "A" "G" "G" "A" "T" "G" "A" "A" "G" "A" "C"
## [28513] "T" "T" "A" "A" "C" "A" "C" "T" "G" "T" "A" "C" "G" "A" "C" "C" "T" "G"
## [28531] "T" "T" "A" "T" "T" "T" "A" "A" "A" "A" "T" "T" "G" "T" "T" "G" "T" "C"
## [28549] "G" "T" "A" "A" "A" "A" "C" "C" "C" "C" "A" "T" "T" "C" "A" "T" "T" "G"
## [28567] "G" "T" "G" "T" "T" "C" "A" "T" "C" "A" "C" "C" "G" "T" "G" "G" "A" "A"
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## [28765] "A" "A" "A" "A" "G" "A" "A" "A" "A" "G" "T" "T" "G" "G" "G" "A" "A" "C"
## [28783] "C" "A" "A" "C" "T" "T" "A" "T" "C" "A" "G" "A" "A" "C" "T" "A" "A" "T"
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## [28837] "G" "T" "A" "A" "C" "T" "T" "C" "C" "A" "C" "A" "G" "T" "T" "T" "A" "A"
## [28855] "A" "G" "A" "A" "A" "C" "G" "G" "T" "T" "A" "A" "A" "T" "T" "A" "A" "A"
## [28873] "G" "T" "T" "T" "T" "C" "C" "A" "C" "A" "G" "A" "C" "G" "T" "T" "A" "A"
## [28891] "G" "T" "A" "T" "C" "G" "A" "G" "A" "A" "A" "A" "G" "T" "C" "T" "T" "G"
## [28909] "C" "A" "A" "G" "G" "C" "A" "C" "A" "T" "G" "G" "T" "T" "C" "G" "T" "T"
## [28927] "A" "A" "A" "G" "T" "A" "C" "G" "A" "G" "T" "A" "C" "A" "A" "G" "T" "G"
## [28945] "C" "C" "G" "T" "C" "G" "T" "C" "A" "T" "A" "T" "G" "T" "G" "G" "G" "G"
## [28963] "A" "G" "A" "A" "T" "C" "A" "C" "A" "G" "T" "T" "A" "T" "T" "T" "C" "A"
## [28981] "G" "G" "T" "C" "A" "A" "C" "A" "A" "G" "C" "C" "T" "G" "T" "T" "T" "C"
## [28999] "A" "C" "G" "T" "A" "C" "T" "T" "C" "G" "A" "A" "A" "T" "G" "G" "T" "C"

```

```

## [29017] "G" "T" "G" "C" "A" "C" "G" "A" "T" "C" "T" "T" "C" "C" "A" "G" "A" "A"
## [29035] "A" "T" "T" "A" "C" "G" "T" "G" "A" "G" "T" "T" "C" "T" "C" "C" "C" "A"
## [29053] "T" "C" "G" "G" "T" "A" "G" "T" "C" "C" "C" "G" "G" "T" "G" "T" "C" "T"
## [29071] "T" "C" "A" "A" "C" "A" "A" "T" "A" "G" "C" "T" "G" "T" "A" "T" "C" "G"
## [29089] "C" "T" "C" "A" "C" "A" "T" "A" "C" "G" "G" "G" "G" "A" "G" "G" "C" "A"
## [29107] "A" "T" "T" "C" "G" "A" "G" "T" "G" "C" "G" "T" "A" "C" "T" "C" "A" "A"
## [29125] "G" "T" "G" "C" "C" "C" "A" "T" "T" "G" "T" "G" "G" "T" "G" "A" "C" "G"
## [29143] "A" "T" "A" "C" "A" "A" "A" "T" "C" "A" "C" "A" "A" "G" "G" "T" "C" "A"
## [29161] "A" "A" "A" "G" "A" "A" "C" "T" "T" "T" "T" "A" "G" "A" "A" "G" "T" "A"
## [29179] "T" "T" "C" "C" "T" "A" "G" "T" "C" "A" "C" "G" "G" "T" "T" "C" "G" "A"
## [29197] "G" "C" "A" "G" "C" "G" "G" "A" "T" "T" "C" "A" "G" "T" "T" "T" "A" "C"
## [29215] "T" "G" "A" "A" "A" "T" "C" "T" "A" "G" "C" "C" "G" "C" "G" "G" "C" "A"
## [29233] "T" "T" "G" "A" "T" "A" "C" "C" "G" "G" "T" "G" "G" "T" "C" "G" "A" "G"
## [29251] "G" "A" "A" "A" "T" "A" "A" "T" "G" "G" "C" "A" "A" "G" "A" "A" "T" "G"
## [29269] "C" "T" "T" "C" "T" "T" "C" "T" "T" "G" "G" "A" "A" "C" "G" "C" "C" "A"
## [29287] "T" "T" "C" "G" "G" "T" "G" "A" "C" "C" "A" "T" "A" "A" "A" "G" "C" "G"
## [29305] "G" "G" "T" "G" "T" "A" "C" "T" "C" "C" "C" "T" "G" "T" "T" "C" "C" "T"
## [29323] "G" "T" "G" "G" "T" "T" "C" "A" "C" "A" "G" "A" "G" "T" "G" "G" "T" "G"
## [29341] "A" "T" "G" "C" "T" "G" "G" "C" "A" "T" "G" "A" "C" "T" "T" "A" "C" "G"
## [29359] "G" "A" "A" "G" "C" "T" "C" "A" "A" "G" "A" "C" "G" "A" "T" "G" "G" "T"
## [29377] "C" "G" "A" "G" "T" "T" "G" "G" "T" "A" "T" "T" "G" "T" "A" "C" "T" "G"
## [29395] "G" "T" "A" "C" "T" "C" "C" "A" "C" "G" "T" "C" "A" "A" "G" "C" "T" "C"
## [29413] "G" "T" "A" "G" "G" "C" "T" "T" "G" "C" "A" "A" "A" "C" "T" "A" "C" "T"
## [29431] "T" "G" "T" "G" "T" "A" "T" "C" "C" "C" "G" "A" "C" "A" "A" "G" "T" "T"
## [29449] "C" "A" "A" "C" "T" "C" "C" "G" "T" "T" "T" "T" "G" "C" "G" "G" "A" "A"
## [29467] "A" "A" "A" "G" "T" "T" "G" "A" "A" "G" "A" "T" "G" "A" "T" "T" "C" "G"
## [29485] "G" "T" "G" "T" "T" "C" "A" "C" "G" "G" "T" "A" "G" "A" "A" "A" "T" "T"
## [29503] "C" "T" "A" "C" "A" "A" "C" "T" "G" "C" "A" "C" "G" "G" "A" "G" "A" "C"
## [29521] "T" "A" "T" "T" "C" "T" "G" "G" "A" "G" "G" "A" "G" "G" "T" "G" "C" "C"
## [29539] "T" "C" "A" "G" "A" "G" "G" "T" "T" "T" "C" "G" "G" "T" "G" "C" "A" "T"
## [29557] "G" "C" "T" "C" "G" "T" "G" "C" "A" "G" "C" "G" "C" "T" "T" "G" "G" "A"
## [29575] "C" "A" "T" "T" "T" "T" "G" "T" "C" "C" "G" "T" "T" "T" "G" "A" "C" "T"
## [29593] "C" "A" "A" "C" "C" "T" "G" "C" "A" "C" "A" "C" "A" "A" "A" "A" "G" "A"
## [29611] "G" "C" "A" "A" "C" "T" "T" "T" "G" "G" "T" "C" "C" "C" "T" "G" "T" "T"
## [29629] "C" "C" "G" "A" "G" "A" "G" "G" "T" "A" "G" "A" "A" "T" "G" "G" "A" "A"
## [29647] "A" "G" "C" "C" "A" "G" "T" "G" "T" "G" "G" "G" "C" "C" "T" "G" "C" "T"
## [29665] "T" "T" "G" "G" "A" "T" "C" "T" "A" "C" "A" "C" "G" "A" "C" "T" "A" "C"
## [29683] "T" "A" "G" "C" "C" "G" "A" "C" "G" "T" "T" "G" "T" "G" "C" "C" "T" "G"
## [29701] "C" "T" "T" "T" "G" "G" "C" "A" "T" "T" "C" "G" "T" "C" "G" "G" "A" "C"
## [29719] "G" "T" "C" "T" "T" "C" "T" "A" "T" "C" "T" "G" "C" "T" "C" "A" "A" "T"
## [29737] "G" "A" "G" "C" "A" "C" "A" "G" "G" "A" "C" "A" "G" "T" "T" "G" "C" "T"
## [29755] "G" "T" "C" "A" "T" "T" "A" "A" "T" "C" "A" "A" "T" "A" "A" "T" "T" "A"
## [29773] "A" "T" "A" "T" "G" "A" "C" "G" "C" "A" "C" "T" "C" "A" "C" "G" "T" "G"
## [29791] "A" "T" "T" "C" "G" "T" "A" "C" "G" "T" "C" "G" "G" "C" "T" "C" "A" "C"
## [29809] "T" "G" "T" "C" "G" "G" "T" "G" "T" "G" "T" "C" "T" "A" "A" "A" "A" "T"
## [29827] "T" "T" "C" "A" "A" "G" "C" "A" "A" "A" "T" "C" "T" "C" "T" "T" "G" "T"
## [29845] "C" "T" "A" "G" "A" "T" "G" "T" "T" "C" "T" "C" "T" "A" "G" "C" "T" "T"
## [29863] "T" "C" "A" "A" "C" "C" "A" "A" "C" "C" "A" "A" "A" "C" "A" "A" "T" "G"
## [29881] "G" "A" "C" "C" "C" "T" "T" "C" "C" "A" "T" "A" "T" "T" "T" "G" "G" "A"
## [29899] "A" "A" "T" "T" "A"

```

```
#ALPHA
```

```
reverse(unlist(seqinr::getSequence(Alpha)))
```

```
## [1] "A" "T" "C" "C" "G" "T" "C" "G" "A" "G" "A" "G" "G" "G" "A" "T" "C" "G"
```



```

## [19] "T" "A" "A" "C" "A" "A" "G" "T" "G" "A" "C" "A" "T" "G" "T" "G" "A" "G"
## [37] "C" "T" "A" "G" "C" "A" "T" "G" "A" "G" "G" "C" "G" "C" "A" "C" "C" "G"
## [55] "G" "A" "G" "C" "C" "A" "C" "T" "T" "T" "T" "A" "C" "A" "C" "C" "A" "C"
## [73] "C" "G" "A" "G" "A" "A" "A" "G" "T" "T" "C" "A" "G" "G" "A" "G" "G" "G"
## [91] "A" "T" "T" "A" "C" "A" "A" "T" "G" "T" "G" "T" "G" "A" "C" "T" "A" "A"
## [109] "T" "T" "T" "C" "T" "A" "A" "C" "G" "A" "T" "A" "C" "A" "C" "T" "C" "T"
## [127] "A" "A" "T" "T" "T" "C" "A" "A" "T" "T" "G" "A" "T" "G" "T" "A" "G" "A"
## [145] "T" "G" "A" "A" "C" "A" "C" "G" "A" "T" "A" "C" "A" "T" "C" "A" "A" "T"
## [163] "G" "C" "T" "C" "T" "T" "A" "A" "G" "T" "A" "A" "G" "A" "C" "G" "T" "G"
## [181] "T" "T" "C" "T" "C" "A" "T" "C" "T" "G" "A" "T" "A" "T" "A" "T" "A" "G"
## [199] "C" "A" "T" "T" "T" "G" "C" "C" "T" "T" "T" "T" "C" "G" "C" "T" "T" "T"
## [217] "T" "G" "C" "A" "A" "A" "T" "A" "T" "A" "T" "C" "G" "G" "G" "T" "A" "G"
## [235] "A" "C" "G" "G" "A" "A" "C" "A" "C" "A" "C" "C" "A" "G" "A" "C" "G" "T"
## [253] "A" "C" "T" "C" "A" "A" "A" "T" "C" "C" "G" "G" "A" "C" "T" "C" "A" "A"
## [271] "C" "T" "C" "A" "G" "T" "C" "G" "T" "G" "A" "C" "G" "A" "G" "T" "A" "C"
## [289] "C" "T" "A" "A" "C" "A" "A" "C" "G" "T" "T" "A" "A" "C" "A" "A" "A" "C"
## [307] "C" "T" "C" "T" "T" "T" "A" "G" "T" "A" "G" "G" "T" "T" "T" "A" "G" "A"
## [325] "C" "G" "T" "C" "G" "T" "C" "C" "T" "T" "C" "T" "T" "C" "T" "C" "A" "G"
## [343] "T" "G" "T" "C" "A" "A" "A" "C" "G" "A" "C" "A" "A" "A" "G" "A" "A" "G"
## [361] "A" "C" "A" "G" "A" "G" "A" "C" "G" "C" "C" "A" "T" "T" "C" "C" "G" "A"
## [379] "A" "C" "T" "C" "A" "A" "A" "G" "T" "A" "G" "T" "C" "G" "G" "A" "A" "G"
## [397] "A" "A" "G" "A" "A" "A" "A" "A" "C" "A" "G" "G" "A" "A" "A" "A" "T"
## [415] "C" "C" "G" "A" "G" "A" "C" "A" "A" "C" "C" "A" "C" "C" "C" "T" "T" "A"
## [433] "C" "A" "A" "A" "A" "C" "A" "T" "A" "C" "G" "C" "A" "G" "T" "T" "A" "T"
## [451] "A" "C" "G" "A" "A" "T" "A" "A" "G" "T" "C" "G" "T" "T" "T" "T" "A" "C"
## [469] "T" "G" "A" "A" "C" "T" "A" "G" "A" "A" "A" "C" "T" "T" "T" "A" "A" "A"
## [487] "C" "C" "T" "A" "G" "A" "A" "A" "C" "A" "G" "T" "A" "G" "G" "T" "T" "A"
## [505] "A" "A" "C" "T" "A" "C" "C" "G" "T" "G" "G" "A" "C" "A" "C" "A" "T" "C"
## [523] "C" "A" "G" "T" "T" "G" "G" "T" "G" "C" "A" "A" "G" "G" "G" "C" "T" "T"
## [541] "C" "C" "A" "C" "A" "C" "T" "G" "A" "A" "G" "G" "T" "A" "C" "G" "G" "T"
## [559] "T" "A" "C" "G" "C" "G" "C" "T" "G" "T" "A" "A" "G" "G" "C" "T" "T" "C"
## [577] "T" "T" "G" "C" "G" "A" "C" "T" "T" "C" "G" "C" "G" "A" "C" "C" "C" "C"
## [595] "C" "G" "T" "T" "T" "A" "A" "C" "A" "C" "G" "T" "T" "A" "A" "A" "C" "G"
## [613] "C" "C" "G" "G" "T" "T" "A" "C" "A" "A" "A" "C" "A" "T" "T" "A" "G" "T"
## [631] "C" "A" "A" "G" "G" "A" "A" "C" "A" "G" "A" "C" "T" "A" "A" "T" "C" "A"
## [649] "A" "G" "G" "A" "C" "C" "A" "G" "G" "G" "G" "T" "T" "T" "T" "A" "A" "A"
## [667] "G" "G" "A" "A" "C" "C" "C" "A" "A" "A" "C" "A" "A" "G" "A" "C" "C" "T"
## [685] "G" "G" "T" "G" "C" "A" "G" "A" "C" "G" "G" "C" "T" "T" "T" "C" "G" "A"
## [703] "A" "C" "A" "C" "A" "A" "T" "G" "T" "A" "A" "C" "A" "T" "A" "C" "G" "A"
## [721] "A" "A" "T" "C" "A" "C" "C" "G" "T" "C" "A" "T" "G" "C" "A" "A" "A" "A"
## [739] "A" "C" "G" "G" "C" "T" "C" "C" "G" "A" "A" "G" "A" "A" "T" "C" "T" "T"
## [757] "C" "G" "G" "A" "G" "T" "C" "G" "T" "C" "G" "T" "C" "T" "A" "A" "A" "G"
## [775] "A" "A" "T" "C" "A" "C" "T" "G" "T" "C" "A" "A" "A" "C" "C" "G" "G" "A"
## [793] "A" "C" "A" "A" "C" "A" "A" "C" "A" "A" "C" "C" "G" "G" "A" "A" "A" "T"
## [811] "G" "G" "T" "T" "T" "G" "T" "A" "A" "A" "A" "C" "G" "A" "G" "A" "G" "T"
## [829] "T" "C" "G" "A" "C" "C" "A" "A" "G" "T" "T" "A" "G" "A" "C" "A" "G" "T"
## [847] "T" "C" "G" "T" "C" "G" "T" "C" "G" "T" "T" "T" "C" "G" "T" "T" "C" "T"
## [865] "C" "G" "T" "C" "G" "T" "A" "G" "T" "G" "G" "C" "G" "G" "T" "A" "A" "C"
## [883] "G" "G" "T" "C" "G" "G" "T" "A" "A" "G" "A" "T" "C" "G" "T" "C" "C" "T"
## [901] "C" "T" "T" "C" "A" "A" "C" "C" "A" "A" "A" "T" "G" "A" "C" "G" "A" "C"
## [919] "G" "G" "A" "C" "C" "T" "C" "A" "A" "C" "T" "T" "A" "A" "A" "G" "A" "A"
## [937] "C" "T" "T" "G" "A" "C" "A" "A" "C" "G" "C" "T" "G" "A" "T" "G" "C" "A"
## [955] "C" "T" "A" "C" "T" "C" "C" "T" "T" "G" "C" "T" "C" "T" "T" "C" "T" "C"
## [973] "C" "G" "A" "A" "C" "T" "G" "A" "C" "G" "G" "C" "G" "G" "A" "G" "A" "C"

```

```

## [991] "G" "A" "G" "G" "G" "A" "A" "G" "A" "C" "G" "C" "A" "T" "C" "T" "T" "C"
## [1009] "G" "G" "A" "A" "A" "A" "C" "C" "G" "T" "T" "A" "C" "A" "A" "C" "A" "A"
## [1027] "G" "G" "A" "A" "C" "T" "C" "C" "T" "T" "C" "A" "A" "C" "A" "T" "C" "G"
## [1045] "T" "G" "C" "T" "A" "A" "C" "G" "T" "C" "G" "T" "A" "A" "C" "A" "A" "T"
## [1063] "C" "G" "T" "C" "C" "T" "A" "A" "C" "G" "C" "C" "C" "A" "C" "G" "G" "T"
## [1081] "T" "A" "C" "A" "C" "T" "A" "G" "A" "A" "A" "A" "C" "C" "A" "C" "A" "T"
## [1099] "A" "A" "G" "T" "T" "C" "C" "G" "A" "G" "G" "G" "A" "G" "T" "C" "A" "A"
## [1117] "C" "G" "T" "T" "G" "G" "G" "T" "A" "T" "A" "C" "T" "A" "C" "G" "G" "C"
## [1135] "A" "G" "A" "A" "A" "C" "A" "A" "T" "C" "G" "T" "G" "G" "T" "A" "T" "C"
## [1153] "C" "C" "T" "T" "C" "A" "G" "G" "T" "C" "G" "A" "A" "G" "A" "C" "C" "G"
## [1171] "G" "G" "T" "C" "A" "A" "G" "G" "A" "T" "C" "C" "A" "T" "C" "A" "T" "C"
## [1189] "T" "T" "T" "A" "T" "G" "G" "T" "A" "G" "A" "A" "C" "C" "T" "G" "A" "C"
## [1207] "T" "C" "T" "A" "G" "A" "A" "A" "G" "T" "A" "A" "A" "A" "T" "G" "G" "C"
## [1225] "A" "G" "T" "G" "G" "T" "G" "G" "T" "G" "C" "T" "T" "A" "A" "G" "C" "A"
## [1243] "G" "A" "C" "C" "A" "T" "C" "G" "A" "G" "A" "A" "G" "C" "C" "A" "T" "C"
## [1261] "A" "T" "C" "G" "G" "T" "T" "A" "A" "A" "C" "C" "A" "G" "T" "A" "G" "A"
## [1279] "C" "C" "T" "G" "A" "C" "G" "A" "T" "A" "A" "C" "C" "A" "C" "A" "A" "T"
## [1297] "T" "A" "A" "C" "C" "T" "T" "G" "C" "G" "G" "A" "A" "C" "A" "G" "G" "A"
## [1315] "G" "C" "T" "C" "C" "C" "T" "T" "A" "A" "A" "T" "T" "C" "C" "A" "G" "A"
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## [1387] "G" "G" "A" "A" "C" "C" "C" "C" "G" "G" "C" "T" "G" "C" "A" "A" "C" "A"
## [1405] "A" "A" "A" "C" "T" "A" "G" "C" "G" "C" "G" "G" "G" "G" "T" "G" "A" "C"
## [1423] "G" "C" "A" "A" "G" "A" "G" "G" "T" "A" "A" "G" "A" "C" "C" "A" "A" "T"
## [1441] "G" "A" "C" "G" "G" "T" "C" "A" "A" "C" "T" "T" "A" "G" "A" "C" "T" "C"
## [1459] "C" "C" "A" "G" "G" "T" "G" "G" "T" "T" "T" "G" "C" "A" "T" "T" "A" "C"
## [1477] "G" "C" "C" "C" "C" "A" "C" "G" "T" "A" "A" "A" "G" "C" "G" "A" "C" "T"
## [1495] "A" "A" "A" "A" "C" "C" "C" "C" "A" "G" "G" "T" "A" "A" "A" "T" "C" "T"
## [1513] "C" "T" "G" "T" "A" "A" "A" "T" "C" "A" "A" "A" "C" "A" "A" "G" "C" "A"
## [1531] "A" "A" "T" "C" "T" "A" "C" "T" "T" "T" "A" "G" "A" "T" "T" "T" "T" "G"
## [1549] "T" "T" "G" "T" "G" "C" "T" "T" "G" "C" "A" "G" "T" "A" "C" "T" "A" "T"
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## [1693] "A" "A" "T" "T" "C" "T" "T" "G" "G" "T" "C" "G" "G" "A" "G" "T" "A" "G"
## [1711] "G" "T" "G" "C" "G" "T" "G" "T" "T" "A" "A" "G" "T" "T" "A" "A" "T" "T"
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## [1873] "A" "G" "G" "A" "T" "T" "C" "T" "T" "T" "T" "G" "T" "T" "C" "T" "T" "T"
## [1891] "A" "A" "A" "G" "T" "A" "C" "A" "A" "G" "C" "A" "A" "A" "T" "C" "C" "G"
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## [1945] "C" "T" "T" "G" "G" "T" "T" "T" "T" "C" "T" "A" "T" "T" "A" "T" "T" "C"

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## [1963] "G" "T" "A" "T" "T" "A" "A" "T" "T" "T" "T" "G" "T" "T" "C" "C" "T" "T"
## [1981] "A" "T" "C" "G" "T" "C" "T" "T" "T" "C" "C" "G" "A" "T" "T" "T" "T" "T"
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## [2197] "G" "T" "T" "C" "G" "T" "T" "T" "T" "C" "G" "T" "T" "T" "A" "A" "C" "T"
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## [2683] "A" "C" "G" "T" "C" "G" "T" "T" "T" "T" "G" "G" "A" "C" "T" "C" "A" "G"
## [2701] "T" "G" "G" "A" "C" "G" "A" "T" "G" "T" "G" "C" "G" "A" "C" "G" "C" "T"
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## [2737] "T" "C" "T" "T" "T" "C" "G" "C" "A" "A" "G" "C" "A" "C" "T" "A" "C" "A"
## [2755] "T" "C" "G" "T" "T" "G" "T" "C" "A" "C" "T" "A" "A" "A" "G" "A" "A" "A"
## [2773] "T" "C" "C" "G" "T" "C" "C" "A" "G" "G" "A" "A" "C" "T" "A" "C" "A" "G"
## [2791] "T" "G" "T" "C" "G" "C" "A" "G" "G" "A" "T" "C" "T" "A" "C" "C" "A" "C"
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## [2863] "A" "A" "G" "A" "T" "C" "T" "T" "C" "G" "C" "C" "A" "G" "A" "C" "C" "A"
## [2881] "G" "T" "C" "T" "T" "A" "T" "C" "A" "C" "G" "G" "T" "A" "C" "C" "T" "C"
## [2899] "A" "C" "C" "G" "T" "G" "C" "A" "A" "C" "T" "C" "T" "T" "C" "T" "T" "A"
## [2917] "C" "A" "A" "T" "C" "A" "A" "A" "G" "A" "C" "C" "T" "A" "A" "C" "T" "T"

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## [2935] "A" "C" "T" "G" "G" "T" "G" "T" "A" "C" "C" "T" "T" "G" "C" "G" "C" "A"
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## [2989] "C" "T" "C" "G" "G" "T" "G" "T" "A" "G" "T" "T" "C" "G" "G" "A" "T" "G"
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## [3385] "C" "C" "A" "A" "A" "A" "T" "G" "T" "T" "C" "T" "G" "A" "G" "T" "G" "C"
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## [3673] "A" "G" "A" "A" "G" "T" "C" "C" "G" "A" "G" "T" "A" "G" "T" "T" "G" "T"
## [3691] "T" "A" "A" "A" "A" "T" "A" "A" "C" "A" "T" "C" "T" "A" "C" "T" "T" "C"
## [3709] "T" "T" "C" "C" "A" "T" "T" "G" "T" "A" "C" "A" "A" "G" "T" "T" "G" "T"
## [3727] "G" "G" "T" "C" "A" "C" "A" "G" "A" "C" "A" "T" "G" "A" "G" "T" "T" "A"
## [3745] "A" "C" "T" "C" "A" "A" "C" "T" "C" "A" "T" "G" "T" "C" "G" "A" "C" "C"
## [3763] "A" "T" "T" "A" "T" "C" "A" "G" "A" "C" "T" "T" "C" "A" "C" "T" "T" "C"
## [3781] "A" "T" "T" "G" "A" "C" "A" "C" "A" "T" "T" "A" "T" "G" "T" "T" "G" "T"
## [3799] "G" "T" "C" "A" "G" "A" "A" "A" "A" "T" "G" "A" "G" "G" "T" "C" "T" "A"
## [3817] "A" "G" "G" "G" "T" "A" "A" "A" "A" "A" "G" "T" "C" "A" "T" "A" "T" "T"
## [3835] "G" "G" "T" "G" "G" "T" "T" "A" "G" "A" "C" "C" "A" "T" "C" "A" "G" "T"
## [3853] "A" "C" "A" "A" "G" "T" "C" "T" "T" "T" "A" "T" "C" "C" "T" "G" "A" "A"
## [3871] "C" "A" "A" "C" "A" "C" "G" "G" "T" "A" "G" "T" "G" "G" "A" "C" "T" "T"
## [3889] "C" "A" "T" "T" "A" "C" "T" "G" "T" "T" "A" "A" "C" "T" "T" "C" "T" "T"

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## [3907] "C" "A" "A" "T" "G" "T" "G" "A" "T" "A" "A" "C" "A" "T" "T" "C" "C" "A"
## [3925] "T" "A" "T" "G" "T" "T" "A" "T" "C" "A" "G" "C" "A" "T" "T" "G" "T" "T"
## [3943] "A" "A" "T" "C" "A" "T" "A" "C" "G" "G" "T" "C" "G" "T" "T" "T" "C" "T"
## [3961] "T" "T" "T" "A" "T" "C" "A" "A" "C" "C" "G" "T" "A" "G" "T" "A" "T" "T"
## [3979] "T" "C" "A" "T" "T" "A" "C" "C" "C" "A" "A" "A" "A" "A" "C" "C" "T" "T"
## [3997] "G" "C" "C" "G" "T" "A" "A" "A" "G" "G" "T" "C" "G" "T" "T" "T" "C" "G"
## [4015] "G" "T" "T" "T" "C" "G" "G" "A" "G" "T" "A" "A" "T" "A" "A" "T" "A" "A"
## [4033] "G" "A" "A" "T" "G" "T" "T" "T" "C" "A" "A" "A" "T" "A" "T" "G" "A" "G"
## [4051] "A" "C" "G" "T" "T" "C" "T" "T" "C" "A" "T" "C" "T" "G" "A" "T" "T" "T"
## [4069] "C" "G" "T" "A" "T" "T" "T" "C" "T" "A" "T" "C" "T" "C" "T" "T" "T" "T"
## [4087] "C" "C" "C" "C" "G" "A" "A" "G" "T" "T" "C" "C" "G" "G" "T" "C" "G" "T"
## [4105] "C" "G" "T" "T" "G" "C" "T" "C" "G" "T" "T" "T" "T" "C" "C" "A" "C" "A"
## [4123] "C" "T" "C" "A" "T" "T" "T" "G" "A" "C" "A" "A" "T" "G" "T" "T" "T" "G"
## [4141] "T" "T" "G" "T" "T" "G" "T" "C" "G" "T" "T" "C" "A" "A" "C" "G" "T" "T"
## [4159] "T" "G" "T" "T" "T" "C" "A" "C" "T" "T" "G" "T" "G" "G" "G" "A" "A" "C"
## [4177] "C" "T" "C" "T" "C" "A" "C" "G" "A" "T" "C" "A" "A" "C" "G" "G" "T" "A"
## [4195] "G" "A" "G" "A" "A" "A" "A" "A" "C" "T" "C" "C" "C" "A" "A" "T" "A" "C"
## [4213] "T" "A" "A" "A" "A" "C" "C" "T" "T" "C" "G" "C" "G" "A" "G" "A" "C" "T"
## [4231] "T" "T" "T" "T" "G" "T" "C" "G" "T" "T" "C" "T" "T" "C" "A" "C" "G" "T"
## [4249] "T" "G" "C" "G" "G" "T" "T" "G" "T" "T" "A" "T" "T" "C" "G" "G" "T" "A"
## [4267] "G" "G" "C" "T" "T" "T" "C" "C" "C" "T" "C" "A" "C" "T" "C" "C" "G" "A"
## [4285] "A" "C" "A" "T" "A" "G" "C" "C" "A" "T" "A" "G" "C" "A" "A" "C" "G" "T"
## [4303] "C" "A" "T" "C" "G" "C" "G" "C" "T" "T" "G" "T" "T" "T" "T" "A" "G" "A"
## [4321] "C" "T" "T" "C" "C" "T" "C" "A" "T" "C" "G" "T" "A" "G" "G" "A" "A" "C"
## [4339] "T" "A" "A" "A" "G" "T" "G" "G" "A" "A" "C" "G" "A" "A" "G" "T" "T" "T"
## [4357] "C" "A" "A" "T" "G" "T" "C" "A" "A" "G" "G" "T" "T" "A" "A" "C" "A" "C"
## [4375] "T" "T" "C" "T" "A" "A" "G" "A" "G" "T" "A" "T" "T" "T" "G" "T" "T" "T"
## [4393] "A" "G" "G" "T" "A" "T" "T" "C" "A" "A" "G" "C" "A" "A" "A" "T" "A" "C"
## [4411] "A" "C" "A" "T" "T" "A" "C" "A" "T" "T" "A" "A" "A" "C" "T" "G" "A" "G"
## [4429] "G" "A" "A" "A" "C" "T" "C" "G" "T" "G" "A" "C" "C" "G" "A" "G" "T" "C"
## [4447] "T" "C" "A" "G" "C" "A" "G" "A" "A" "G" "T" "A" "G" "T" "T" "T" "A" "A"
## [4465] "A" "C" "G" "T" "C" "G" "T" "C" "C" "T" "A" "G" "G" "T" "G" "T" "T" "C"
## [4483] "T" "T" "G" "T" "T" "G" "T" "C" "G" "G" "G" "A" "A" "C" "T" "C" "T" "G"
## [4501] "T" "T" "G" "A" "T" "G" "T" "C" "G" "T" "T" "G" "A" "C" "C" "A" "G" "T"
## [4519] "A" "T" "G" "T" "C" "G" "T" "T" "T" "C" "G" "T" "A" "T" "T" "A" "A" "C"
## [4537] "A" "G" "T" "G" "G" "T" "A" "A" "T" "G" "A" "T" "A" "C" "C" "G" "T" "T"
## [4555] "A" "G" "T" "T" "C" "G" "G" "T" "C" "G" "A" "T" "A" "T" "T" "T" "T" "G"
## [4573] "G" "A" "T" "C" "G" "G" "T" "T" "T" "A" "C" "A" "T" "G" "G" "T" "A" "C"
## [4591] "C" "G" "G" "T" "A" "A" "A" "A" "T" "A" "T" "A" "T" "G" "A" "C" "G" "A"
## [4609] "G" "T" "A" "T" "G" "A" "A" "A" "G" "G" "T" "T" "C" "A" "A" "G" "A" "A"
## [4627] "C" "C" "T" "C" "T" "A" "G" "C" "T" "A" "C" "T" "C" "T" "C" "T" "A" "A"
## [4645] "G" "T" "A" "A" "A" "T" "T" "T" "A" "A" "G" "A" "A" "C" "C" "G" "T" "T"
## [4663] "G" "G" "A" "G" "T" "A" "A" "C" "T" "C" "C" "G" "C" "C" "A" "G" "T" "T"
## [4681] "A" "A" "A" "G" "A" "A" "A" "A" "A" "C" "T" "T" "A" "C" "A" "A" "A" "T"
## [4699] "G" "T" "T" "G" "A" "C" "T" "T" "C" "G" "T" "A" "A" "T" "T" "A" "C" "G"
## [4717] "G" "T" "C" "T" "C" "T" "A" "C" "A" "G" "T" "G" "G" "A" "T" "T" "T" "A"
## [4735] "G" "T" "T" "G" "T" "A" "G" "A" "C" "C" "A" "C" "T" "A" "C" "A" "T" "A"
## [4753] "C" "T" "A" "A" "G" "A" "A" "T" "T" "T" "T" "A" "T" "A" "A" "A" "T" "A"
## [4771] "G" "A" "T" "T" "G" "A" "G" "G" "A" "G" "G" "A" "A" "C" "T" "T" "A" "C"
## [4789] "T" "C" "A" "G" "A" "T" "T" "A" "A" "G" "T" "C" "C" "A" "A" "C" "G" "T"
## [4807] "T" "T" "C" "C" "T" "A" "G" "T" "A" "T" "T" "T" "G" "A" "C" "A" "C" "A"
## [4825] "A" "C" "A" "A" "C" "T" "G" "T" "T" "A" "A" "G" "G" "A" "T" "A" "A" "T"
## [4843] "G" "T" "T" "G" "T" "A" "G" "T" "G" "T" "C" "A" "A" "T" "G" "G" "T" "C"
## [4861] "T" "G" "T" "G" "T" "T" "T" "A" "C" "A" "C" "A" "A" "C" "A" "C" "A" "C"

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## [4879] "A" "T" "C" "A" "T" "T" "A" "C" "T" "A" "A" "A" "C" "A" "C" "C" "A" "A"
## [4897] "G" "T" "A" "T" "T" "T" "T" "T" "A" "A" "G" "G" "A" "A" "A" "C" "A" "C"
## [4915] "A" "A" "T" "G" "T" "T" "T" "G" "G" "T" "C" "A" "C" "A" "C" "A" "C" "G"
## [4933] "G" "T" "A" "A" "A" "C" "T" "T" "T" "G" "T" "T" "T" "C" "T" "G" "T" "G"
## [4951] "G" "A" "A" "G" "T" "G" "C" "T" "C" "C" "T" "T" "T" "C" "A" "C" "A" "C"
## [4969] "G" "A" "A" "A" "A" "G" "G" "T" "A" "G" "T" "A" "C" "T" "G" "T" "T" "T"
## [4987] "A" "C" "C" "G" "T" "C" "C" "T" "C" "G" "T" "C" "A" "A" "C" "A" "C" "T"
## [5005] "T" "C" "A" "A" "G" "A" "A" "A" "A" "G" "A" "A" "C" "A" "C" "G" "T" "C"
## [5023] "C" "C" "T" "G" "T" "A" "T" "T" "C" "A" "G" "T" "G" "T" "A" "C" "G" "T"
## [5041] "T" "C" "T" "T" "C" "T" "G" "A" "T" "G" "T" "G" "G" "T" "A" "C" "T" "C"
## [5059] "C" "A" "C" "G" "A" "C" "T" "G" "A" "C" "T" "C" "C" "C" "T" "T" "C" "C"
## [5077] "T" "G" "T" "A" "T" "T" "C" "T" "A" "C" "T" "A" "T" "C" "G" "G" "G" "A"
## [5095] "A" "A" "G" "G" "T" "G" "T" "T" "T" "T" "T" "A" "G" "T" "T" "G" "A" "G"
## [5113] "A" "A" "A" "A" "A" "C" "T" "A" "A" "C" "A" "G" "G" "T" "T" "C" "A" "T"
## [5131] "G" "T" "G" "T" "G" "A" "G" "A" "C" "T" "G" "T" "A" "A" "A" "A" "T" "C"
## [5149] "A" "T" "C" "G" "T" "C" "G" "T" "T" "C" "T" "A" "A" "T" "C" "G" "T" "C"
## [5167] "T" "T" "C" "G" "A" "G" "A" "C" "T" "A" "A" "A" "G" "A" "C" "G" "T" "C"
## [5185] "G" "A" "G" "A" "T" "T" "A" "A" "T" "T" "A" "A" "C" "A" "A" "C" "T" "C"
## [5203] "A" "G" "T" "G" "T" "A" "T" "A" "C" "A" "G" "A" "C" "G" "T" "T" "T" "G"
## [5221] "A" "A" "A" "C" "T" "T" "C" "A" "G" "A" "C" "G" "G" "A" "C" "A" "C" "T"
## [5239] "A" "G" "T" "T" "G" "G" "A" "T" "A" "G" "T" "T" "A" "A" "A" "C" "G" "T"
## [5257] "G" "A" "A" "G" "T" "C" "G" "G" "A" "G" "T" "T" "G" "A" "A" "A" "C" "A"
## [5275] "G" "T" "T" "C" "T" "G" "C" "A" "C" "G" "T" "T" "C" "C" "T" "A" "T" "A"
## [5293] "G" "T" "A" "A" "A" "T" "T" "T" "T" "G" "T" "G" "A" "A" "C" "T" "T" "T"
## [5311] "A" "A" "C" "G" "T" "G" "G" "T" "T" "T" "T" "A" "A" "C" "C" "T" "C" "G"
## [5329] "A" "T" "T" "C" "A" "A" "C" "A" "A" "A" "T" "T" "G" "T" "T" "C" "G" "C"
## [5347] "A" "C" "A" "A" "A" "T" "T" "T" "C" "G" "A" "A" "C" "A" "C" "G" "T" "A"
## [5365] "A" "A" "A" "C" "C" "A" "A" "C" "T" "G" "G" "T" "G" "T" "A" "G" "A" "A"
## [5383] "C" "T" "T" "C" "A" "A" "A" "A" "G" "G" "T" "T" "C" "A" "C" "G" "T" "G"
## [5401] "A" "A" "C" "G" "A" "C" "A" "C" "C" "T" "T" "C" "T" "T" "T" "C" "A" "C"
## [5419] "T" "C" "A" "G" "A" "A" "C" "T" "T" "A" "A" "A" "A" "C" "G" "G" "T" "T"
## [5437] "A" "T" "C" "G" "T" "G" "A" "T" "A" "A" "T" "T" "T" "A" "A" "C" "C" "A"
## [5455] "A" "C" "C" "G" "T" "T" "A" "G" "T" "T" "A" "A" "A" "A" "A" "C" "C" "A"
## [5473] "A" "G" "A" "G" "T" "A" "T" "C" "T" "C" "T" "T" "G" "T" "A" "A" "G" "A"
## [5491] "C" "A" "C" "A" "T" "T" "G" "A" "G" "G" "T" "T" "A" "T" "G" "G" "T" "A"
## [5509] "A" "T" "T" "T" "G" "G" "A" "T" "A" "T" "T" "C" "G" "G" "T" "A" "A" "A"
## [5527] "C" "G" "T" "A" "T" "C" "G" "T" "T" "T" "A" "C" "C" "A" "T" "A" "A" "A"
## [5545] "C" "A" "T" "T" "A" "C" "G" "T" "C" "G" "T" "G" "G" "A" "C" "G" "T" "G"
## [5563] "G" "T" "T" "T" "C" "C" "A" "G" "G" "T" "T" "G" "G" "T" "C" "T" "T" "C"
## [5581] "A" "C" "T" "A" "A" "C" "A" "T" "G" "G" "G" "C" "G" "A" "T" "T" "G" "T"
## [5599] "C" "A" "C" "G" "T" "C" "T" "T" "C" "A" "C" "A" "T" "A" "A" "C" "T" "C"
## [5617] "G" "T" "T" "A" "G" "T" "A" "A" "A" "G" "T" "A" "G" "A" "C" "A" "C" "T"
## [5635] "C" "G" "T" "T" "T" "C" "C" "A" "C" "C" "G" "T" "T" "T" "T" "G" "T" "C"
## [5653] "A" "T" "T" "C" "C" "G" "G" "C" "A" "A" "T" "T" "T" "G" "A" "A" "A" "A"
## [5671] "C" "A" "C" "G" "T" "G" "T" "T" "T" "A" "C" "T" "C" "C" "A" "G" "A" "G"
## [5689] "A" "T" "C" "G" "T" "C" "G" "T" "T" "A" "T" "A" "G" "T" "G" "G" "T" "T"
## [5707] "C" "C" "G" "T" "T" "A" "G" "T" "G" "G" "T" "A" "T" "A" "A" "C" "A" "A"
## [5725] "A" "C" "T" "A" "C" "T" "T" "C" "G" "G" "T" "C" "G" "T" "A" "G" "A" "C"
## [5743] "G" "T" "T" "C" "A" "C" "A" "G" "T" "G" "A" "A" "A" "C" "A" "A" "C" "T"
## [5761] "T" "T" "T" "C" "A" "T" "C" "T" "A" "G" "A" "A" "G" "T" "T" "A" "T" "T"
## [5779] "T" "A" "C" "T" "G" "G" "A" "G" "A" "A" "C" "G" "A" "A" "C" "C" "A" "A"
## [5797] "A" "A" "C" "T" "A" "C" "C" "T" "A" "G" "A" "C" "C" "A" "T" "T" "A" "T"
## [5815] "A" "A" "A" "C" "A" "C" "T" "T" "T" "T" "T" "A" "A" "T" "T" "T" "T" "G"
## [5833] "G" "T" "G" "G" "T" "T" "T" "T" "A" "G" "A" "A" "A" "T" "T" "A" "A" "C"

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## [5851] "C" "A" "C" "C" "A" "C" "A" "A" "A" "A" "C" "A" "T" "T" "T" "A" "A" "A"
## [5869] "C" "A" "A" "A" "C" "T" "G" "A" "A" "C" "A" "C" "G" "T" "T" "T" "T" "T"
## [5887] "G" "A" "A" "G" "A" "A" "C" "C" "C" "A" "C" "A" "A" "A" "A" "A" "C" "A"
## [5905] "G" "A" "A" "C" "A" "A" "G" "T" "T" "G" "T" "C" "G" "A" "T" "A" "A" "G"
## [5923] "G" "T" "C" "A" "A" "T" "T" "T" "C" "G" "T" "G" "C" "C" "A" "A" "A" "T"
## [5941] "T" "A" "A" "C" "A" "C" "A" "T" "G" "T" "T" "T" "T" "T" "G" "A" "C" "G"
## [5959] "G" "T" "A" "T" "A" "A" "C" "G" "T" "T" "G" "T" "T" "T" "T" "C" "T" "A"
## [5977] "A" "C" "G" "A" "C" "G" "T" "A" "A" "G" "T" "C" "A" "A" "C" "T" "T" "A"
## [5995] "G" "T" "G" "G" "T" "G" "T" "T" "T" "A" "C" "A" "T" "G" "T" "A" "A" "C"
## [6013] "A" "T" "G" "T" "T" "A" "G" "A" "T" "G" "A" "C" "T" "A" "C" "A" "G" "A"
## [6031] "A" "C" "C" "A" "G" "T" "A" "T" "C" "T" "G" "T" "G" "A" "C" "C" "A" "T"
## [6049] "C" "T" "T" "A" "A" "A" "G" "A" "C" "A" "C" "C" "A" "T" "T" "G" "T" "G"
## [6067] "A" "T" "T" "A" "T" "C" "A" "T" "T" "T" "T" "A" "A" "A" "T" "A" "C" "C"
## [6085] "C" "A" "T" "A" "C" "C" "G" "T" "T" "A" "T" "C" "T" "C" "A" "A" "T" "A"
## [6103] "A" "T" "C" "T" "C" "A" "T" "T" "C" "G" "T" "T" "G" "A" "C" "T" "T" "A"
## [6121] "A" "A" "A" "G" "A" "C" "G" "T" "G" "G" "T" "T" "C" "A" "C" "T" "G" "T"
## [6139] "A" "T" "C" "A" "C" "A" "T" "C" "C" "G" "T" "T" "A" "C" "T" "A" "C" "C"
## [6157] "T" "A" "A" "C" "T" "G" "A" "T" "C" "G" "A" "T" "G" "T" "G" "A" "T" "G"
## [6175] "C" "A" "C" "G" "G" "G" "C" "G" "G" "C" "T" "A" "C" "T" "C" "T" "T" "A"
## [6193] "A" "T" "C" "A" "G" "A" "C" "T" "C" "A" "G" "A" "C" "T" "A" "T" "T" "G"
## [6211] "A" "T" "C" "G" "C" "G" "T" "A" "T" "A" "T" "G" "G" "A" "C" "G" "T" "G"
## [6229] "G" "T" "T" "A" "C" "C" "C" "A" "T" "A" "C" "A" "G" "T" "G" "T" "G" "A"
## [6247] "G" "T" "A" "T" "A" "C" "T" "C" "A" "A" "C" "A" "A" "C" "T" "G" "T" "A"
## [6265] "C" "A" "A" "G" "T" "C" "G" "G" "G" "G" "A" "T" "A" "A" "T" "T" "T" "G"
## [6283] "T" "C" "G" "G" "A" "C" "G" "T" "G" "C" "A" "C" "A" "A" "A" "C" "T" "T"
## [6301] "T" "T" "T" "G" "T" "A" "A" "T" "C" "T" "T" "G" "G" "A" "C" "A" "T" "C"
## [6319] "T" "T" "A" "T" "T" "T" "G" "T" "G" "C" "G" "G" "T" "T" "C" "A" "T" "C"
## [6337] "C" "T" "C" "A" "T" "T" "C" "A" "A" "C" "T" "A" "G" "A" "C" "G" "T" "A"
## [6355] "C" "T" "T" "A" "T" "C" "G" "T" "T" "G" "T" "C" "C" "C" "T" "G" "A" "A"
## [6373] "G" "A" "C" "A" "C" "G" "T" "C" "A" "A" "T" "T" "G" "T" "G" "G" "G" "A"
## [6391] "C" "T" "A" "T" "T" "T" "C" "T" "T" "G" "T" "C" "G" "T" "T" "G" "G" "A"
## [6409] "C" "C" "A" "A" "T" "C" "T" "T" "C" "A" "T" "A" "A" "A" "C" "A" "A" "G"
## [6427] "G" "A" "C" "C" "A" "C" "A" "A" "T" "A" "T" "T" "G" "T" "G" "A" "C" "T"
## [6445] "G" "T" "G" "G" "T" "G" "G" "T" "T" "T" "T" "C" "T" "T" "G" "T" "A" "C"
## [6463] "C" "A" "C" "A" "T" "T" "A" "C" "A" "G" "T" "T" "C" "T" "T" "A" "G" "A"
## [6481] "G" "T" "T" "C" "A" "C" "A" "G" "A" "C" "A" "C" "C" "T" "A" "G" "T" "G"
## [6499] "C" "C" "T" "G" "T" "C" "G" "T" "A" "G" "T" "C" "A" "T" "C" "A" "C" "A"
## [6517] "G" "T" "A" "G" "T" "T" "A" "C" "A" "G" "A" "G" "A" "C" "G" "G" "T" "T"
## [6535] "T" "A" "A" "C" "A" "A" "C" "C" "T" "T" "T" "C" "C" "G" "T" "C" "T" "T"
## [6553] "T" "G" "A" "A" "A" "A" "A" "C" "A" "A" "T" "C" "T" "G" "A" "G" "T" "C"
## [6571] "A" "T" "T" "C" "T" "T" "G" "T" "G" "G" "A" "C" "A" "C" "G" "G" "A" "C"
## [6589] "A" "A" "T" "T" "T" "G" "G" "T" "A" "A" "C" "T" "T" "C" "A" "A" "C" "T"
## [6607] "T" "T" "A" "A" "C" "T" "G" "T" "G" "T" "A" "A" "A" "C" "A" "A" "A" "A"
## [6625] "A" "T" "T" "G" "G" "T" "T" "T" "A" "A" "T" "C" "A" "T" "C" "T" "G" "A"
## [6643] "A" "A" "A" "A" "T" "C" "C" "A" "G" "G" "T" "G" "T" "T" "T" "G" "T" "C"
## [6661] "A" "A" "C" "G" "A" "C" "C" "A" "C" "G" "T" "A" "C" "A" "T" "C" "T" "T"
## [6679] "C" "A" "A" "G" "T" "T" "T" "T" "C" "T" "T" "T" "C" "A" "T" "G" "A" "T"
## [6697] "G" "A" "T" "G" "A" "G" "A" "C" "A" "T" "A" "C" "C" "A" "A" "C" "C" "A"
## [6715] "T" "T" "G" "G" "T" "T" "G" "T" "G" "G" "T" "A" "T" "T" "C" "A" "C" "C"
## [6733] "C" "A" "A" "C" "C" "T" "T" "T" "G" "G" "T" "A" "T" "A" "C" "T" "A" "A"
## [6751] "C" "A" "T" "T" "T" "C" "C" "T" "T" "T" "C" "A" "T" "T" "G" "T" "T" "A"
## [6769] "A" "T" "T" "T" "T" "G" "G" "A" "A" "G" "T" "T" "G" "T" "G" "G" "T" "A"
## [6787] "A" "T" "G" "T" "T" "C" "C" "A" "C" "A" "C" "G" "A" "T" "G" "G" "C" "C"
## [6805] "G" "G" "A" "C" "T" "A" "T" "C" "T" "A" "A" "A" "G" "T" "C" "A" "A" "C"

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## [6823] "T" "T" "T" "A" "T" "A" "G" "A" "G" "A" "G" "A" "G" "T" "T" "T" "T" "C"
## [6841] "C" "A" "A" "A" "C" "T" "C" "T" "A" "A" "T" "C" "T" "G" "A" "A" "G" "G"
## [6859] "A" "T" "T" "T" "G" "T" "T" "A" "G" "A" "T" "A" "T" "G" "T" "C" "C" "A"
## [6877] "T" "T" "A" "A" "T" "A" "T" "T" "A" "A" "T" "G" "G" "T" "G" "G" "T" "T"
## [6895] "G" "G" "A" "A" "T" "C" "T" "T" "A" "G" "T" "T" "C" "T" "A" "A" "C" "A"
## [6913] "A" "T" "C" "T" "T" "A" "A" "G" "G" "T" "T" "C" "G" "A" "T" "A" "T" "T"
## [6931] "G" "C" "G" "T" "C" "G" "G" "A" "C" "A" "T" "T" "T" "T" "A" "G" "T" "A"
## [6949] "G" "A" "C" "C" "A" "T" "T" "A" "A" "A" "T" "A" "T" "T" "A" "A" "T" "A"
## [6967] "T" "T" "A" "G" "T" "C" "G" "T" "T" "A" "G" "A" "A" "A" "G" "G" "T" "C"
## [6985] "A" "A" "A" "C" "G" "G" "G" "A" "C" "C" "T" "C" "G" "C" "T" "A" "A" "A"
## [7003] "C" "A" "G" "A" "C" "T" "G" "A" "A" "G" "T" "A" "G" "T" "G" "G" "A" "G"
## [7021] "A" "T" "T" "A" "A" "T" "G" "T" "T" "T" "A" "C" "T" "T" "A" "G" "A" "C"
## [7039] "G" "T" "A" "T" "C" "T" "G" "T" "A" "A" "T" "C" "A" "T" "T" "T" "C" "G"
## [7057] "T" "C" "T" "C" "T" "A" "G" "T" "A" "A" "A" "T" "T" "A" "A" "A" "T" "C"
## [7075] "A" "T" "C" "C" "T" "C" "T" "G" "T" "G" "A" "G" "G" "T" "A" "T" "T" "G"
## [7093] "T" "G" "A" "A" "T" "T" "T" "T" "C" "A" "C" "C" "T" "T" "T" "T" "A" "C"
## [7111] "T" "A" "C" "G" "C" "C" "T" "T" "A" "A" "T" "A" "T" "A" "T" "C" "C" "T"
## [7129] "G" "T" "C" "T" "T" "A" "T" "T" "A" "G" "T" "C" "G" "T" "T" "G" "T" "G"
## [7147] "T" "C" "A" "A" "C" "G" "A" "C" "T" "A" "A" "G" "A" "G" "A" "A" "G" "G"
## [7165] "A" "C" "A" "A" "G" "G" "T" "T" "C" "G" "T" "A" "T" "T" "T" "G" "T" "C"
## [7183] "T" "A" "C" "G" "T" "T" "T" "A" "G" "A" "C" "C" "A" "C" "C" "G" "C" "A"
## [7201] "A" "T" "T" "T" "T" "T" "G" "A" "A" "G" "T" "G" "G" "T" "T" "T" "T" "C"
## [7219] "C" "C" "G" "T" "G" "T" "T" "C" "A" "A" "A" "C" "A" "T" "T" "A" "T" "A"
## [7237] "A" "T" "C" "C" "T" "T" "T" "A" "G" "A" "T" "T" "G" "T" "T" "A" "T" "C"
## [7255] "T" "A" "A" "G" "A" "C" "A" "A" "C" "C" "A" "A" "C" "C" "T" "G" "A" "G"
## [7273] "A" "T" "T" "T" "C" "A" "A" "T" "C" "T" "T" "C" "A" "A" "A" "C" "T" "A"
## [7291] "T" "C" "T" "A" "A" "G" "G" "A" "A" "A" "A" "A" "G" "A" "T" "G" "T" "C"
## [7309] "A" "C" "T" "T" "C" "C" "T" "A" "A" "A" "G" "T" "T" "G" "C" "A" "T" "G"
## [7327] "T" "G" "A" "A" "A" "C" "A" "A" "A" "G" "A" "C" "T" "C" "T" "C" "T" "C"
## [7345] "C" "C" "A" "G" "T" "T" "C" "A" "C" "G" "T" "G" "T" "C" "A" "G" "A" "T"
## [7363] "G" "T" "C" "G" "T" "A" "G" "A" "C" "A" "T" "T" "A" "C" "C" "A" "A" "G"
## [7381] "G" "T" "A" "A" "A" "A" "G" "T" "A" "A" "T" "A" "T" "A" "A" "A" "A" "T"
## [7399] "T" "A" "T" "C" "T" "T" "T" "T" "C" "A" "G" "G" "A" "T" "C" "C" "A" "A"
## [7417] "C" "T" "T" "C" "T" "A" "T" "T" "G" "G" "G" "T" "G" "T" "A" "T" "T" "A"
## [7435] "T" "T" "C" "G" "A" "C" "G" "T" "C" "G" "T" "G" "G" "T" "C" "G" "A" "C"
## [7453] "A" "G" "G" "T" "T" "G" "G" "A" "C" "T" "T" "C" "T" "T" "C" "T" "T" "A"
## [7471] "G" "T" "G" "G" "T" "C" "C" "T" "C" "A" "G" "T" "T" "T" "A" "T" "T" "G"
## [7489] "A" "A" "G" "A" "T" "A" "C" "A" "T" "T" "T" "C" "G" "T" "T" "C" "A" "T"
## [7507] "T" "T" "C" "A" "A" "A" "C" "T" "T" "T" "G" "G" "A" "T" "C" "A" "C" "T"
## [7525] "A" "C" "A" "A" "T" "T" "A" "T" "G" "G" "A" "T" "A" "A" "C" "C" "G" "T"
## [7543] "T" "T" "A" "G" "A" "T" "G" "G" "T" "T" "A" "C" "C" "A" "A" "G" "A" "T"
## [7561] "T" "T" "C" "G" "G" "C" "T" "T" "T" "T" "T" "G" "G" "G" "A" "C" "T" "C"
## [7579] "C" "C" "T" "C" "T" "A" "G" "T" "G" "C" "G" "T" "G" "A" "T" "T" "T" "A"
## [7597] "A" "T" "T" "A" "T" "C" "C" "G" "C" "A" "C" "A" "C" "G" "A" "A" "T" "C"
## [7615] "T" "T" "A" "T" "A" "T" "A" "A" "A" "A" "T" "T" "T" "T" "A" "T" "T" "G"
## [7633] "G" "T" "A" "G" "T" "T" "A" "T" "A" "A" "G" "A" "A" "T" "T" "T" "G" "T"
## [7651] "G" "T" "T" "T" "A" "A" "G" "G" "G" "A" "T" "T" "C" "T" "A" "A" "A" "A"
## [7669] "A" "C" "T" "T" "T" "A" "A" "T" "G" "G" "G" "A" "C" "A" "A" "A" "A" "G"
## [7687] "G" "A" "A" "G" "T" "T" "C" "C" "A" "G" "G" "T" "A" "T" "T" "C" "T" "T"
## [7705] "T" "T" "C" "C" "G" "A" "C" "T" "C" "T" "C" "T" "G" "T" "A" "T" "A" "A"
## [7723] "G" "T" "T" "T" "T" "C" "A" "C" "G" "T" "T" "A" "A" "T" "A" "A" "G" "C"
## [7741] "G" "T" "G" "A" "T" "C" "T" "T" "A" "T" "T" "T" "G" "A" "G" "A" "C" "T"
## [7759] "T" "G" "A" "G" "T" "G" "A" "A" "A" "G" "G" "T" "A" "G" "G" "T" "T" "G"
## [7777] "A" "A" "A" "A" "C" "A" "A" "C" "A" "A" "A" "A" "A" "C" "A" "C" "C" "A"

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## [7795] "T" "T" "T" "G" "T" "G" "G" "G" "T" "T" "T" "T" "T" "A" "C" "C" "T" "A"
## [7813] "G" "T" "A" "A" "T" "G" "T" "T" "T" "T" "A" "A" "C" "T" "T" "T" "A" "A"
## [7831] "G" "T" "G" "T" "C" "T" "G" "A" "A" "A" "T" "T" "A" "T" "T" "G" "T" "T"
## [7849] "G" "T" "A" "A" "T" "C" "A" "T" "C" "G" "C" "A" "A" "T" "A" "A" "T" "T"
## [7867] "G" "T" "T" "A" "T" "T" "C" "A" "T" "C" "C" "C" "T" "G" "A" "C" "C" "C"
## [7885] "A" "G" "A" "A" "G" "C" "T" "T" "A" "G" "A" "T" "T" "T" "C" "A" "T" "C"
## [7903] "A" "T" "G" "G" "T" "T" "T" "T" "T" "A" "G" "G" "T" "C" "G" "G" "A" "G"
## [7921] "A" "A" "T" "A" "A" "T" "A" "C" "A" "A" "T" "C" "T" "G" "A" "A" "G" "A"
## [7939] "G" "T" "C" "A" "C" "C" "T" "T" "C" "G" "T" "T" "T" "T" "A" "T" "T" "T"
## [7957] "G" "T" "G" "G" "T" "A" "G" "T" "A" "A" "T" "T" "T" "A" "C" "C" "A" "T"
## [7975] "C" "C" "T" "G" "T" "C" "C" "C" "A" "A" "T" "A" "G" "T" "T" "T" "G" "G"
## [7993] "A" "G" "A" "A" "T" "C" "A" "T" "G" "G" "T" "A" "A" "C" "C" "A" "G" "G"
## [8011] "G" "T" "C" "T" "C" "T" "A" "T" "C" "G" "T" "A" "C" "C" "T" "T" "G" "G"
## [8029] "T" "T" "C" "A" "T" "T" "G" "T" "A" "A" "C" "C" "T" "T" "T" "T" "C" "T"
## [8047] "T" "T" "C" "C" "A" "T" "T" "C" "T" "T" "G" "T" "T" "C" "A" "G" "G" "A"
## [8065] "C" "T" "C" "A" "A" "C" "T" "T" "A" "C" "A" "T" "T" "T" "T" "G" "A" "C"
## [8083] "T" "C" "C" "T" "A" "G" "A" "C" "T" "T" "T" "T" "G" "A" "A" "A" "C" "A"
## [8101] "G" "T" "C" "C" "C" "A" "T" "T" "A" "T" "T" "T" "G" "T" "G" "G" "T" "G"
## [8119] "C" "A" "C" "A" "C" "T" "T" "T" "C" "T" "T" "A" "A" "T" "C" "A" "C" "A"
## [8137] "T" "A" "C" "G" "T" "C" "C" "C" "C" "C" "A" "T" "T" "A" "A" "C" "T" "C"
## [8155] "A" "A" "G" "A" "C" "C" "A" "A" "C" "A" "T" "T" "C" "T" "A" "A" "T" "T"
## [8173] "G" "T" "G" "T" "G" "A" "C" "T" "G" "A" "T" "C" "T" "C" "T" "G" "A" "T"
## [8191] "C" "A" "C" "C" "G" "T" "T" "A" "T" "T" "T" "T" "G" "T" "T" "C" "T" "T"
## [8209] "T" "T" "T" "G" "T" "T" "T" "G" "T" "A" "A" "C" "A" "A" "G" "C" "A" "A"
## [8227] "A" "T" "C" "A" "A" "C" "A" "A" "T" "T" "G" "T" "T" "C" "T" "T" "G" "T"
## [8245] "A" "G" "T" "G" "A" "T" "C" "T" "T" "T" "A" "T" "T" "G" "T" "T" "G" "A"
## [8263] "G" "A" "C" "A" "A" "C" "A" "A" "A" "A" "G" "A" "G" "A" "T" "T" "A" "A"
## [8281] "T" "A" "T" "T" "C" "A" "G" "A" "T" "G" "G" "A" "A" "A" "T" "G" "A" "T"
## [8299] "T" "C" "T" "T" "C" "T" "C" "T" "A" "T" "T" "T" "T" "A" "G" "T" "A" "T"
## [8317] "A" "G" "T" "A" "A" "C" "T" "A" "A" "A" "C" "T" "G" "G" "A" "A" "G" "A"
## [8335] "A" "A" "A" "T" "T" "T" "C" "T" "G" "T" "A" "T" "T" "G" "T" "C" "G" "T"
## [8353] "C" "A" "T" "G" "G" "G" "G" "A" "A" "T" "T" "A" "A" "A" "T" "T" "C" "C"
## [8371] "C" "C" "T" "T" "T" "A" "A" "A" "T" "G" "A" "G" "T" "A" "C" "A" "G" "T"
## [8389] "T" "T" "A" "T" "T" "T" "C" "T" "T" "A" "T" "C" "C" "T" "T" "C" "T" "G"
## [8407] "T" "T" "G" "A" "C" "T" "T" "A" "A" "C" "C" "T" "A" "A" "A" "C" "A" "T"
## [8425] "A" "A" "G" "G" "A" "G" "G" "T" "T" "T" "T" "A" "T" "A" "C" "A" "T" "T"
## [8443] "A" "A" "A" "C" "G" "T" "A" "C" "G" "T" "A" "C" "T" "G" "T" "A" "T" "T"
## [8461] "G" "G" "T" "A" "G" "A" "T" "A" "A" "A" "C" "A" "A" "G" "C" "A" "A" "A"
## [8479] "C" "C" "A" "A" "A" "C" "G" "G" "T" "T" "C" "T" "A" "T" "T" "A" "A" "T"
## [8497] "G" "T" "A" "G" "G" "T" "T" "A" "A" "T" "T" "T" "T" "A" "C" "G" "A"
## [8515] "A" "G" "T" "C" "T" "A" "C" "T" "A" "C" "T" "G" "C" "G" "T" "A" "A" "G"
## [8533] "T" "G" "T" "A" "A" "T" "C" "A" "T" "T" "G" "T" "T" "T" "C" "C" "G" "A"
## [8551] "C" "A" "G" "G" "T" "G" "G" "T" "A" "C" "G" "C" "T" "T" "C" "A" "C" "A"
## [8569] "G" "G" "G" "T" "A" "C" "T" "C" "G" "A" "A" "T" "A" "T" "T" "T" "C" "T"
## [8587] "A" "G" "T" "C" "G" "T" "A" "A" "G" "G" "T" "T" "C" "T" "T" "A" "C" "A"
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## [8623] "T" "G" "C" "C" "T" "T" "G" "G" "A" "G" "G" "T" "T" "C" "T" "C" "G" "A"
## [8641] "T" "C" "G" "A" "A" "A" "A" "C" "A" "A" "C" "A" "T" "A" "T" "T" "T" "G"
## [8659] "G" "G" "T" "G" "T" "T" "T" "A" "C" "A" "T" "T" "C" "A" "C" "T" "T" "T"
## [8677] "T" "T" "T" "G" "G" "G" "A" "G" "A" "A" "A" "T" "C" "T" "C" "A" "G" "T"
## [8695] "A" "A" "A" "A" "G" "A" "A" "A" "A" "C" "A" "T" "T" "G" "T" "A" "A" "A"
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## [8731] "T" "A" "T" "A" "G" "T" "G" "A" "T" "T" "A" "T" "T" "A" "C" "T" "C" "T"
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## [8767] "A" "C" "A" "T" "G" "T" "C" "A" "A" "C" "G" "T" "G" "T" "T" "A" "G" "T"
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## [8893] "G" "G" "A" "A" "A" "T" "A" "G" "T" "C" "T" "T" "G" "G" "T" "C" "G" "T"
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## [8947] "T" "T" "A" "C" "A" "A" "T" "T" "A" "C" "A" "C" "A" "A" "A" "T" "T" "T"
## [8965] "A" "T" "A" "A" "C" "T" "G" "T" "G" "T" "C" "A" "A" "C" "T" "C" "A" "T"
## [8983] "A" "T" "A" "A" "A" "A" "C" "G" "C" "T" "G" "T" "A" "A" "G" "T" "A" "G"
## [9001] "T" "A" "A" "T" "A" "C" "G" "G" "A" "A" "A" "T" "C" "C" "A" "T" "T" "A"
## [9019] "C" "A" "A" "C" "G" "T" "G" "A" "T" "A" "G" "T" "G" "G" "T" "A" "T" "T"
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## [9055] "A" "G" "A" "T" "T" "A" "T" "C" "G" "T" "A" "A" "G" "A" "A" "A" "C" "G"
## [9073] "T" "A" "A" "A" "A" "C" "A" "T" "T" "T" "C" "T" "A" "A" "T" "C" "C" "G"
## [9091] "T" "A" "T" "C" "G" "T" "T" "G" "T" "G" "G" "G" "C" "C" "A" "A" "C" "G"
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## [9163] "G" "T" "G" "G" "T" "T" "T" "C" "G" "T" "A" "T" "T" "T" "A" "C" "T" "T"
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## [9217] "C" "T" "T" "T" "G" "A" "T" "G" "T" "C" "T" "A" "T" "T" "T" "A" "G" "A"
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## [9487] "A" "T" "G" "G" "C" "A" "A" "G" "T" "T" "A" "C" "T" "T" "A" "A" "G" "T"
## [9505] "A" "G" "G" "T" "A" "T" "C" "G" "A" "T" "T" "A" "A" "G" "A" "T" "T" "C"
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## [9577] "C" "A" "T" "T" "T" "C" "A" "T" "T" "C" "A" "A" "A" "G" "T" "C" "C" "A"
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## [9631] "A" "A" "C" "T" "T" "G" "A" "C" "A" "C" "A" "A" "A" "A" "A" "T" "G" "C"
## [9649] "C" "G" "A" "A" "G" "A" "G" "G" "T" "T" "A" "A" "T" "T" "A" "C" "A" "C"
## [9667] "T" "G" "A" "G" "G" "T" "A" "A" "T" "T" "C" "T" "G" "A" "T" "C" "G" "A"
## [9685] "A" "C" "A" "A" "A" "C" "C" "C" "T" "G" "G" "A" "T" "G" "T" "C" "T" "A"
## [9703] "C" "C" "A" "A" "C" "A" "T" "T" "T" "G" "G" "A" "A" "A" "T" "T" "G" "T"
## [9721] "G" "A" "T" "G" "G" "A" "A" "G" "A" "C" "A" "T" "T" "A" "T" "T" "C" "T"

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## [9739] "T" "G" "T" "G" "G" "T" "A" "A" "T" "G" "C" "C" "C" "G" "T" "A" "A" "A"
## [9757] "G" "A" "T" "T" "T" "A" "T" "T" "C" "A" "G" "A" "T" "G" "A" "A" "C" "T"
## [9775] "G" "G" "T" "A" "G" "T" "T" "G" "A" "G" "A" "T" "G" "G" "T" "A" "G" "T"
## [9793] "T" "T" "T" "T" "T" "C" "T" "G" "T" "C" "A" "C" "T" "C" "A" "C" "C" "A"
## [9811] "C" "G" "T" "G" "T" "T" "T" "A" "G" "C" "A" "A" "A" "G" "T" "C" "A" "A"
## [9829] "C" "C" "A" "A" "A" "G" "A" "A" "C" "C" "G" "A" "T" "A" "C" "A" "G" "T"
## [9847] "C" "A" "G" "T" "A" "T" "C" "T" "T" "G" "T" "T" "T" "G" "T" "G" "G" "T"
## [9865] "T" "A" "T" "C" "A" "T" "C" "T" "A" "T" "A" "T" "A" "C" "A" "C" "G" "A"
## [9883] "C" "C" "T" "C" "G" "T" "A" "G" "A" "G" "A" "A" "A" "A" "C" "A" "T" "C"
## [9901] "A" "G" "G" "G" "T" "C" "T" "A" "G" "T" "G" "T" "C" "A" "T" "A" "A" "T"
## [9919] "C" "G" "T" "C" "G" "T" "T" "A" "C" "A" "G" "G" "T" "G" "T" "G" "G" "G"
## [9937] "T" "T" "T" "A" "A" "T" "A" "A" "C" "T" "C" "A" "T" "A" "A" "A" "A" "G"
## [9955] "T" "G" "G" "A" "G" "A" "C" "C" "A" "T" "G" "A" "C" "C" "A" "A" "A" "T"
## [9973] "T" "A" "C" "A" "A" "C" "G" "C" "G" "A" "A" "T" "C" "G" "G" "G" "T" "T"
## [9991] "T" "C" "G" "A" "G" "T" "T" "T" "A" "C" "G" "A" "T" "G" "T" "A" "A" "T"
## [10009] "T" "G" "T" "C" "C" "A" "T" "T" "A" "C" "A" "A" "C" "A" "A" "A" "A" "T"
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## [10081] "T" "A" "C" "T" "A" "T" "C" "T" "T" "T" "G" "A" "C" "C" "A" "T" "G" "A"
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## [10189] "A" "A" "T" "A" "T" "T" "C" "A" "T" "A" "G" "T" "T" "T" "A" "A" "C" "A"
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## [10477] "A" "A" "A" "T" "G" "T" "A" "T" "G" "T" "T" "T" "G" "A" "C" "G" "G" "T"
## [10495] "G" "G" "T" "A" "G" "T" "G" "T" "T" "G" "G" "T" "C" "C" "G" "T" "T" "C"
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## [10531] "G" "A" "T" "C" "A" "C" "A" "G" "T" "T" "T" "A" "G" "A" "T" "G" "T" "T"
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## [10711] "C" "G" "A" "A" "C" "T" "C" "C" "A" "T" "G" "T" "G" "T" "G" "A" "A" "T"
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## [13213] "C" "A" "A" "C" "G" "T" "T" "A" "A" "C" "G" "T" "A" "A" "T" "T" "T" "C"
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## [13285] "G" "G" "T" "A" "A" "T" "C" "G" "T" "G" "T" "G" "T" "T" "A" "C" "C" "T"
## [13303] "T" "T" "T" "G" "A" "T" "T" "A" "C" "C" "C" "A" "C" "C" "A" "A" "A" "T"
## [13321] "A" "C" "A" "C" "T" "A" "A" "A" "T" "G" "T" "T" "A" "T" "T" "A" "T" "C"
## [13339] "G" "A" "G" "T" "A" "T" "G" "G" "A" "G" "G" "A" "T" "T" "C" "A" "T" "T"
## [13357] "T" "C" "A" "A" "C" "T" "C" "A" "G" "T" "G" "T" "A" "G" "A" "C" "A" "C"
## [13375] "T" "G" "T" "A" "G" "T" "G" "T" "T" "G" "G" "A" "C" "C" "T" "C" "G" "T"
## [13393] "A" "A" "C" "G" "T" "T" "T" "G" "T" "A" "T" "G" "C" "C" "T" "A" "A" "T"
## [13411] "T" "G" "T" "C" "T" "G" "T" "T" "C" "T" "G" "A" "T" "T" "A" "A" "A" "T"
## [13429] "A" "C" "A" "C" "T" "A" "C" "A" "A" "C" "T" "A" "T" "A" "C" "T" "G" "T"
## [13447] "A" "C" "C" "A" "G" "C" "A" "T" "T" "G" "T" "C" "G" "T" "A" "A" "A" "T"
## [13465] "G" "T" "T" "G" "T" "A" "T" "T" "C" "T" "T" "A" "C" "C" "A" "G" "A" "T"
## [13483] "G" "C" "A" "T" "A" "C" "G" "T" "T" "C" "G" "T" "G" "G" "T" "G" "T" "A"
## [13501] "G" "A" "A" "T" "T" "A" "C" "T" "T" "C" "A" "G" "A" "C" "A" "C" "T" "T"
## [13519] "A" "A" "C" "G" "T" "T" "T" "C" "T" "T" "G" "T" "G" "T" "T" "C" "G" "G"
## [13537] "G" "G" "T" "T" "G" "T" "C" "G" "G" "A" "C" "A" "T" "T" "C" "T" "G" "A"
## [13555] "C" "A" "T" "A" "C" "G" "C" "C" "A" "C" "A" "C" "A" "T" "G" "T" "A" "T"
## [13573] "C" "G" "G" "A" "G" "T" "A" "T" "T" "T" "T" "G" "A" "G" "T" "C" "C" "A"
## [13591] "A" "G" "G" "G" "T" "T" "A" "T" "G" "G" "A" "A" "C" "T" "C" "C" "A" "C"
## [13609] "A" "A" "T" "A" "G" "T" "A" "A" "T" "C" "A" "T" "T" "C" "G" "T" "A" "T"

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## [13627] "T" "G" "T" "C" "T" "T" "A" "T" "G" "T" "A" "C" "A" "G" "A" "T" "T" "G"
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## [13681] "A" "T" "A" "A" "C" "A" "T" "T" "C" "A" "T" "G" "T" "T" "T" "A" "C" "T"
## [13699] "T" "T" "C" "T" "G" "T" "A" "G" "T" "C" "G" "T" "A" "T" "G" "A" "G" "G"
## [13717] "A" "C" "T" "A" "A" "T" "C" "C" "T" "A" "C" "A" "A" "A" "T" "C" "A" "T"
## [13735] "T" "C" "A" "C" "C" "C" "A" "T" "T" "C" "G" "T" "A" "G" "A" "T" "A" "T"
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## [13825] "G" "G" "A" "T" "C" "C" "T" "A" "A" "G" "A" "A" "C" "T" "A" "C" "C" "T"
## [13843] "A" "G" "A" "C" "C" "C" "A" "T" "T" "C" "C" "T" "T" "C" "C" "A" "T" "G"
## [13861] "T" "G" "T" "A" "T" "T" "A" "G" "T" "A" "G" "T" "G" "G" "G" "A" "C" "A"
## [13879] "A" "A" "T" "T" "G" "A" "T" "C" "G" "T" "A" "A" "C" "A" "T" "A" "C" "A"
## [13897] "A" "C" "T" "C" "T" "C" "G" "T" "T" "T" "T" "A" "A" "G" "T" "A" "C" "T"
## [13915] "C" "C" "A" "G" "G" "A" "A" "A" "T" "C" "A" "T" "T" "C" "C" "A" "G" "T"
## [13933] "C" "A" "G" "A" "G" "T" "C" "A" "G" "G" "T" "T" "G" "T" "A" "A" "A" "A"
## [13951] "C" "G" "A" "A" "G" "T" "C" "T" "G" "T" "A" "T" "T" "T" "T" "T" "G" "T"
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## [13987] "T" "G" "A" "C" "T" "G" "A" "A" "T" "T" "T" "C" "A" "A" "G" "A" "A" "A"
## [14005] "T" "A" "C" "G" "A" "T" "C" "G" "G" "T" "G" "A" "T" "C" "T" "G" "G" "A"
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## [14041] "A" "A" "C" "T" "T" "T" "G" "T" "G" "T" "G" "T" "T" "G" "T" "C" "G" "T"
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## [14113] "A" "A" "G" "T" "G" "T" "T" "T" "C" "A" "G" "A" "C" "A" "C" "A" "G" "T"
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## [14311] "C" "C" "A" "A" "A" "T" "T" "G" "T" "A" "T" "A" "T" "C" "A" "C" "T" "T"
## [14329] "G" "G" "C" "G" "G" "T" "G" "T" "G" "T" "A" "C" "T" "G" "G" "T" "A" "A"
## [14347] "A" "G" "T" "G" "A" "G" "T" "T" "A" "T" "G" "A" "A" "C" "T" "C" "G" "T"
## [14365] "G" "T" "G" "A" "G" "T" "A" "A" "T" "C" "G" "A" "T" "T" "A" "G" "A" "T"
## [14383] "A" "T" "C" "T" "T" "T" "G" "C" "C" "A" "C" "A" "C" "T" "G" "T" "T" "C"
## [14401] "G" "A" "T" "G" "T" "T" "G" "T" "G" "C" "A" "A" "C" "A" "T" "A" "C" "A"
## [14419] "A" "A" "C" "G" "C" "T" "C" "G" "T" "T" "C" "T" "T" "G" "T" "T" "C" "A"
## [14437] "C" "T" "C" "C" "G" "G" "T" "A" "T" "T" "A" "A" "G" "A" "T" "T" "C" "G"
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## [14491] "G" "T" "T" "G" "G" "G" "T" "A" "T" "T" "C" "T" "A" "C" "T" "C" "C" "C"
## [14509] "A" "A" "A" "A" "G" "A" "T" "G" "T" "A" "G" "T" "G" "A" "T" "A" "T" "T"
## [14527] "T" "G" "T" "C" "A" "A" "A" "A" "A" "T" "T" "G" "T" "A" "C" "A" "A" "C"
## [14545] "A" "C" "G" "G" "T" "T" "G" "G" "T" "G" "G" "T" "A" "T" "C" "T" "T" "A"
## [14563] "A" "A" "C" "G" "A" "A" "C" "A" "A" "G" "G" "T" "T" "A" "A" "T" "G" "A"
## [14581] "T" "G" "T" "C" "A" "T" "C" "G" "A" "G" "G" "A" "G" "A" "T" "C" "A" "C"

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## [14599] "C" "G" "C" "C" "G" "A" "T" "A" "A" "C" "T" "A" "A" "A" "G" "T" "T" "A"
## [14617] "T" "T" "A" "A" "A" "A" "A" "C" "T" "A" "C" "T" "T" "T" "G" "A" "C" "A"
## [14635] "G" "A" "T" "A" "A" "C" "C" "A" "G" "T" "A" "T" "C" "A" "T" "G" "A" "T"
## [14653] "G" "T" "C" "T" "A" "T" "C" "T" "C" "T" "G" "T" "G" "G" "T" "C" "G" "A"
## [14671] "T" "G" "C" "C" "A" "C" "G" "C" "T" "C" "G" "A" "G" "A" "C" "A" "A" "G"
## [14689] "A" "A" "A" "C" "G" "T" "G" "A" "T" "T" "A" "C" "C" "G" "T" "A" "T" "G"
## [14707] "A" "A" "T" "T" "C" "T" "A" "A" "G" "T" "A" "A" "A" "C" "T" "C" "A" "A"
## [14725] "T" "A" "T" "C" "A" "T" "C" "C" "C" "T" "A" "C" "T" "G" "T" "A" "A" "T"
## [14743] "G" "C" "A" "A" "A" "A" "C" "A" "T" "A" "T" "A" "C" "G" "C" "T" "T" "T"
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## [14779] "A" "T" "T" "G" "A" "G" "T" "A" "A" "C" "T" "T" "A" "G" "T" "A" "T" "T"
## [14797] "A" "T" "T" "T" "C" "A" "G" "A" "T" "C" "G" "G" "A" "A" "T" "G" "G" "G"
## [14815] "G" "T" "A" "A" "A" "T" "A" "A" "T" "T" "T" "A" "C" "C" "T" "T" "T" "T"
## [14833] "G" "G" "T" "C" "G" "A" "C" "T" "A" "A" "A" "C" "A" "G" "A" "T" "C" "C"
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## [14869] "A" "A" "T" "C" "G" "T" "A" "A" "T" "T" "A" "T" "G" "T" "C" "G" "G" "T"
## [14887] "G" "G" "T" "A" "G" "C" "A" "T" "T" "G" "T" "T" "A" "G" "T" "T" "T" "C"
## [14905] "A" "T" "G" "A" "A" "T" "A" "G" "T" "T" "G" "T" "T" "G" "A" "A" "G" "T"
## [14923] "T" "G" "A" "T" "G" "T" "T" "T" "A" "T" "C" "A" "T" "C" "A" "A" "C" "A"
## [14941] "G" "A" "C" "T" "A" "T" "A" "G" "T" "G" "T" "G" "T" "A" "A" "C" "A" "A"
## [14959] "C" "C" "A" "T" "C" "T" "A" "A" "T" "A" "T" "T" "G" "C" "T" "A" "T" "C"
## [14977] "A" "T" "C" "A" "G" "T" "A" "T" "T" "A" "G" "C" "G" "A" "C" "T" "A" "T"
## [14995] "C" "G" "T" "C" "G" "T" "A" "A" "T" "G" "G" "T" "A" "G" "G" "A" "C" "T"
## [15013] "C" "G" "T" "T" "T" "C" "T" "T" "C" "T" "T" "C" "A" "C" "A" "A" "A" "A"
## [15031] "T" "T" "A" "A" "G" "T" "T" "G" "T" "C" "T" "T" "G" "A" "A" "G" "G" "A"
## [15049] "A" "G" "G" "A" "A" "T" "T" "T" "C" "T" "T" "T" "G" "G" "G" "A" "A" "T"
## [15067] "C" "T" "G" "T" "G" "T" "C" "G" "T" "T" "T" "C" "A" "G" "T" "A" "T" "C"
## [15085] "T" "T" "C" "A" "G" "A" "A" "A" "C" "A" "A" "T" "T" "T" "T" "A" "A" "T"
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## [15211] "A" "G" "T" "C" "G" "T" "C" "G" "T" "A" "T" "G" "T" "G" "T" "T" "C" "A"
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## [15283] "T" "G" "T" "G" "G" "A" "T" "C" "G" "A" "G" "A" "G" "A" "C" "T" "T" "C"
## [15301] "A" "C" "C" "A" "T" "A" "G" "G" "T" "C" "A" "A" "C" "T" "T" "T" "G" "A"
## [15319] "T" "G" "T" "T" "T" "A" "C" "C" "T" "T" "G" "T" "G" "G" "T" "A" "G" "T"
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## [15481] "T" "T" "T" "A" "T" "T" "G" "C" "C" "A" "G" "T" "T" "T" "C" "T" "C" "A"
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## [15571] "T" "G" "T" "A" "C" "A" "C" "T" "G" "A" "G" "A" "C" "G" "T" "C" "A" "A"
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## [17965] "C" "A" "A" "A" "C" "G" "G" "T" "G" "G" "T" "T" "G" "T" "G" "G" "G" "T"
## [17983] "T" "G" "T" "T" "A" "A" "A" "T" "T" "A" "C" "A" "A" "C" "T" "C" "A" "A"
## [18001] "A" "C" "T" "T" "C" "C" "G" "T" "A" "G" "A" "T" "A" "C" "G" "A" "T" "A"
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## [18037] "G" "G" "A" "C" "A" "C" "T" "T" "A" "A" "G" "T" "A" "T" "A" "T" "A" "G"
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## [18073] "G" "A" "T" "T" "C" "A" "T" "T" "A" "G" "T" "A" "T" "T" "T" "G" "T" "G"
## [18091] "G" "T" "T" "C" "T" "C" "A" "G" "T" "C" "A" "G" "A" "T" "T" "T" "C" "A"
## [18109] "T" "C" "G" "C" "C" "A" "A" "C" "T" "C" "A" "T" "T" "T" "G" "T" "T" "T"
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## [18163] "T" "T" "G" "T" "T" "A" "T" "T" "T" "G" "A" "T" "C" "G" "T" "A" "A" "T"
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## [18199] "G" "T" "C" "A" "A" "T" "A" "C" "T" "T" "C" "T" "T" "T" "T" "A" "T" "C"
## [18217] "C" "C" "G" "T" "T" "A" "T" "G" "A" "G" "T" "T" "G" "T" "G" "T" "G" "T"
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## [18253] "G" "G" "T" "T" "T" "T" "T" "G" "T" "A" "C" "T" "G" "T" "C" "A" "A" "C"
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## [18325] "A" "C" "C" "G" "A" "A" "C" "T" "A" "G" "A" "T" "T" "T" "C" "G" "T" "A"
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## [18361] "T" "T" "T" "G" "C" "T" "C" "A" "C" "A" "G" "T" "T" "C" "T" "G" "T" "A"
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## [18397] "A" "G" "G" "A" "T" "C" "G" "T" "G" "G" "T" "A" "G" "T" "A" "G" "T" "A"
## [18415] "T" "G" "T" "G" "T" "C" "A" "A" "G" "A" "A" "C" "G" "A" "C" "A" "G" "T"
## [18433] "A" "T" "T" "C" "C" "T" "A" "A" "T" "C" "A" "T" "T" "G" "T" "G" "A" "T"
## [18451] "G" "T" "C" "G" "A" "C" "T" "A" "C" "G" "T" "A" "T" "G" "T" "A" "T" "T"
## [18469] "G" "T" "G" "T" "C" "A" "G" "A" "A" "A" "A" "T" "C" "G" "A" "A" "G" "T"

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## [18487] "T" "T" "G" "A" "T" "C" "A" "T" "A" "G" "T" "T" "G" "G" "T" "A" "T" "A"
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## [18541] "C" "G" "T" "A" "T" "A" "T" "C" "T" "G" "G" "T" "A" "T" "A" "A" "T" "T"
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## [18739] "T" "T" "C" "A" "G" "T" "T" "T" "T" "A" "A" "C" "A" "C" "T" "C" "A" "T"
## [18757] "T" "G" "T" "T" "G" "G" "T" "C" "A" "C" "C" "A" "C" "A" "C" "A" "T" "G"
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## [18793] "G" "A" "C" "G" "T" "G" "A" "A" "A" "C" "C" "T" "T" "T" "C" "A" "T" "T"
## [18811] "G" "T" "G" "G" "A" "C" "T" "C" "G" "T" "A" "A" "C" "A" "G" "A" "T" "T"
## [18829] "G" "T" "T" "G" "T" "A" "G" "T" "T" "T" "T" "C" "C" "A" "C" "A" "T" "T"
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## [18883] "C" "A" "G" "G" "T" "A" "A" "G" "T" "A" "T" "G" "G" "T" "A" "A" "A" "A"
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## [19081] "A" "T" "T" "G" "T" "C" "G" "T" "C" "G" "C" "A" "T" "G" "T" "T" "G" "G"
## [19099] "T" "T" "C" "G" "A" "T" "T" "T" "T" "G" "T" "A" "A" "T" "T" "G" "A" "C"
## [19117] "A" "T" "T" "A" "T" "C" "A" "A" "C" "A" "C" "A" "G" "G" "C" "A" "T" "G"
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## [19225] "A" "T" "A" "C" "C" "A" "C" "G" "T" "A" "C" "A" "T" "T" "G" "T" "T" "T"
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## [19333] "G" "T" "G" "T" "A" "A" "C" "C" "A" "T" "T" "T" "G" "T" "G" "G" "T" "C"
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## [19369] "T" "T" "C" "G" "A" "T" "T" "G" "T" "G" "A" "C" "T" "T" "T" "T" "T" "C"
## [19387] "A" "G" "A" "C" "A" "G" "G" "A" "C" "C" "A" "A" "C" "T" "T" "A" "C" "G"
## [19405] "C" "T" "T" "G" "T" "T" "T" "G" "A" "A" "T" "A" "T" "G" "A" "A" "T" "C"
## [19423] "C" "A" "C" "A" "G" "A" "A" "T" "C" "C" "T" "A" "A" "C" "C" "G" "A" "C"
## [19441] "A" "T" "A" "G" "T" "T" "G" "G" "A" "A" "T" "T" "C" "G" "A" "A" "T" "T"

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## [19459] "C" "A" "T" "G" "T" "G" "T" "T" "A" "A" "A" "A" "C" "G" "T" "A" "T" "C"
## [19477] "T" "T" "A" "C" "A" "G" "G" "T" "T" "A" "T" "T" "G" "G" "G" "A" "C" "T"
## [19495] "C" "A" "A" "C" "T" "T" "G" "T" "A" "A" "T" "G" "G" "T" "C" "G" "G" "A"
## [19513] "C" "A" "T" "G" "G" "T" "T" "C" "T" "T" "T" "A" "A" "T" "A" "C" "T" "A"
## [19531] "A" "T" "C" "T" "G" "A" "A" "T" "G" "C" "T" "T" "A" "C" "T" "C" "A" "T"
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## [19567] "A" "T" "T" "C" "G" "T" "A" "C" "A" "G" "A" "A" "G" "T" "C" "T" "C" "C"
## [19585] "A" "C" "G" "T" "C" "T" "A" "G" "T" "G" "T" "A" "C" "A" "G" "A" "A" "C"
## [19603] "C" "T" "G" "T" "C" "A" "T" "T" "T" "G" "A" "T" "G" "C" "A" "G" "T" "A"
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## [19639] "C" "A" "C" "A" "T" "C" "A" "A" "C" "A" "T" "G" "G" "T" "G" "T" "T" "C"
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## [19747] "C" "A" "C" "C" "A" "C" "C" "A" "A" "C" "C" "A" "T" "T" "T" "C" "T" "T"
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## [19819] "G" "T" "C" "G" "A" "A" "G" "A" "G" "A" "C" "A" "T" "C" "G" "A" "T" "C"
## [19837] "A" "A" "C" "A" "T" "A" "G" "G" "T" "A" "A" "C" "G" "A" "G" "G" "T" "G"
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## [20305] "A" "T" "T" "T" "G" "G" "A" "G" "T" "A" "T" "T" "T" "T" "A" "T" "C" "A"
## [20323] "T" "C" "C" "G" "T" "T" "C" "C" "G" "T" "A" "C" "A" "A" "T" "G" "A" "T"
## [20341] "G" "C" "T" "A" "T" "C" "G" "A" "T" "G" "T" "T" "A" "T" "G" "G" "T" "G"
## [20359] "G" "T" "C" "G" "A" "T" "G" "A" "T" "A" "T" "C" "T" "A" "C" "G" "A" "C"
## [20377] "T" "A" "T" "A" "C" "A" "G" "G" "T" "T" "T" "C" "G" "T" "G" "G" "T" "T"
## [20395] "A" "T" "C" "C" "A" "A" "C" "T" "T" "A" "A" "T" "C" "A" "C" "C" "A" "C"
## [20413] "A" "T" "T" "T" "G" "T" "A" "T" "A" "A" "T" "C" "A" "T" "T" "C" "A" "T"

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## [20431] "T" "T" "A" "A" "A" "T" "G" "T" "C" "G" "T" "A" "G" "A" "T" "G" "T" "G"
## [20449] "G" "T" "G" "T" "C" "T" "T" "T" "T" "G" "A" "G" "G" "A" "C" "C" "A" "T"
## [20467] "T" "T" "C" "T" "A" "G" "A" "C" "A" "T" "T" "A" "T" "T" "A" "G" "T" "A"
## [20485] "A" "C" "A" "A" "T" "T" "C" "A" "T" "G" "G" "G" "T" "A" "G" "A" "T" "G"
## [20503] "G" "T" "G" "A" "T" "C" "A" "T" "C" "T" "A" "T" "G" "T" "G" "T" "T" "T"
## [20521] "G" "T" "G" "G" "T" "C" "G" "A" "A" "G" "A" "C" "T" "A" "G" "A" "A" "A"
## [20539] "G" "T" "G" "T" "T" "C" "A" "C" "G" "G" "C" "A" "C" "G" "G" "A" "T" "G"
## [20557] "T" "C" "A" "T" "G" "A" "G" "T" "C" "T" "T" "A" "G" "T" "T" "T" "T" "C"
## [20575] "A" "A" "C" "A" "A" "T" "G" "G" "T" "G" "A" "G" "A" "T" "T" "G" "T" "C"
## [20593] "T" "T" "G" "G" "A" "A" "G" "T" "T" "C" "C" "A" "T" "C" "C" "A" "C" "A"
## [20611] "A" "T" "C" "C" "T" "T" "T" "A" "A" "C" "T" "T" "A" "T" "T" "A" "T" "C"
## [20629] "T" "C" "G" "G" "T" "A" "G" "G" "T" "A" "C" "T" "C" "G" "T" "G" "T" "A"
## [20647] "T" "T" "G" "C" "A" "C" "A" "C" "A" "G" "T" "C" "C" "C" "G" "C" "A" "T"
## [20665] "T" "T" "G" "A" "A" "A" "G" "T" "A" "T" "T" "C" "G" "T" "T" "G" "T" "C"
## [20683] "T" "T" "G" "G" "A" "A" "G" "A" "T" "C" "A" "T" "G" "T" "A" "A" "C" "C"
## [20701] "A" "T" "A" "G" "T" "A" "T" "T" "G" "T" "T" "A" "T" "A" "C" "C" "A" "T"
## [20719] "G" "A" "C" "C" "G" "A" "A" "T" "G" "G" "T" "C" "T" "T" "C" "G" "T" "A"
## [20737] "G" "A" "A" "A" "T" "T" "T" "T" "T" "A" "A" "C" "A" "T" "G" "T" "A" "A"
## [20755] "G" "T" "C" "G" "T" "C" "G" "G" "T" "T" "T" "T" "G" "T" "G" "T" "T" "C"
## [20773] "G" "A" "C" "T" "A" "C" "A" "A" "C" "G" "T" "T" "T" "C" "A" "G" "T" "C"
## [20791] "A" "C" "A" "T" "G" "A" "G" "A" "T" "A" "T" "T" "C" "A" "A" "A" "A" "C"
## [20809] "T" "A" "C" "C" "A" "C" "A" "C" "A" "T" "T" "G" "T" "C" "T" "A" "C" "A"
## [20827] "A" "T" "G" "G" "T" "T" "G" "A" "C" "G" "T" "G" "A" "T" "T" "T" "T" "T"
## [20845] "G" "A" "G" "A" "T" "C" "C" "A" "T" "T" "C" "T" "T" "T" "A" "C" "G" "T"
## [20863] "T" "T" "T" "T" "C" "A" "G" "T" "G" "G" "T" "A" "A" "T" "C" "A" "A" "C"
## [20881] "A" "C" "G" "C" "A" "T" "T" "A" "T" "A" "G" "C" "A" "C" "G" "G" "T" "C"
## [20899] "C" "G" "T" "T" "T" "G" "G" "T" "C" "C" "G" "T" "G" "C" "T" "G" "T" "T"
## [20917] "T" "T" "G" "G" "G" "T" "G" "A" "A" "G" "A" "G" "A" "A" "C" "A" "A" "T"
## [20935] "A" "C" "T" "G" "A" "C" "G" "T" "C" "G" "T" "T" "A" "G" "T" "T" "A" "C"
## [20953] "C" "C" "G" "T" "T" "C" "G" "A" "A" "A" "C" "A" "G" "T" "A" "A" "T" "C"
## [20971] "A" "T" "A" "T" "T" "G" "A" "T" "G" "G" "T" "G" "G" "T" "G" "C" "G" "A"
## [20989] "C" "C" "G" "A" "T" "T" "T" "G" "G" "T" "A" "C" "A" "C" "A" "G" "T" "T"
## [21007] "T" "T" "A" "G" "T" "C" "G" "T" "A" "C" "A" "A" "A" "C" "A" "A" "T" "C"
## [21025] "G" "T" "T" "T" "T" "G" "T" "T" "C" "A" "T" "A" "G" "A" "C" "A" "T" "C"
## [21043] "T" "A" "C" "G" "A" "T" "A" "C" "A" "G" "T" "G" "C" "T" "C" "A" "C" "T"
## [21061] "G" "T" "G" "G" "T" "G" "G" "T" "A" "G" "T" "T" "A" "T" "C" "G" "G" "A"
## [21079] "A" "C" "A" "T" "A" "G" "G" "A" "T" "A" "C" "T" "A" "A" "A" "G" "T" "G"
## [21097] "A" "A" "C" "T" "T" "T" "T" "C" "A" "G" "T" "C" "A" "T" "A" "C" "A" "A"
## [21115] "A" "T" "C" "T" "G" "T" "A" "C" "T" "G" "T" "A" "C" "T" "T" "G" "T" "C"
## [21133] "C" "A" "C" "A" "A" "T" "A" "A" "T" "T" "T" "A" "T" "C" "T" "T" "T" "T"
## [21151] "A" "T" "C" "G" "T" "C" "G" "T" "T" "G" "T" "T" "T" "T" "T" "C" "C" "T"
## [21169] "T" "G" "T" "G" "T" "T" "C" "A" "C" "A" "T" "T" "G" "A" "A" "A" "T" "T"
## [21187] "A" "A" "T" "T" "G" "A" "C" "G" "A" "A" "G" "T" "T" "G" "G" "T" "T" "A"
## [21205] "A" "T" "A" "A" "T" "T" "G" "T" "T" "A" "A" "A" "A" "T" "G" "G" "T" "G"
## [21223] "G" "G" "A" "A" "T" "T" "C" "A" "C" "G" "A" "T" "A" "G" "A" "A" "A" "C"
## [21241] "A" "A" "C" "A" "A" "T" "G" "T" "T" "G" "T" "A" "A" "T" "T" "G" "T" "T"
## [21259] "G" "A" "A" "C" "A" "G" "A" "T" "C" "A" "T" "C" "A" "A" "C" "G" "T" "G"
## [21277] "T" "A" "C" "A" "G" "T" "T" "G" "A" "A" "T" "T" "T" "T" "C" "C" "A" "T"
## [21295] "T" "C" "A" "A" "T" "A" "A" "G" "A" "A" "A" "A" "A" "T" "C" "G" "T" "C"
## [21313] "G" "T" "G" "A" "T" "G" "C" "A" "T" "A" "A" "A" "C" "A" "A" "A" "A" "G"
## [21331] "C" "A" "T" "C" "A" "A" "C" "A" "A" "G" "T" "C" "T" "G" "T" "T" "A" "C"
## [21349] "T" "G" "T" "A" "C" "T" "T" "T" "A" "G" "A" "A" "A" "T" "T" "G" "C" "A"
## [21367] "A" "G" "G" "T" "A" "T" "A" "G" "T" "T" "T" "C" "G" "T" "T" "A" "C" "A"
## [21385] "A" "C" "A" "C" "T" "G" "A" "A" "A" "A" "A" "C" "G" "A" "T" "G" "G" "A"

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## [21403] "C" "G" "C" "G" "T" "A" "A" "T" "T" "A" "T" "A" "C" "T" "G" "C" "G" "C"
## [21421] "G" "T" "G" "A" "T" "G" "T" "C" "A" "G" "T" "T" "A" "T" "G" "T" "T" "C"
## [21439] "G" "T" "G" "G" "T" "T" "C" "C" "A" "G" "T" "G" "C" "C" "C" "C" "A" "C"
## [21457] "A" "G" "T" "A" "C" "A" "A" "A" "A" "G" "T" "T" "G" "A" "A" "A" "C" "A"
## [21475] "A" "T" "A" "T" "C" "C" "A" "C" "T" "C" "G" "T" "A" "T" "A" "T" "C" "A"
## [21493] "A" "T" "A" "A" "T" "G" "T" "T" "G" "A" "T" "A" "G" "C" "G" "G" "T" "C"
## [21511] "A" "T" "T" "G" "A" "A" "G" "A" "T" "A" "C" "A" "G" "T" "C" "T" "A" "A"
## [21529] "C" "T" "A" "C" "A" "C" "T" "G" "T" "T" "A" "A" "A" "T" "T" "C" "T" "G"
## [21547] "T" "A" "A" "G" "T" "T" "G" "T" "T" "G" "T" "A" "G" "A" "A" "A" "T" "C"
## [21565] "A" "A" "A" "G" "A" "T" "G" "T" "A" "G" "A" "C" "T" "T" "A" "G" "T" "T"
## [21583] "G" "T" "T" "T" "G" "G" "G" "A" "A" "C" "G" "G" "C" "T" "C" "G" "A" "C"
## [21601] "G" "A" "C" "T" "T" "T" "A" "T" "T" "T" "T" "C" "A" "T" "C" "T" "A" "T"
## [21619] "T" "C" "T" "G" "T" "A" "A" "C" "A" "G" "A" "T" "T" "C" "C" "T" "G" "T"
## [21637] "G" "T" "A" "A" "G" "A" "A" "A" "C" "G" "T" "T" "C" "A" "A" "G" "T" "C"
## [21655] "G" "A" "A" "G" "A" "C" "G" "T" "C" "A" "A" "C" "G" "T" "T" "G" "A" "T"
## [21673] "C" "A" "C" "A" "A" "A" "A" "C" "T" "C" "A" "A" "A" "A" "A" "G" "G" "T"
## [21691] "A" "A" "C" "C" "A" "T" "G" "C" "A" "A" "T" "T" "T" "T" "C" "A" "A" "C"
## [21709] "T" "A" "C" "T" "T" "T" "T" "G" "C" "A" "T" "A" "A" "T" "T" "G" "C" "A"
## [21727] "T" "T" "C" "G" "T" "A" "G" "T" "T" "T" "G" "T" "A" "A" "A" "A" "T" "T"
## [21745] "G" "A" "C" "G" "T" "T" "G" "A" "A" "G" "G" "C" "G" "T" "G" "A" "T" "A"
## [21763] "G" "T" "G" "G" "T" "T" "G" "T" "A" "G" "T" "C" "T" "G" "T" "G" "A" "T"
## [21781] "T" "A" "C" "G" "G" "A" "C" "T" "A" "G" "A" "T" "C" "A" "T" "T" "G" "T"
## [21799] "C" "A" "T" "A" "T" "C" "C" "A" "A" "C" "T" "G" "T" "G" "T" "A" "T" "T"
## [21817] "C" "G" "A" "C" "T" "G" "A" "C" "A" "T" "C" "A" "T" "T" "T" "G" "T" "C"
## [21835] "T" "G" "C" "G" "A" "C" "T" "A" "A" "A" "A" "C" "G" "T" "C" "T" "A" "C"
## [21853] "T" "A" "A" "G" "A" "A" "G" "T" "G" "T" "A" "A" "A" "A" "C" "T" "A" "A"
## [21871] "A" "T" "G" "G" "T" "A" "G" "T" "T" "T" "T" "T" "G" "A" "T" "A" "T" "T"
## [21889] "G" "T" "A" "A" "T" "T" "A" "T" "C" "C" "G" "T" "T" "A" "C" "T" "T" "G"
## [21907] "G" "A" "A" "A" "T" "C" "A" "C" "A" "A" "T" "A" "A" "T" "C" "G" "A" "G"
## [21925] "A" "G" "T" "C" "C" "A" "A" "C" "A" "G" "A" "T" "T" "C" "A" "A" "T" "T"
## [21943] "G" "T" "T" "T" "T" "A" "C" "T" "C" "T" "C" "T" "C" "T" "C" "T" "T" "A"
## [21961] "C" "A" "G" "A" "A" "A" "G" "T" "A" "T" "T" "C" "A" "G" "A" "A" "A" "A"
## [21979] "C" "T" "G" "G" "T" "C" "G" "A" "A" "A" "T" "A" "G" "T" "T" "T" "C" "A"
## [21997] "T" "T" "T" "C" "T" "A" "C" "C" "T" "A" "C" "C" "T" "T" "G" "G" "T" "A"
## [22015] "A" "G" "A" "A" "G" "T" "G" "A" "C" "A" "T" "T" "G" "T" "G" "A" "T" "A"
## [22033] "G" "T" "T" "G" "C" "T" "A" "C" "A" "T" "T" "C" "T" "T" "C" "T" "G" "A"
## [22051] "C" "C" "A" "G" "T" "C" "A" "T" "C" "C" "T" "A" "A" "A" "T" "A" "A" "C"
## [22069] "C" "A" "G" "A" "A" "A" "A" "T" "T" "T" "G" "A" "C" "A" "T" "C" "A" "C"
## [22087] "T" "G" "T" "T" "C" "A" "G" "A" "G" "A" "G" "C" "G" "T" "T" "G" "A" "A"
## [22105] "G" "T" "A" "G" "T" "G" "A" "T" "T" "A" "T" "T" "T" "A" "C" "A" "T" "G"
## [22123] "A" "T" "G" "G" "T" "C" "G" "T" "G" "T" "C" "T" "T" "A" "C" "A" "T" "A"
## [22141] "G" "T" "G" "T" "T" "A" "A" "T" "T" "G" "T" "G" "T" "T" "A" "A" "G" "G"
## [22159] "T" "T" "A" "A" "C" "A" "C" "A" "T" "C" "A" "A" "A" "C" "G" "T" "T" "T"
## [22177] "T" "C" "G" "G" "A" "A" "A" "T" "G" "G" "A" "G" "G" "T" "A" "A" "T" "C"
## [22195] "G" "T" "A" "T" "C" "T" "G" "T" "A" "T" "T" "T" "T" "C" "C" "T" "G" "G"
## [22213] "A" "A" "G" "A" "T" "T" "G" "T" "G" "G" "T" "A" "A" "T" "T" "G" "T" "T"
## [22231] "A" "T" "C" "A" "A" "C" "A" "T" "G" "T" "A" "A" "G" "C" "T" "G" "A" "G"
## [22249] "A" "A" "C" "A" "A" "C" "G" "A" "G" "A" "T" "A" "A" "T" "G" "C" "A" "A"
## [22267] "A" "C" "A" "T" "T" "G" "T" "G" "T" "A" "G" "T" "A" "T" "G" "T" "T" "C"
## [22285] "A" "A" "C" "T" "A" "C" "T" "T" "A" "A" "T" "G" "T" "T" "G" "G" "C" "A"
## [22303] "G" "A" "T" "G" "T" "T" "G" "T" "A" "C" "G" "T" "G" "T" "A" "T" "T" "G"
## [22321] "A" "A" "A" "A" "G" "G" "T" "A" "T" "G" "T" "A" "T" "T" "A" "T" "T" "T"
## [22339] "T" "A" "C" "T" "A" "C" "G" "T" "T" "T" "C" "T" "T" "C" "T" "A" "C" "A"
## [22357] "T" "G" "T" "A" "A" "G" "A" "T" "T" "G" "G" "T" "A" "T" "C" "G" "A" "C"

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## [22375] "T" "T" "T" "A" "G" "C" "C" "C" "C" "G" "G" "T" "A" "A" "A" "C" "A" "T"
## [22393] "G" "T" "T" "C" "T" "A" "A" "T" "T" "A" "A" "T" "A" "A" "T" "T" "G" "G"
## [22411] "T" "G" "T" "A" "T" "T" "C" "G" "G" "T" "T" "C" "T" "T" "A" "A" "T" "G"
## [22429] "A" "T" "T" "A" "T" "T" "T" "T" "A" "C" "A" "T" "G" "A" "C" "G" "T" "T"
## [22447] "T" "T" "A" "T" "C" "G" "A" "C" "T" "T" "T" "T" "T" "G" "T" "T" "A" "A"
## [22465] "C" "G" "T" "A" "C" "T" "A" "A" "C" "G" "T" "C" "G" "G" "T" "T" "A" "G"
## [22483] "G" "T" "T" "C" "A" "T" "G" "T" "A" "T" "C" "T" "T" "T" "T" "T" "G" "G"
## [22501] "A" "T" "C" "A" "C" "T" "T" "T" "T" "C" "T" "T" "A" "T" "A" "T" "A" "C"
## [22519] "G" "G" "T" "T" "T" "T" "T" "G" "G" "T" "G" "A" "G" "A" "C" "G" "T" "T"
## [22537] "G" "A" "T" "T" "C" "G" "G" "T" "T" "T" "T" "C" "G" "T" "C" "A" "A" "T"
## [22555] "T" "T" "A" "G" "G" "G" "T" "A" "A" "A" "T" "T" "T" "T" "C" "T" "A" "C"
## [22573] "T" "T" "T" "A" "C" "C" "A" "T" "T" "A" "A" "A" "C" "A" "T" "A" "T" "C"
## [22591] "A" "A" "A" "G" "A" "T" "T" "T" "C" "T" "T" "C" "C" "T" "A" "T" "C" "C"
## [22609] "A" "C" "A" "G" "A" "T" "T" "T" "C" "T" "T" "A" "G" "A" "T" "T" "T" "G"
## [22627] "G" "T" "G" "A" "T" "T" "C" "T" "G" "T" "T" "T" "G" "T" "G" "A" "T" "G"
## [22645] "T" "T" "C" "C" "A" "T" "A" "T" "C" "T" "T" "G" "G" "T" "C" "A" "T" "G"
## [22663] "T" "C" "A" "T" "C" "C" "A" "A" "C" "G" "T" "T" "A" "T" "C" "A" "C" "T"
## [22681] "G" "T" "A" "A" "T" "C" "A" "T" "C" "T" "C" "A" "A" "G" "T" "T" "T" "A"
## [22699] "T" "C" "G" "G" "A" "A" "G" "A" "G" "A" "C" "A" "T" "T" "G" "G" "T" "C"
## [22717] "A" "T" "G" "T" "C" "A" "T" "T" "C" "T" "T" "C" "C" "G" "T" "A" "C" "G"
## [22735] "G" "A" "T" "T" "T" "A" "A" "T" "C" "T" "G" "T" "A" "A" "T" "T" "T" "T"
## [22753] "G" "T" "G" "G" "A" "T" "T" "T" "C" "G" "T" "C" "G" "C" "C" "A" "A" "C"
## [22771] "T" "C" "A" "T" "C" "T" "A" "A" "T" "T" "T" "C" "T" "T" "G" "G" "A" "T"
## [22789] "C" "C" "G" "T" "T" "T" "G" "T" "G" "A" "A" "T" "T" "A" "T" "C" "A" "T"
## [22807] "T" "T" "T" "T" "G" "G" "T" "T" "T" "A" "A" "C" "A" "T" "T" "A" "T" "A"
## [22825] "A" "A" "T" "A" "G" "T" "C" "A" "A" "A" "T" "C" "T" "T" "T" "T" "T" "A"
## [22843] "A" "T" "C" "C" "A" "C" "T" "G" "A" "A" "G" "T" "T" "T" "A" "T" "T" "A"
## [22861] "A" "T" "T" "T" "A" "C" "T" "T" "C" "G" "G" "A" "G" "A" "T" "C" "T" "G"
## [22879] "T" "T" "T" "T" "A" "A" "A" "T" "G" "G" "C" "T" "G" "T" "G" "A" "G" "A"
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## [22915] "A" "T" "C" "A" "T" "C" "A" "G" "C" "C" "G" "T" "A" "T" "C" "T" "A" "C"
## [22933] "G" "A" "A" "A" "T" "T" "A" "A" "G" "A" "T" "C" "T" "T" "A" "A" "A" "C"
## [22951] "A" "T" "G" "A" "A" "G" "A" "T" "C" "A" "T" "T" "T" "T" "C" "A" "T" "G"
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## [23041] "A" "C" "A" "A" "T" "C" "A" "T" "C" "A" "A" "C" "A" "T" "G" "A" "T" "T"
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## [23077] "C" "G" "A" "A" "T" "C" "G" "T" "A" "T" "T" "A" "A" "T" "C" "G" "A" "T"
## [23095] "A" "T" "C" "A" "T" "A" "G" "G" "G" "T" "T" "C" "C" "C" "T" "G" "T" "G"
## [23113] "A" "T" "A" "A" "T" "T" "G" "T" "C" "G" "T" "C" "G" "A" "T" "T" "T" "G"
## [23131] "G" "T" "A" "C" "T" "C" "A" "T" "C" "G" "T" "T" "C" "C" "C" "A" "A" "A"
## [23149] "A" "G" "T" "T" "T" "G" "G" "A" "T" "T" "A" "T" "G" "A" "G" "A" "T" "C"
## [23167] "T" "A" "T" "T" "A" "A" "G" "T" "A" "A" "T" "C" "C" "A" "A" "A" "G" "A"
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## [23257] "T" "T" "G" "A" "T" "A" "A" "T" "A" "A" "A" "C" "G" "A" "C" "C" "A" "A"
## [23275] "A" "T" "T" "C" "A" "T" "A" "T" "T" "A" "C" "A" "G" "A" "G" "G" "A" "T"
## [23293] "G" "T" "T" "G" "A" "A" "G" "C" "C" "A" "T" "C" "A" "A" "A" "A" "G" "T"
## [23311] "G" "T" "A" "A" "T" "G" "T" "G" "A" "G" "T" "T" "C" "T" "T" "G" "C" "A"
## [23329] "G" "A" "A" "A" "G" "A" "C" "A" "T" "A" "C" "C" "A" "T" "C" "C" "T" "A"

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## [23347] "A" "A" "A" "G" "G" "T" "G" "A" "T" "G" "A" "A" "G" "A" "A" "G" "T" "C"
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## [23383] "G" "C" "G" "T" "C" "C" "G" "T" "T" "C" "T" "A" "A" "T" "A" "G" "G" "T"
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## [23761] "C" "A" "T" "G" "T" "T" "C" "T" "A" "G" "T" "T" "A" "A" "C" "C" "A" "A"
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## [24031] "G" "T" "G" "A" "T" "C" "G" "T" "G" "T" "T" "C" "A" "T" "T" "T" "A" "C"
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## [24067] "T" "G" "A" "C" "T" "C" "G" "T" "C" "C" "A" "C" "C" "A" "C" "G" "A" "C"
## [24085] "T" "G" "T" "A" "G" "T" "A" "T" "T" "G" "T" "T" "T" "T" "C" "C" "A" "C"
## [24103] "T" "G" "A" "G" "G" "A" "C" "A" "A" "C" "A" "T" "G" "A" "T" "C" "T" "A"
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## [24139] "G" "T" "G" "T" "G" "C" "A" "T" "G" "T" "T" "C" "C" "A" "T" "A" "G" "A"
## [24157] "C" "T" "T" "G" "T" "G" "G" "A" "A" "A" "G" "A" "A" "T" "T" "T" "A" "A"
## [24175] "C" "A" "A" "G" "T" "A" "T" "T" "C" "T" "T" "T" "C" "A" "C" "A" "C" "G"
## [24193] "G" "G" "T" "A" "C" "A" "T" "G" "T" "A" "T" "T" "G" "T" "C" "G" "A" "A"
## [24211] "G" "A" "T" "G" "T" "G" "G" "G" "A" "A" "T" "T" "C" "C" "C" "A" "A" "C"
## [24229] "A" "G" "A" "C" "G" "A" "C" "A" "A" "C" "A" "G" "G" "T" "G" "T" "T" "C"
## [24247] "A" "A" "A" "A" "T" "G" "T" "G" "T" "G" "G" "T" "G" "C" "A" "A" "G" "T"
## [24265] "T" "C" "T" "G" "A" "G" "A" "A" "A" "A" "C" "G" "T" "T" "C" "T" "T" "A"
## [24283] "G" "A" "T" "T" "T" "A" "A" "C" "C" "G" "T" "A" "C" "A" "A" "C" "T" "T"
## [24301] "T" "G" "T" "T" "C" "A" "T" "T" "G" "A" "G" "T" "A" "A" "C" "A" "A" "A"

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## [24319] "G" "A" "G" "A" "T" "T" "G" "T" "A" "G" "T" "G" "G" "A" "T" "T" "G" "A"
## [24337] "G" "T" "G" "G" "A" "T" "G" "A" "C" "A" "G" "A" "A" "T" "A" "A" "T" "G"
## [24355] "T" "C" "A" "T" "C" "C" "G" "A" "T" "T" "C" "T" "A" "T" "T" "C" "A" "C"
## [24373] "G" "T" "G" "T" "T" "T" "T" "C" "A" "A" "T" "A" "G" "T" "C" "G" "A" "A"
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## [24427] "G" "T" "C" "C" "A" "C" "C" "T" "A" "A" "T" "T" "T" "G" "A" "A" "G" "T"
## [24445] "T" "G" "A" "G" "A" "T" "A" "A" "A" "C" "A" "A" "C" "C" "T" "C" "A" "C"
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## [24499] "G" "G" "G" "T" "A" "A" "A" "T" "T" "A" "T" "C" "T" "T" "C" "A" "A" "T"
## [24517] "T" "T" "G" "G" "T" "A" "A" "T" "T" "G" "A" "A" "C" "A" "C" "C" "C" "A"
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## [24643] "C" "A" "T" "T" "T" "T" "G" "T" "A" "T" "T" "T" "T" "A" "C" "A" "A" "A"
## [24661] "A" "T" "G" "G" "A" "A" "G" "T" "A" "C" "A" "C" "T" "T" "A" "A" "T" "A"
## [24679] "C" "T" "C" "C" "A" "A" "A" "A" "T" "A" "A" "A" "A" "T" "C" "A" "T" "T"
## [24697] "G" "T" "A" "G" "T" "C" "G" "A" "G" "G" "T" "A" "G" "G" "T" "T" "T" "A"
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## [24769] "C" "C" "T" "C" "C" "A" "A" "T" "T" "A" "C" "A" "A" "C" "A" "G" "A" "T"
## [24787] "G" "A" "C" "A" "A" "C" "A" "T" "T" "T" "G" "T" "G" "G" "A" "A" "T" "T"
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## [25039] "C" "T" "A" "T" "T" "G" "G" "T" "A" "A" "T" "A" "T" "G" "C" "G" "A" "C"
## [25057] "A" "T" "T" "G" "T" "C" "G" "T" "A" "G" "T" "C" "C" "A" "C" "T" "T" "C"
## [25075] "T" "T" "T" "G" "T" "C" "T" "T" "T" "G" "A" "C" "A" "T" "C" "G" "A" "C"
## [25093] "C" "G" "T" "G" "A" "A" "A" "C" "T" "C" "T" "C" "T" "A" "G" "A" "G" "T"
## [25111] "A" "T" "A" "T" "G" "G" "C" "T" "C" "G" "T" "C" "G" "A" "A" "G" "A" "A"
## [25129] "G" "G" "T" "T" "T" "A" "A" "A" "T" "T" "C" "G" "G" "T" "A" "C" "A" "C"
## [25147] "A" "A" "T" "G" "T" "A" "T" "C" "G" "G" "T" "T" "C" "A" "C" "C" "G" "T"
## [25165] "A" "A" "C" "A" "T" "T" "G" "T" "T" "C" "T" "C" "A" "A" "A" "G" "T" "A"
## [25183] "A" "A" "T" "C" "T" "A" "G" "C" "A" "A" "T" "T" "C" "A" "C" "A" "C" "A"
## [25201] "A" "C" "T" "A" "T" "T" "C" "A" "C" "T" "G" "C" "G" "A" "T" "G" "T" "C"
## [25219] "A" "A" "C" "A" "A" "A" "A" "T" "G" "A" "C" "C" "A" "C" "A" "T" "T" "T"
## [25237] "T" "C" "A" "T" "T" "T" "T" "A" "G" "A" "T" "C" "G" "T" "G" "G" "T" "A"
## [25255] "T" "T" "A" "G" "T" "T" "G" "G" "T" "G" "T" "G" "G" "G" "A" "G" "A" "A"
## [25273] "C" "A" "T" "A" "A" "A" "A" "T" "T" "A" "T" "G" "G" "G" "A" "A" "T" "A"

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## [25291] "T" "A" "A" "A" "T" "G" "C" "G" "A" "C" "A" "T" "A" "T" "C" "A" "A" "C"
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## [25327] "G" "G" "T" "G" "T" "G" "T" "C" "T" "G" "T" "C" "C" "G" "T" "A" "A" "T"
## [25345] "T" "A" "A" "A" "C" "G" "C" "A" "C" "A" "A" "A" "G" "A" "A" "G" "A" "C"
## [25363] "G" "T" "A" "C" "A" "C" "G" "T" "T" "C" "G" "T" "A" "A" "A" "G" "A" "G"
## [25381] "C" "G" "T" "T" "T" "A" "A" "G" "G" "T" "T" "C" "T" "T" "T" "G" "T" "C"
## [25399] "A" "A" "G" "G" "T" "T" "C" "T" "T" "A" "A" "A" "G" "A" "A" "C" "G" "A"
## [25417] "A" "G" "A" "G" "T" "A" "A" "T" "C" "T" "C" "T" "A" "T" "T" "A" "T" "C"
## [25435] "T" "A" "C" "C" "A" "T" "C" "T" "T" "A" "C" "A" "T" "T" "T" "T" "C" "C"
## [25453] "G" "T" "G" "A" "A" "A" "A" "T" "G" "T" "G" "A" "A" "A" "A" "A" "T" "T"
## [25471] "C" "G" "T" "G" "A" "C" "A" "G" "A" "A" "A" "C" "G" "G" "A" "G" "G" "A"
## [25489] "G" "A" "T" "G" "T" "C" "A" "C" "A" "T" "T" "G" "G" "T" "A" "A" "A" "T"
## [25507] "T" "T" "G" "G" "G" "A" "C" "T" "G" "G" "G" "C" "C" "C" "A" "T" "T" "C"
## [25525] "A" "C" "C" "A" "A" "T" "A" "T" "A" "T" "T" "A" "A" "C" "A" "G" "A" "C"
## [25543] "A" "A" "C" "C" "G" "T" "G" "A" "A" "A" "A" "G" "A" "G" "T" "T" "T" "C"
## [25561] "G" "A" "A" "A" "G" "C" "G" "A" "T" "C" "G" "T" "A" "A" "A" "G" "T" "C"
## [25579] "A" "T" "C" "A" "C" "G" "G" "T" "G" "G" "T" "C" "G" "G" "A" "A" "A" "A"
## [25597] "A" "T" "C" "A" "T" "C" "C" "A" "T" "A" "T" "T" "G" "G" "T" "G" "T" "C"
## [25615] "G" "T" "C" "A" "A" "T" "T" "T" "T" "G" "T" "G" "G" "G" "A" "G" "A" "A"
## [25633] "C" "T" "T" "G" "T" "T" "G" "T" "A" "G" "T" "G" "G" "G" "T" "G" "A" "T"
## [25651] "A" "T" "A" "T" "A" "C" "C" "T" "C" "G" "T" "A" "G" "A" "A" "A" "G" "A"
## [25669] "A" "A" "T" "T" "C" "T" "T" "T" "C" "A" "C" "T" "A" "C" "A" "G" "T" "T"
## [25687] "A" "C" "A" "G" "T" "G" "A" "T" "T" "G" "T" "T" "C" "T" "C" "A" "C" "C"
## [25705] "G" "T" "C" "T" "T" "A" "G" "A" "C" "C" "T" "A" "C" "T" "T" "C" "T" "A"
## [25723] "A" "C" "G" "G" "T" "A" "A" "T" "T" "A" "C" "A" "G" "T" "T" "A" "T" "A"
## [25741] "T" "T" "T" "C" "A" "T" "T" "G" "T" "T" "C" "A" "A" "A" "A" "G" "A" "C"
## [25759] "A" "C" "T" "C" "C" "T" "T" "G" "A" "A" "T" "C" "A" "A" "A" "G" "A" "A"
## [25777] "G" "G" "T" "C" "T" "C" "A" "A" "C" "A" "A" "C" "A" "T" "T" "G" "A" "A"
## [25795] "G" "A" "A" "G" "T" "T" "G" "T" "G" "T" "T" "C" "G" "A" "A" "A" "C" "T"
## [25813] "A" "A" "A" "A" "G" "A" "A" "T" "A" "G" "T" "A" "G" "A" "A" "C" "A" "A"
## [25831] "A" "A" "G" "A" "G" "A" "C" "A" "A" "G" "T" "T" "G" "A" "C" "T" "T" "C"
## [25849] "C" "A" "A" "A" "T" "G" "A" "A" "A" "G" "T" "C" "A" "A" "T" "A" "T" "T"
## [25867] "T" "A" "C" "C" "G" "A" "A" "T" "T" "G" "A" "A" "G" "G" "A" "G" "A" "A"
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## [25903] "A" "A" "A" "C" "A" "A" "G" "T" "T" "G" "A" "A" "C" "G" "A" "A" "A" "A"
## [25921] "G" "T" "G" "A" "G" "A" "A" "G" "T" "A" "A" "A" "G" "G" "T" "T" "T" "T"
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## [25993] "A" "A" "C" "A" "C" "G" "C" "T" "T" "G" "T" "C" "A" "T" "A" "G" "A" "T"
## [26011] "G" "T" "G" "T" "T" "T" "G" "A" "G" "A" "A" "T" "T" "T" "C" "T" "T" "A"
## [26029] "C" "A" "T" "A" "T" "C" "C" "C" "A" "G" "T" "C" "G" "T" "G" "G" "T" "T"
## [26047] "T" "T" "T" "A" "T" "G" "G" "T" "C" "G" "A" "C" "T" "A" "T" "T" "A" "T"
## [26065] "T" "A" "C" "C" "A" "C" "G" "T" "T" "C" "A" "T" "C" "T" "T" "G" "A" "A"
## [26083] "G" "C" "A" "C" "G" "A" "C" "T" "A" "A" "T" "T" "T" "T" "A" "A" "A" "A"
## [26101] "G" "T" "A" "T" "T" "C" "G" "T" "G" "A" "G" "A" "A" "T" "T" "C" "T" "T"
## [26119] "C" "A" "A" "C" "T" "T" "A" "C" "A" "G" "A" "A" "G" "T" "G" "G" "A" "A"
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## [26155] "G" "T" "T" "G" "T" "A" "C" "T" "T" "C" "T" "G" "T" "C" "A" "C" "A" "A"
## [26173] "A" "T" "C" "G" "T" "T" "C" "T" "A" "A" "C" "A" "C" "A" "G" "G" "C" "G"
## [26191] "A" "A" "T" "T" "T" "T" "G" "T" "G" "T" "T" "G" "A" "T" "G" "G" "T" "G"
## [26209] "G" "G" "T" "G" "A" "A" "A" "T" "T" "C" "A" "C" "C" "A" "G" "G" "T" "A"
## [26227] "A" "T" "C" "A" "T" "C" "G" "A" "T" "A" "C" "A" "T" "T" "A" "G" "T" "A"
## [26245] "G" "T" "C" "T" "A" "A" "G" "T" "T" "G" "A" "A" "C" "G" "T" "A" "C" "C"

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## [26263] "G" "T" "A" "A" "C" "A" "A" "T" "C" "A" "T" "C" "G" "G" "A" "A" "T" "A"
## [26281] "A" "A" "T" "T" "C" "C" "G" "A" "G" "G" "A" "C" "G" "T" "T" "G" "T" "G"
## [26299] "G" "A" "G" "G" "A" "G" "G" "T" "A" "C" "A" "A" "A" "T" "T" "C" "C" "A"
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## [26335] "G" "T" "T" "G" "G" "T" "G" "A" "C" "A" "A" "C" "C" "A" "A" "A" "A" "T"
## [26353] "G" "G" "A" "A" "A" "A" "A" "T" "C" "G" "A" "A" "G" "A" "A" "G" "G" "T"
## [26371] "G" "T" "T" "A" "C" "A" "G" "A" "C" "G" "T" "A" "A" "A" "A" "A" "T" "T"
## [26389] "A" "C" "A" "T" "A" "T" "G" "T" "A" "A" "C" "A" "G" "T" "C" "A" "T" "T"
## [26407] "C" "A" "A" "A" "A" "T" "T" "T" "A" "T" "T" "G" "G" "T" "G" "A" "T" "T"
## [26425] "T" "T" "G" "A" "T" "A" "A" "G" "T" "G" "A" "A" "G" "T" "T" "A" "T" "C"
## [26443] "A" "G" "A" "C" "T" "T" "G" "T" "T" "G" "A" "C" "C" "A" "C" "A" "T" "T"
## [26461] "C" "A" "A" "G" "G" "T" "A" "G" "A" "G" "A" "T" "T" "A" "A" "C" "T" "C"
## [26479] "C" "A" "A" "C" "T" "T" "G" "G" "A" "G" "T" "T" "G" "T" "T" "A" "A" "C"
## [26497] "A" "A" "A" "C" "T" "T" "A" "T" "T" "A" "T" "C" "A" "A" "C" "A" "G" "A"
## [26515] "C" "T" "A" "A" "C" "A" "G" "G" "A" "G" "T" "G" "A" "C" "G" "G" "C" "A"
## [26533] "G" "A" "A" "C" "A" "A" "C" "T" "G" "G" "T" "T" "G" "T" "C" "A" "A" "A"
## [26551] "C" "A" "A" "C" "T" "G" "A" "T" "A" "G" "T" "A" "G" "T" "A" "G" "A" "T"
## [26569] "T" "G" "G" "T" "T" "A" "G" "A" "A" "G" "A" "A" "G" "A" "A" "C" "G" "A"
## [26587] "G" "A" "A" "G" "A" "A" "G" "T" "C" "C" "A" "A" "C" "T" "T" "C" "T" "C"
## [26605] "G" "T" "C" "G" "T" "C" "T" "T" "C" "A" "C" "C" "G" "T" "G" "G" "T" "T"
## [26623] "T" "A" "A" "G" "G" "T" "T" "T" "C" "C" "A" "A" "A" "T" "G" "G" "A" "A"
## [26641] "C" "C" "A" "T" "T" "A" "G" "T" "A" "G" "A" "A" "G" "T" "C" "A" "T" "G"
## [26659] "G" "T" "A" "T" "G" "A" "G" "T" "A" "T" "A" "A" "C" "T" "C" "A" "A" "C"
## [26677] "T" "A" "C" "C" "G" "A" "G" "T" "T" "T" "G" "A" "G" "A" "A" "G" "A" "A"
## [26695] "G" "A" "A" "G" "T" "G" "T" "T" "A" "G" "T" "G" "G" "A" "A" "G" "A" "A"
## [26713] "G" "A" "A" "G" "T" "A" "G" "G" "A" "G" "T" "A" "G" "A" "C" "C" "T" "C"
## [26731] "C" "C" "A" "T" "T" "T" "T" "T" "C" "T" "T" "G" "T" "T" "A" "T" "G" "T"
## [26749] "A" "T" "A" "C" "A" "C" "T" "T" "C" "G" "G" "T" "T" "A" "A" "A" "T" "T"
## [26767] "T" "G" "A" "G" "T" "G" "G" "T" "C" "T" "G" "A" "G" "T" "A" "G" "T" "T"
## [26785] "T" "A" "T" "T" "C" "A" "T" "C" "A" "T" "A" "C" "A" "T" "C" "G" "G" "T"
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## [26821] "G" "T" "T" "A" "C" "G" "G" "G" "T" "C" "A" "C" "C" "A" "C" "A" "T" "T"
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## [26875] "G" "T" "A" "G" "A" "C" "G" "G" "T" "G" "T" "T" "G" "T" "G" "T" "C" "C"
## [26893] "G" "C" "T" "T" "G" "A" "G" "T" "A" "A" "A" "T" "G" "A" "A" "G" "A" "C"
## [26911] "A" "T" "G" "G" "C" "T" "C" "A" "A" "G" "T" "T" "G" "A" "C" "A" "T" "A"
## [26929] "T" "C" "C" "G" "T" "C" "T" "C" "G" "T" "G" "A" "A" "G" "A" "G" "T" "A"
## [26947] "A" "T" "T" "C" "A" "T" "G" "A" "A" "A" "T" "A" "G" "T" "T" "A" "G" "G"
## [26965] "A" "A" "A" "G" "T" "A" "G" "T" "T" "C" "A" "A" "G" "T" "T" "T" "T" "C"
## [26983] "A" "C" "T" "A" "T" "A" "A" "G" "T" "G" "T" "G" "A" "G" "A" "A" "C" "A"
## [27001] "T" "T" "G" "G" "A" "A" "C" "G" "T" "G" "A" "A" "G" "A" "T" "A" "G" "T"
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## [27199] "A" "T" "C" "C" "A" "A" "C" "A" "A" "G" "A" "T" "T" "A" "C" "C" "A" "A"
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## [27685] "T" "G" "A" "C" "T" "T" "G" "T" "T" "G" "T" "G" "G" "T" "G" "G" "A" "C"
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## [27919] "C" "A" "T" "A" "A" "C" "T" "A" "A" "A" "G" "A" "C" "A" "A" "G" "T" "G"
## [27937] "G" "T" "T" "A" "T" "A" "A" "G" "G" "T" "C" "C" "G" "T" "G" "G" "A" "A"
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## [28045] "G" "T" "T" "T" "T" "C" "G" "T" "G" "A" "A" "C" "A" "C" "C" "T" "T" "C"
## [28063] "G" "T" "C" "T" "T" "T" "T" "T" "C" "T" "A" "C" "G" "G" "T" "T" "T" "T"
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## [28189] "G" "T" "T" "G" "T" "T" "G" "T" "G" "G" "A" "C" "A" "T" "A" "C" "C" "A"

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## [28765] "A" "G" "A" "A" "A" "A" "G" "T" "C" "T" "T" "G" "C" "A" "A" "G" "G" "C"
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## [28909] "T" "G" "A" "G" "T" "T" "C" "T" "C" "C" "C" "A" "T" "C" "G" "G" "T" "A"
## [28927] "G" "T" "C" "C" "C" "G" "G" "T" "G" "T" "C" "T" "T" "C" "A" "A" "C" "A"
## [28945] "A" "T" "A" "G" "C" "T" "G" "T" "A" "T" "C" "G" "C" "T" "C" "A" "C" "A"
## [28963] "T" "A" "C" "G" "G" "G" "G" "A" "G" "G" "C" "A" "A" "T" "T" "C" "G" "A"
## [28981] "G" "T" "G" "C" "G" "T" "A" "C" "T" "C" "A" "A" "G" "T" "G" "C" "C" "C"
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## [29071] "G" "A" "T" "T" "C" "A" "G" "T" "T" "T" "A" "C" "T" "G" "A" "A" "A" "T"
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## [29485] "T" "T" "G" "G" "T" "C" "C" "C" "T" "G" "T" "T" "C" "C" "G" "A" "G" "A"
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#DELTA

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##     [37] "A" "T" "G" "A" "T" "T" "T" "T" "A" "A" "T" "T" "A" "A" "A" "A" "T" "G"
##     [55] "T" "G" "T" "A" "A" "T" "C" "C" "C" "G" "A" "G" "A" "A" "G" "G" "T" "A"
##     [73] "T" "A" "T" "C" "C" "G" "T" "C" "G" "A" "G" "A" "G" "G" "G" "A" "T" "C"
##     [91] "G" "T" "A" "A" "C" "A" "A" "G" "T" "G" "A" "C" "A" "T" "G" "T" "G" "A"
##    [109] "G" "C" "T" "A" "G" "C" "A" "T" "G" "A" "G" "G" "C" "T" "C" "A" "C" "C"
##   [127] "G" "G" "A" "G" "C" "C" "A" "C" "T" "T" "T" "T" "A" "C" "A" "C" "C" "A"
##   [145] "C" "C" "G" "A" "G" "A" "A" "A" "G" "T" "T" "C" "A" "G" "G" "A" "G" "G"
##   [163] "G" "A" "T" "T" "A" "C" "A" "A" "T" "G" "T" "G" "T" "G" "A" "C" "T" "A"
##   [181] "A" "T" "T" "T" "C" "T" "A" "A" "C" "G" "A" "T" "A" "C" "A" "C" "T" "C"
##   [199] "T" "A" "A" "T" "T" "T" "C" "A" "A" "T" "T" "G" "A" "T" "G" "T" "A" "G"
##   [217] "A" "T" "G" "A" "A" "C" "A" "C" "G" "A" "T" "A" "C" "A" "T" "C" "A" "A"
##   [235] "T" "G" "C" "T" "C" "T" "T" "A" "A" "G" "T" "A" "A" "G" "A" "C" "G" "T"
##   [253] "G" "T" "T" "C" "T" "C" "A" "T" "C" "T" "G" "A" "T" "A" "T" "A" "T" "A"
##   [271] "G" "C" "A" "T" "T" "T" "G" "C" "C" "T" "T" "T" "T" "C" "G" "C" "T" "T"
##   [289] "T" "T" "G" "C" "A" "A" "A" "T" "A" "T" "A" "T" "C" "G" "G" "G" "T" "A"
##   [307] "G" "A" "C" "G" "G" "A" "A" "C" "A" "C" "A" "C" "C" "A" "G" "A" "C" "G"
##   [325] "T" "A" "C" "T" "C" "A" "A" "A" "T" "C" "C" "G" "G" "A" "C" "T" "C" "A"
##   [343] "A" "C" "T" "C" "A" "G" "T" "C" "G" "T" "G" "A" "C" "G" "A" "G" "T" "A"
##   [361] "C" "C" "T" "A" "A" "C" "A" "A" "C" "G" "T" "T" "A" "A" "C" "A" "A" "A"

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## [379] "C" "C" "T" "C" "T" "T" "T" "A" "G" "T" "A" "G" "G" "T" "T" "T" "A" "G"
## [397] "A" "C" "G" "T" "C" "G" "T" "C" "C" "T" "T" "C" "T" "T" "C" "T" "C" "A"
## [415] "G" "T" "G" "T" "C" "A" "A" "A" "C" "G" "A" "C" "A" "A" "A" "G" "A" "A"
## [433] "G" "A" "C" "A" "G" "A" "G" "A" "C" "G" "C" "C" "A" "T" "T" "C" "C" "G"
## [451] "A" "A" "C" "T" "C" "A" "A" "A" "G" "T" "A" "T" "T" "C" "G" "G" "A" "A"
## [469] "G" "A" "A" "G" "A" "A" "A" "A" "A" "C" "A" "G" "G" "A" "A" "A" "A" "A"
## [487] "T" "C" "C" "G" "A" "G" "A" "C" "A" "A" "C" "C" "A" "C" "C" "C" "T" "T"
## [505] "A" "C" "A" "A" "A" "A" "C" "A" "T" "A" "C" "G" "C" "A" "G" "T" "T" "A"
## [523] "T" "A" "C" "G" "A" "A" "T" "A" "A" "G" "T" "C" "G" "T" "T" "T" "T" "A"
## [541] "C" "T" "G" "A" "A" "C" "T" "A" "G" "A" "A" "A" "C" "T" "T" "T" "A" "A"
## [559] "A" "C" "C" "T" "A" "G" "A" "A" "A" "C" "A" "G" "T" "A" "G" "G" "T" "T"
## [577] "A" "A" "A" "C" "T" "A" "C" "C" "G" "T" "G" "G" "A" "C" "A" "C" "A" "T"
## [595] "C" "C" "A" "G" "T" "T" "G" "G" "T" "G" "C" "A" "A" "G" "G" "G" "C" "T"
## [613] "T" "C" "C" "A" "C" "A" "C" "T" "G" "A" "A" "G" "G" "T" "A" "C" "G" "G"
## [631] "T" "T" "A" "C" "G" "C" "G" "C" "T" "G" "T" "A" "A" "G" "G" "C" "T" "T"
## [649] "C" "T" "T" "G" "C" "G" "A" "C" "T" "T" "C" "G" "C" "G" "A" "C" "C" "C"
## [667] "C" "C" "G" "T" "T" "T" "A" "A" "C" "A" "C" "G" "T" "T" "A" "A" "A" "C"
## [685] "G" "C" "C" "G" "G" "T" "T" "A" "C" "A" "A" "A" "C" "A" "T" "T" "A" "G"
## [703] "T" "C" "A" "A" "G" "G" "A" "A" "C" "A" "G" "A" "C" "T" "A" "A" "T" "C"
## [721] "A" "A" "G" "G" "A" "C" "C" "A" "G" "G" "G" "G" "T" "T" "T" "T" "A" "A"
## [739] "A" "G" "G" "A" "A" "C" "C" "C" "A" "A" "A" "C" "A" "A" "G" "A" "C" "C"
## [757] "T" "G" "G" "T" "G" "C" "A" "G" "A" "C" "G" "G" "C" "T" "T" "T" "C" "G"
## [775] "A" "A" "C" "A" "C" "A" "A" "T" "G" "T" "A" "A" "C" "A" "T" "A" "C" "G"
## [793] "A" "A" "A" "T" "C" "A" "C" "C" "G" "T" "C" "A" "T" "G" "C" "A" "A" "A"
## [811] "A" "A" "C" "G" "G" "C" "T" "C" "C" "G" "A" "A" "G" "A" "A" "T" "C" "T"
## [829] "T" "C" "G" "G" "A" "G" "T" "C" "G" "T" "C" "G" "T" "C" "T" "A" "A" "A"
## [847] "G" "A" "A" "T" "C" "A" "C" "T" "G" "T" "C" "A" "A" "A" "C" "C" "G" "G"
## [865] "A" "A" "C" "A" "A" "C" "A" "A" "C" "A" "A" "C" "C" "G" "G" "A" "A" "A"
## [883] "T" "G" "G" "T" "C" "T" "G" "T" "A" "A" "A" "A" "C" "G" "A" "G" "A" "G"
## [901] "T" "T" "C" "G" "A" "C" "C" "A" "A" "G" "T" "T" "A" "G" "A" "C" "A" "G"
## [919] "T" "T" "C" "G" "T" "C" "G" "T" "C" "G" "T" "T" "T" "C" "G" "T" "T" "C"
## [937] "T" "C" "G" "T" "C" "G" "T" "A" "G" "T" "G" "T" "C" "G" "G" "T" "A" "A"
## [955] "C" "G" "G" "T" "C" "G" "G" "T" "A" "A" "G" "A" "T" "C" "G" "T" "C" "C"
## [973] "T" "C" "T" "T" "C" "A" "A" "G" "G" "G" "T" "A" "T" "G" "A" "C" "G" "A"
## [991] "C" "G" "G" "A" "C" "C" "T" "C" "A" "A" "C" "T" "T" "A" "A" "A" "G" "A"
## [1009] "A" "C" "T" "T" "G" "A" "C" "A" "A" "C" "G" "C" "T" "G" "A" "T" "G" "C"
## [1027] "A" "C" "T" "A" "C" "T" "C" "C" "T" "T" "G" "C" "T" "C" "T" "T" "C" "T"
## [1045] "C" "C" "G" "A" "A" "C" "T" "G" "A" "C" "G" "G" "C" "G" "G" "A" "G" "A"
## [1063] "C" "G" "A" "G" "G" "G" "A" "A" "G" "A" "C" "G" "C" "A" "T" "C" "T" "T"
## [1081] "C" "G" "G" "A" "A" "A" "A" "C" "C" "G" "T" "T" "A" "C" "A" "A" "C" "A"
## [1099] "A" "G" "G" "A" "A" "C" "T" "C" "C" "T" "T" "C" "A" "A" "C" "A" "T" "C"
## [1117] "G" "T" "G" "C" "T" "A" "A" "C" "G" "T" "C" "G" "T" "A" "A" "C" "A" "A"
## [1135] "T" "C" "G" "T" "C" "C" "T" "A" "A" "C" "G" "C" "C" "C" "A" "C" "G" "G"
## [1153] "T" "T" "A" "C" "A" "C" "T" "A" "G" "A" "A" "A" "A" "C" "C" "A" "C" "A"
## [1171] "T" "A" "A" "G" "T" "T" "C" "C" "G" "A" "G" "G" "G" "A" "G" "T" "C" "A"
## [1189] "A" "C" "G" "T" "T" "G" "G" "G" "T" "A" "T" "A" "C" "T" "A" "C" "G" "G"
## [1207] "C" "A" "G" "A" "A" "A" "C" "A" "A" "T" "C" "G" "T" "G" "G" "T" "A" "T"
## [1225] "C" "C" "C" "T" "T" "C" "A" "G" "G" "T" "C" "G" "A" "A" "G" "A" "C" "C"
## [1243] "G" "G" "G" "T" "C" "A" "A" "G" "G" "A" "T" "C" "C" "A" "T" "C" "A" "T"
## [1261] "C" "T" "T" "T" "A" "T" "G" "G" "T" "A" "G" "A" "A" "C" "C" "T" "G" "A"
## [1279] "C" "T" "C" "T" "A" "G" "A" "A" "A" "G" "T" "A" "A" "A" "A" "T" "G" "G"
## [1297] "C" "A" "G" "T" "G" "G" "T" "G" "G" "T" "G" "C" "T" "T" "A" "A" "G" "C"
## [1315] "A" "G" "A" "C" "C" "A" "T" "C" "G" "A" "G" "A" "A" "G" "C" "C" "A" "T"
## [1333] "C" "A" "T" "C" "G" "G" "T" "T" "A" "A" "A" "C" "C" "A" "G" "T" "A" "G"

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## [1351] "A" "C" "C" "T" "G" "A" "C" "G" "A" "T" "A" "A" "C" "C" "A" "C" "A" "A"
## [1369] "T" "T" "A" "A" "C" "C" "T" "T" "G" "C" "G" "G" "A" "A" "C" "A" "G" "G"
## [1387] "A" "G" "C" "T" "C" "C" "C" "T" "T" "A" "A" "A" "T" "T" "C" "C" "G" "G"
## [1405] "A" "A" "G" "G" "A" "A" "C" "G" "G" "T" "A" "C" "A" "A" "C" "T" "C" "A"
## [1423] "C" "T" "C" "T" "C" "G" "C" "C" "A" "C" "T" "T" "G" "G" "T" "T" "C" "T"
## [1441] "G" "C" "G" "T" "C" "A" "T" "A" "A" "T" "A" "A" "C" "C" "C" "A" "T" "T"
## [1459] "T" "G" "G" "A" "A" "C" "C" "C" "C" "G" "G" "C" "T" "G" "C" "A" "A" "C"
## [1477] "A" "A" "A" "A" "C" "T" "A" "G" "C" "G" "C" "G" "G" "G" "G" "T" "G" "A"
## [1495] "C" "G" "C" "A" "A" "G" "A" "G" "G" "T" "A" "A" "G" "A" "C" "C" "A" "A"
## [1513] "T" "G" "A" "C" "G" "G" "T" "C" "A" "A" "C" "T" "T" "A" "G" "A" "C" "T"
## [1531] "C" "C" "C" "A" "G" "G" "T" "G" "G" "T" "T" "T" "G" "C" "A" "T" "T" "A"
## [1549] "C" "G" "C" "C" "C" "C" "A" "C" "G" "T" "A" "A" "A" "G" "C" "G" "A" "C"
## [1567] "T" "A" "A" "A" "A" "C" "C" "C" "C" "A" "G" "G" "T" "A" "A" "T" "A" "G"
## [1585] "T" "C" "T" "G" "T" "A" "A" "A" "N" "T" "C" "A" "A" "A" "C" "A" "A" "G"
## [1603] "C" "A" "A" "A" "T" "C" "T" "A" "A" "T" "T" "T" "A" "G" "A" "T" "T" "T"
## [1621] "T" "G" "T" "T" "G" "T" "G" "C" "T" "T" "G" "C" "A" "G" "T" "A" "C" "T"
## [1639] "A" "T" "G" "A" "G" "A" "T" "T" "T" "T" "T" "C" "A" "G" "A" "A" "G" "T"
## [1657] "A" "T" "C" "T" "T" "G" "C" "T" "T" "G" "T" "T" "G" "C" "G" "T" "G" "A"
## [1675] "T" "G" "T" "T" "C" "T" "G" "A" "T" "G" "G" "G" "T" "T" "A" "A" "A" "T"
## [1693] "C" "C" "A" "A" "G" "G" "A" "C" "C" "G" "T" "T" "A" "A" "T" "T" "A" "A"
## [1711] "C" "A" "T" "T" "T" "T" "C" "C" "A" "T" "T" "T" "G" "T" "C" "C" "T" "T"
## [1729] "T" "G" "A" "C" "A" "T" "A" "T" "T" "A" "A" "T" "G" "G" "C" "T" "A" "T"
## [1747] "A" "G" "C" "T" "A" "C" "A" "T" "G" "A" "C" "T" "T" "A" "C" "C" "C" "A"
## [1765] "C" "T" "A" "A" "A" "T" "C" "T" "T" "G" "G" "T" "C" "G" "G" "A" "G" "T"
## [1783] "A" "G" "G" "T" "G" "C" "G" "T" "G" "T" "T" "A" "A" "G" "T" "T" "A" "A"
## [1801] "T" "T" "T" "C" "C" "A" "C" "G" "A" "C" "T" "A" "A" "A" "A" "G" "A" "T"
## [1819] "C" "G" "A" "G" "G" "A" "T" "G" "A" "G" "A" "T" "T" "A" "T" "A" "T" "G"
## [1837] "G" "T" "A" "A" "A" "T" "C" "T" "T" "A" "T" "C" "T" "T" "C" "A" "C" "T"
## [1855] "T" "A" "T" "C" "C" "T" "G" "T" "G" "C" "C" "C" "A" "G" "T" "A" "G" "T"
## [1873] "T" "G" "A" "T" "G" "T" "A" "T" "A" "C" "C" "A" "A" "C" "T" "A" "C" "A"
## [1891] "A" "C" "T" "C" "A" "T" "G" "T" "A" "C" "T" "G" "A" "C" "A" "T" "T" "T"
## [1909] "G" "A" "T" "G" "T" "A" "A" "G" "A" "A" "C" "C" "A" "C" "T" "T" "T" "A"
## [1927] "C" "G" "T" "C" "G" "A" "T" "G" "T" "C" "A" "A" "C" "A" "C" "T" "A" "C"
## [1945] "T" "A" "A" "G" "G" "A" "T" "T" "C" "T" "T" "T" "T" "G" "T" "T" "C" "T"
## [1963] "T" "T" "A" "A" "A" "G" "T" "A" "C" "A" "A" "G" "C" "A" "A" "A" "T" "C"
## [1981] "C" "G" "C" "A" "C" "T" "G" "T" "T" "T" "A" "A" "A" "G" "T" "A" "A" "T"
## [1999] "A" "C" "T" "A" "G" "A" "A" "C" "G" "T" "C" "A" "A" "G" "T" "T" "C" "A"
## [2017] "C" "T" "C" "T" "T" "G" "G" "T" "T" "T" "T" "C" "T" "A" "T" "T" "A" "T"
## [2035] "T" "C" "G" "T" "A" "T" "T" "A" "A" "T" "T" "T" "T" "G" "T" "T" "C" "C"
## [2053] "T" "T" "A" "T" "C" "G" "T" "C" "T" "T" "T" "C" "C" "G" "A" "T" "T" "T"
## [2071] "T" "T" "C" "G" "T" "G" "T" "T" "T" "A" "T" "C" "T" "T" "C" "A" "G" "T"
## [2089] "T" "A" "A" "T" "T" "A" "C" "T" "T" "T" "C" "A" "A" "G" "T" "T" "A" "G"
## [2107] "T" "A" "A" "G" "A" "C" "A" "G" "A" "A" "A" "G" "A" "A" "A" "A" "C" "T"
## [2125] "C" "A" "C" "A" "C" "T" "T" "C" "G" "T" "T" "T" "C" "A" "C" "A" "A" "T"
## [2143] "A" "T" "T" "T" "G" "T" "G" "A" "T" "A" "A" "C" "G" "G" "C" "G" "T" "T"
## [2161] "G" "T" "T" "A" "T" "T" "C" "T" "T" "T" "T" "T" "A" "A" "C" "C" "T" "C"
## [2179] "T" "C" "A" "T" "T" "T" "C" "A" "A" "G" "A" "A" "C" "T" "T" "G" "A" "A"
## [2197] "G" "G" "A" "G" "A" "A" "C" "A" "G" "A" "C" "T" "A" "C" "T" "T" "G" "T"
## [2215] "C" "A" "A" "A" "T" "C" "C" "A" "C" "T" "T" "C" "G" "A" "C" "T" "A" "G"
## [2233] "A" "C" "C" "G" "T" "G" "C" "A" "T" "T" "G" "A" "C" "T" "A" "T" "C" "T"
## [2251] "G" "C" "A" "C" "A" "A" "A" "A" "T" "G" "C" "G" "G" "C" "A" "G" "T" "C"
## [2269] "C" "T" "G" "T" "T" "C" "G" "T" "T" "T" "T" "C" "G" "T" "T" "T" "A" "A"
## [2287] "C" "T" "C" "A" "C" "G" "A" "T" "T" "T" "C" "G" "T" "T" "C" "A" "G" "T"
## [2305] "C" "A" "C" "G" "T" "T" "T" "A" "A" "A" "C" "A" "A" "T" "A" "G" "T" "C"

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## [2323] "G" "A" "T" "C" "T" "C" "C" "T" "A" "C" "T" "T" "T" "A" "C" "C" "A" "C"
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## [2449] "G" "G" "T" "T" "C" "T" "T" "T" "T" "C" "T" "T" "A" "T" "T" "A" "A" "A"
## [2467] "A" "G" "T" "A" "C" "A" "A" "G" "C" "A" "A" "A" "T" "T" "A" "G" "T" "T"
## [2485] "A" "G" "A" "G" "G" "T" "A" "A" "C" "C" "A" "A" "C" "G" "A" "G" "A" "A"
## [2503] "G" "T" "A" "G" "A" "T" "T" "A" "A" "C" "T" "C" "T" "T" "A" "T" "A" "A"
## [2521] "A" "T" "A" "A" "G" "A" "G" "T" "C" "A" "A" "T" "C" "A" "C" "T" "G" "A"
## [2539] "A" "T" "C" "T" "A" "T" "T" "T" "A" "A" "A" "A" "A" "T" "T" "A" "A" "T"
## [2557] "A" "C" "T" "C" "C" "A" "A" "A" "T" "A" "C" "T" "A" "C" "A" "T" "T" "A"
## [2575] "G" "T" "T" "C" "T" "A" "A" "G" "G" "T" "T" "T" "A" "C" "C" "T" "T" "T"
## [2593] "G" "A" "A" "A" "T" "T" "T" "T" "C" "A" "G" "G" "A" "G" "T" "A" "T" "T"
## [2611] "A" "T" "T" "A" "A" "T" "C" "A" "T" "T" "A" "T" "A" "G" "A" "G" "A" "C"
## [2629] "G" "A" "T" "A" "T" "C" "A" "T" "T" "G" "G" "A" "C" "T" "T" "T" "C" "A"
## [2647] "G" "T" "T" "G" "C" "T" "C" "T" "A" "C" "T" "T" "T" "G" "T" "A" "G" "A"
## [2665] "C" "A" "A" "C" "A" "G" "T" "G" "A" "A" "T" "G" "A" "C" "A" "T" "G" "T"
## [2683] "T" "C" "G" "T" "T" "T" "C" "G" "T" "T" "A" "T" "A" "A" "C" "A" "G" "T"
## [2701] "G" "A" "C" "G" "A" "T" "G" "A" "C" "C" "T" "T" "A" "C" "C" "A" "G" "A"
## [2719] "C" "A" "C" "A" "A" "A" "T" "T" "A" "A" "A" "T" "A" "T" "C" "A" "A" "C"
## [2737] "G" "G" "T" "T" "A" "G" "G" "A" "C" "A" "T" "C" "G" "C" "T" "G" "A" "C"
## [2755] "A" "T" "A" "C" "G" "T" "C" "G" "T" "T" "T" "T" "G" "G" "A" "C" "T" "C"
## [2773] "A" "G" "T" "G" "G" "A" "C" "G" "A" "T" "G" "T" "G" "C" "G" "A" "C" "G"
## [2791] "C" "T" "T" "C" "G" "A" "G" "G" "G" "T" "T" "A" "A" "A" "C" "A" "T" "T"
## [2809] "A" "T" "T" "C" "T" "T" "T" "C" "G" "C" "A" "A" "G" "C" "A" "C" "T" "A"
## [2827] "C" "A" "T" "C" "G" "T" "T" "G" "T" "C" "A" "C" "T" "A" "A" "A" "G" "A"
## [2845] "A" "A" "T" "C" "C" "G" "T" "C" "C" "A" "G" "G" "A" "A" "C" "T" "A" "C"
## [2863] "A" "G" "T" "G" "T" "C" "G" "C" "A" "G" "G" "A" "T" "C" "T" "A" "C" "C"
## [2881] "A" "C" "A" "G" "G" "T" "C" "G" "T" "T" "A" "T" "G" "C" "T" "T" "C" "T"
## [2899] "A" "C" "A" "G" "G" "T" "G" "C" "T" "T" "C" "C" "T" "A" "G" "T" "G" "T"
## [2917] "C" "G" "A" "G" "G" "C" "T" "A" "A" "T" "G" "C" "T" "C" "A" "A" "G" "T"
## [2935] "G" "A" "A" "A" "G" "A" "T" "C" "T" "T" "C" "G" "C" "C" "A" "G" "A" "C"
## [2953] "C" "A" "G" "T" "C" "T" "T" "A" "T" "C" "A" "C" "G" "G" "T" "A" "C" "C"
## [2971] "T" "C" "A" "C" "C" "G" "T" "G" "C" "A" "A" "C" "T" "C" "T" "T" "C" "T"
## [2989] "T" "A" "C" "A" "A" "T" "C" "A" "A" "A" "G" "A" "C" "C" "T" "A" "A" "C"
## [3007] "T" "T" "A" "C" "T" "G" "G" "T" "G" "T" "A" "C" "C" "T" "T" "G" "C" "G"
## [3025] "C" "A" "T" "G" "C" "G" "C" "G" "T" "T" "T" "G" "T" "C" "A" "G" "A" "C"
## [3043] "T" "T" "T" "C" "T" "T" "C" "G" "T" "T" "A" "C" "T" "T" "C" "A" "T" "C"
## [3061] "G" "A" "C" "T" "C" "G" "G" "T" "G" "T" "A" "G" "T" "T" "C" "G" "G" "A"
## [3079] "T" "G" "T" "T" "C" "T" "G" "T" "T" "C" "G" "G" "T" "A" "A" "C" "G" "C"
## [3097] "Y" "A" "T" "C" "G" "T" "T" "A" "A" "G" "G" "T" "G" "G" "C" "C" "A" "C"
## [3115] "T" "A" "G" "G" "T" "T" "A" "A" "A" "T" "A" "A" "G" "A" "C" "A" "T" "T"
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## [3151] "G" "T" "T" "C" "G" "A" "T" "T" "T" "C" "A" "A" "T" "G" "A" "C" "C" "G"
## [3169] "G" "T" "A" "T" "T" "G" "T" "C" "G" "G" "T" "C" "T" "C" "C" "T" "T" "T"
## [3187] "T" "A" "A" "T" "T" "G" "A" "A" "T" "T" "A" "A" "T" "A" "T" "A" "T" "G"
## [3205] "T" "T" "T" "T" "T" "G" "G" "A" "T" "A" "A" "G" "G" "A" "C" "A" "A" "C"
## [3223] "C" "G" "T" "A" "T" "C" "C" "G" "T" "T" "T" "A" "A" "C" "A" "T" "C" "T"
## [3241] "T" "C" "T" "G" "T" "T" "T" "A" "G" "G" "T" "A" "C" "A" "T" "T" "C" "C"
## [3259] "T" "T" "A" "T" "C" "C" "T" "T" "T" "G" "G" "A" "T" "A" "A" "T" "G" "A"
## [3277] "T" "C" "C" "A" "A" "G" "G" "T" "A" "A" "C" "A" "A" "G" "T" "T" "C" "C"

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## [3295] "T" "C" "G" "A" "A" "A" "A" "A" "T" "T" "C" "G" "A" "G" "A" "A" "G" "T"
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## [3367] "T" "T" "T" "T" "G" "A" "T" "T" "A" "T" "A" "T" "T" "A" "T" "A" "A" "A"
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## [3475] "G" "C" "A" "A" "T" "T" "G" "T" "T" "A" "T" "A" "A" "C" "G" "T" "C" "G"
## [3493] "T" "C" "A" "T" "G" "C" "G" "T" "G" "T" "G" "T" "T" "A" "G" "C" "T" "T"
## [3511] "C" "G" "C" "G" "T" "C" "A" "T" "T" "C" "C" "T" "A" "C" "C" "G" "A" "T"
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## [3547] "G" "G" "T" "G" "C" "T" "T" "T" "C" "G" "T" "T" "C" "T" "T" "T" "T" "T"
## [3565] "C" "T" "T" "C" "A" "T" "G" "C" "G" "A" "T" "A" "A" "T" "T" "G" "A" "T"
## [3583] "A" "A" "T" "T" "G" "C" "A" "T" "G" "G" "A" "C" "A" "G" "A" "G" "A" "A"
## [3601] "G" "G" "C" "T" "T" "T" "G" "C" "T" "T" "A" "C" "T" "C" "A" "T" "G" "T"
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## [3655] "G" "C" "G" "A" "T" "C" "A" "T" "C" "A" "G" "C" "A" "G" "C" "A" "G" "C"
## [3673] "C" "A" "A" "G" "T" "A" "G" "T" "A" "T" "T" "T" "A" "A" "C" "C" "A" "A"
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## [3763] "G" "T" "T" "A" "A" "A" "A" "T" "A" "A" "C" "A" "T" "C" "T" "A" "C" "T"
## [3781] "T" "C" "T" "T" "C" "C" "A" "T" "T" "G" "T" "A" "C" "A" "A" "G" "T" "T"
## [3799] "G" "T" "G" "G" "T" "C" "A" "C" "A" "G" "A" "C" "A" "T" "G" "A" "G" "T"
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## [3853] "T" "C" "A" "T" "T" "G" "A" "C" "A" "C" "A" "T" "T" "A" "T" "G" "T" "T"
## [3871] "G" "T" "G" "T" "C" "A" "G" "A" "A" "A" "A" "T" "G" "A" "G" "G" "T" "C"
## [3889] "T" "A" "A" "G" "G" "G" "T" "A" "A" "A" "A" "A" "G" "T" "C" "A" "T" "A"
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## [3961] "T" "T" "C" "A" "T" "T" "A" "C" "T" "G" "T" "T" "A" "A" "C" "T" "T" "C"
## [3979] "T" "T" "C" "A" "A" "T" "G" "T" "G" "A" "T" "A" "A" "C" "A" "T" "T" "C"
## [3997] "C" "A" "T" "A" "T" "G" "T" "T" "A" "T" "C" "A" "G" "C" "A" "T" "T" "G"
## [4015] "T" "T" "A" "A" "T" "C" "A" "T" "A" "C" "G" "G" "T" "C" "G" "T" "T" "T"
## [4033] "C" "T" "T" "T" "T" "A" "T" "C" "A" "A" "C" "C" "G" "T" "A" "G" "T" "A"
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## [4069] "T" "T" "G" "C" "C" "G" "T" "A" "A" "A" "G" "G" "T" "C" "G" "T" "T" "T"
## [4087] "C" "G" "G" "T" "T" "T" "C" "G" "G" "A" "G" "T" "A" "A" "T" "A" "A" "T"
## [4105] "A" "A" "G" "A" "A" "T" "G" "T" "T" "T" "C" "A" "A" "A" "T" "A" "T" "G"
## [4123] "A" "G" "A" "C" "G" "T" "T" "C" "T" "T" "C" "A" "T" "C" "T" "G" "A" "T"
## [4141] "T" "T" "C" "G" "T" "A" "T" "T" "T" "C" "T" "A" "T" "C" "T" "C" "T" "T"
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## [4177] "G" "T" "C" "G" "T" "T" "G" "C" "T" "C" "G" "T" "T" "T" "T" "C" "C" "A"
## [4195] "C" "A" "C" "T" "C" "A" "T" "T" "T" "G" "A" "C" "A" "A" "T" "G" "T" "T"
## [4213] "T" "G" "T" "T" "G" "T" "T" "G" "T" "C" "G" "T" "T" "C" "A" "A" "C" "G"
## [4231] "T" "T" "T" "G" "T" "T" "T" "C" "A" "C" "T" "T" "G" "T" "G" "G" "G" "A"
## [4249] "A" "C" "C" "T" "C" "T" "C" "A" "C" "G" "A" "T" "C" "A" "A" "C" "G" "G"

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## [4267] "T" "A" "G" "A" "G" "A" "A" "A" "A" "A" "C" "T" "C" "C" "C" "A" "A" "T"
## [4285] "A" "C" "T" "A" "A" "A" "A" "C" "C" "T" "T" "C" "G" "C" "G" "A" "G" "A"
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## [4321] "G" "T" "T" "G" "C" "G" "G" "T" "T" "G" "T" "T" "A" "T" "T" "C" "G" "G"
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## [4429] "T" "T" "C" "A" "A" "T" "G" "T" "C" "A" "A" "G" "G" "T" "T" "A" "A" "C"
## [4447] "A" "C" "T" "T" "C" "T" "A" "A" "G" "A" "G" "T" "A" "T" "T" "T" "G" "T"
## [4465] "T" "T" "A" "G" "G" "T" "A" "T" "T" "C" "A" "A" "G" "C" "A" "A" "A" "T"
## [4483] "A" "C" "A" "C" "A" "T" "T" "A" "C" "A" "T" "T" "A" "A" "A" "C" "T" "G"
## [4501] "A" "G" "G" "A" "A" "A" "C" "T" "C" "G" "T" "G" "A" "C" "C" "G" "A" "G"
## [4519] "T" "C" "T" "C" "A" "G" "C" "A" "G" "A" "A" "G" "T" "A" "G" "T" "T" "T"
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## [4555] "T" "C" "T" "T" "G" "T" "T" "G" "T" "C" "G" "G" "G" "A" "A" "C" "T" "C"
## [4573] "T" "G" "T" "T" "G" "A" "T" "G" "T" "C" "G" "T" "T" "G" "A" "C" "C" "A"
## [4591] "G" "T" "A" "T" "G" "T" "C" "G" "T" "T" "T" "C" "G" "T" "A" "T" "T" "A"
## [4609] "A" "C" "A" "G" "T" "G" "G" "T" "A" "A" "T" "G" "A" "T" "A" "C" "C" "G"
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## [4645] "T" "G" "G" "A" "T" "C" "G" "G" "T" "T" "T" "A" "C" "A" "T" "G" "G" "T"
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## [4681] "G" "A" "G" "T" "A" "T" "G" "A" "A" "A" "G" "G" "T" "T" "C" "A" "A" "G"
## [4699] "A" "A" "C" "C" "T" "C" "T" "A" "G" "C" "T" "A" "C" "T" "C" "T" "C" "T"
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## [4789] "C" "G" "G" "T" "C" "T" "C" "T" "A" "C" "A" "G" "T" "G" "G" "A" "T" "T"
## [4807] "T" "A" "G" "T" "T" "G" "T" "A" "G" "A" "C" "C" "A" "C" "T" "A" "C" "A"
## [4825] "T" "A" "C" "T" "A" "A" "G" "A" "A" "T" "T" "T" "T" "A" "T" "A" "A" "A"
## [4843] "T" "A" "G" "A" "T" "T" "G" "A" "G" "G" "A" "G" "G" "A" "A" "C" "T" "T"
## [4861] "A" "C" "T" "C" "A" "G" "A" "T" "T" "A" "A" "G" "T" "C" "C" "A" "A" "C"
## [4879] "G" "T" "T" "T" "C" "C" "T" "A" "G" "T" "A" "T" "T" "T" "G" "A" "C" "A"
## [4897] "C" "A" "A" "C" "A" "A" "C" "T" "G" "T" "T" "A" "A" "G" "G" "A" "T" "A"
## [4915] "A" "T" "G" "T" "T" "G" "T" "A" "G" "T" "G" "T" "C" "A" "A" "T" "G" "G"
## [4933] "T" "C" "T" "G" "T" "G" "T" "T" "T" "A" "C" "A" "C" "A" "A" "C" "A" "G"
## [4951] "A" "C" "A" "T" "C" "A" "T" "T" "A" "C" "T" "A" "A" "A" "C" "A" "C" "C"
## [4969] "A" "A" "G" "T" "A" "T" "T" "T" "T" "T" "A" "A" "G" "G" "A" "A" "A" "C"
## [4987] "A" "C" "A" "A" "T" "G" "T" "T" "T" "G" "G" "T" "C" "A" "C" "A" "C" "A"
## [5005] "C" "G" "G" "T" "A" "A" "A" "C" "T" "T" "T" "G" "T" "T" "T" "C" "T" "G"
## [5023] "T" "G" "G" "A" "A" "G" "T" "G" "C" "T" "C" "C" "T" "T" "T" "C" "A" "C"
## [5041] "A" "C" "G" "A" "A" "A" "A" "G" "G" "T" "A" "G" "T" "A" "C" "T" "G" "T"
## [5059] "T" "T" "A" "C" "C" "G" "T" "C" "C" "T" "C" "G" "T" "C" "A" "A" "C" "A"
## [5077] "C" "T" "T" "C" "A" "A" "G" "A" "A" "A" "A" "G" "A" "A" "C" "A" "C" "G"
## [5095] "T" "C" "C" "C" "T" "G" "T" "A" "T" "T" "C" "A" "G" "T" "G" "T" "A" "C"
## [5113] "G" "T" "T" "C" "T" "T" "C" "T" "G" "A" "T" "G" "T" "G" "G" "T" "A" "C"
## [5131] "T" "C" "C" "A" "C" "G" "A" "C" "T" "G" "A" "C" "T" "C" "C" "C" "T" "T"
## [5149] "C" "C" "T" "G" "T" "A" "T" "T" "C" "T" "A" "C" "T" "A" "T" "C" "G" "G"
## [5167] "G" "A" "A" "A" "G" "G" "T" "G" "T" "T" "T" "T" "A" "G" "T" "T" "G"
## [5185] "A" "G" "A" "A" "A" "A" "A" "C" "T" "A" "A" "C" "A" "G" "G" "T" "T" "C"
## [5203] "A" "T" "G" "T" "G" "T" "G" "A" "G" "A" "C" "T" "G" "T" "A" "A" "A" "A"
## [5221] "T" "C" "A" "T" "C" "G" "T" "C" "G" "T" "T" "C" "T" "A" "A" "T" "C" "G"

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## [5239] "T" "C" "T" "T" "C" "G" "A" "G" "A" "C" "T" "A" "A" "A" "G" "A" "C" "G"
## [5257] "T" "C" "G" "A" "G" "A" "T" "T" "A" "A" "T" "T" "A" "A" "C" "A" "A" "C"
## [5275] "T" "C" "A" "G" "T" "G" "T" "A" "T" "A" "C" "A" "G" "A" "C" "G" "T" "T"
## [5293] "T" "G" "A" "A" "A" "C" "T" "T" "C" "A" "G" "A" "C" "G" "G" "A" "C" "A"
## [5311] "C" "T" "A" "G" "T" "T" "G" "G" "A" "T" "A" "G" "T" "T" "A" "A" "A" "C"
## [5329] "G" "T" "G" "A" "A" "G" "T" "C" "G" "G" "A" "G" "T" "T" "G" "A" "A" "A"
## [5347] "C" "A" "G" "T" "T" "C" "T" "G" "C" "A" "C" "T" "T" "T" "C" "C" "T" "A"
## [5365] "T" "A" "G" "T" "A" "A" "A" "T" "T" "T" "T" "G" "T" "G" "A" "A" "C" "T"
## [5383] "T" "T" "A" "A" "C" "G" "T" "G" "G" "T" "T" "T" "T" "A" "A" "C" "C" "T"
## [5401] "C" "G" "A" "T" "T" "C" "A" "A" "C" "A" "A" "A" "T" "T" "G" "T" "T" "C"
## [5419] "G" "C" "A" "C" "A" "A" "A" "T" "T" "T" "C" "G" "A" "A" "C" "A" "C" "G"
## [5437] "T" "A" "A" "A" "A" "C" "C" "A" "A" "C" "T" "G" "G" "T" "G" "T" "A" "A"
## [5455] "A" "A" "C" "T" "T" "C" "A" "A" "A" "A" "G" "G" "T" "T" "C" "A" "C" "G"
## [5473] "T" "G" "A" "A" "C" "G" "A" "C" "A" "C" "C" "T" "T" "C" "T" "T" "T" "C"
## [5491] "A" "C" "T" "C" "A" "G" "A" "A" "C" "T" "T" "A" "A" "A" "A" "C" "G" "G"
## [5509] "T" "T" "A" "T" "C" "G" "T" "G" "A" "T" "A" "A" "T" "T" "T" "A" "A" "C"
## [5527] "C" "A" "A" "C" "C" "G" "T" "T" "A" "G" "T" "T" "A" "A" "A" "A" "A" "C"
## [5545] "C" "A" "A" "G" "A" "G" "T" "A" "T" "C" "T" "C" "T" "T" "G" "T" "A" "A"
## [5563] "G" "A" "C" "A" "C" "A" "T" "T" "G" "A" "G" "G" "T" "T" "A" "T" "G" "G"
## [5581] "T" "A" "A" "T" "T" "T" "G" "G" "A" "T" "A" "T" "T" "C" "G" "G" "T" "A"
## [5599] "A" "A" "C" "G" "T" "A" "T" "C" "G" "T" "T" "T" "A" "C" "C" "A" "T" "A"
## [5617] "A" "A" "C" "A" "T" "T" "A" "C" "G" "T" "C" "G" "T" "G" "G" "A" "C" "G"
## [5635] "T" "G" "G" "T" "T" "T" "C" "C" "A" "G" "G" "T" "T" "G" "G" "T" "C" "T"
## [5653] "T" "C" "A" "C" "T" "A" "A" "C" "A" "T" "G" "G" "G" "C" "G" "A" "T" "T"
## [5671] "G" "T" "C" "A" "C" "G" "T" "C" "T" "T" "C" "A" "C" "A" "T" "A" "A" "C"
## [5689] "T" "C" "G" "T" "T" "A" "G" "T" "A" "A" "A" "G" "T" "A" "G" "A" "C" "A"
## [5707] "C" "T" "C" "G" "T" "T" "T" "C" "C" "A" "C" "C" "G" "T" "T" "T" "T" "G"
## [5725] "T" "C" "A" "T" "T" "C" "C" "G" "G" "C" "A" "A" "T" "T" "T" "G" "A" "A"
## [5743] "A" "A" "C" "A" "C" "G" "T" "G" "T" "T" "T" "A" "C" "T" "C" "C" "A" "G"
## [5761] "A" "G" "A" "T" "C" "G" "T" "C" "G" "T" "T" "A" "T" "A" "G" "T" "G" "G"
## [5779] "T" "T" "C" "C" "G" "T" "T" "A" "G" "T" "G" "G" "T" "A" "T" "A" "A" "C"
## [5797] "A" "A" "A" "C" "T" "A" "C" "T" "T" "C" "G" "G" "T" "C" "G" "T" "A" "G"
## [5815] "A" "C" "G" "T" "T" "C" "A" "C" "A" "G" "T" "G" "A" "A" "A" "C" "A" "A"
## [5833] "C" "T" "T" "T" "T" "C" "A" "T" "C" "T" "A" "G" "A" "A" "G" "T" "T" "A"
## [5851] "T" "T" "T" "A" "C" "T" "G" "G" "A" "G" "A" "A" "C" "G" "A" "A" "C" "C"
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## [5887] "A" "T" "A" "A" "A" "C" "A" "C" "T" "T" "T" "T" "T" "A" "A" "T" "T" "T"
## [5905] "T" "G" "G" "T" "G" "G" "T" "T" "T" "T" "A" "G" "A" "A" "A" "T" "T" "A"
## [5923] "A" "C" "C" "A" "C" "C" "A" "C" "A" "A" "A" "A" "C" "A" "T" "T" "T" "A"
## [5941] "A" "A" "C" "A" "A" "A" "C" "T" "G" "A" "A" "C" "A" "C" "G" "T" "T" "T"
## [5959] "T" "T" "G" "A" "A" "G" "A" "A" "C" "C" "C" "A" "C" "A" "A" "A" "A" "A"
## [5977] "C" "A" "G" "A" "A" "C" "A" "A" "G" "T" "T" "G" "T" "C" "G" "A" "T" "A"
## [5995] "A" "G" "G" "T" "C" "A" "A" "T" "T" "T" "C" "G" "T" "G" "C" "C" "A" "A"
## [6013] "A" "T" "T" "A" "A" "C" "A" "C" "A" "T" "G" "T" "T" "T" "T" "T" "G" "A"
## [6031] "C" "G" "G" "T" "A" "T" "A" "A" "C" "G" "T" "T" "G" "T" "T" "T" "T" "C"
## [6049] "T" "A" "A" "C" "G" "A" "C" "G" "T" "A" "A" "G" "T" "C" "A" "A" "C" "T"
## [6067] "T" "A" "G" "T" "G" "G" "T" "G" "T" "T" "T" "A" "C" "A" "T" "G" "T" "A"
## [6085] "A" "C" "A" "T" "G" "T" "T" "A" "G" "A" "T" "G" "A" "C" "T" "A" "C" "A"
## [6103] "G" "A" "A" "C" "C" "A" "G" "T" "A" "T" "C" "T" "G" "T" "G" "A" "C" "C"
## [6121] "A" "T" "C" "T" "T" "A" "A" "A" "G" "A" "C" "A" "C" "C" "A" "T" "T" "G"
## [6139] "T" "G" "A" "T" "T" "A" "T" "C" "A" "T" "T" "T" "T" "A" "A" "A" "C" "A"
## [6157] "C" "C" "C" "A" "T" "A" "C" "C" "G" "T" "T" "A" "T" "C" "T" "C" "A" "A"
## [6175] "T" "A" "A" "T" "C" "T" "C" "A" "T" "T" "C" "G" "T" "T" "G" "A" "C" "T"
## [6193] "T" "A" "A" "A" "A" "G" "A" "C" "G" "T" "G" "G" "T" "T" "C" "A" "C" "T"

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## [6211] "G" "T" "A" "T" "C" "A" "C" "A" "T" "C" "C" "G" "T" "T" "A" "C" "T" "A"
## [6229] "C" "C" "T" "A" "A" "C" "T" "G" "A" "T" "C" "G" "A" "T" "G" "T" "G" "A"
## [6247] "T" "G" "C" "A" "C" "G" "G" "G" "C" "G" "G" "C" "T" "G" "C" "T" "C" "T"
## [6265] "T" "A" "A" "T" "C" "A" "G" "A" "C" "T" "C" "A" "G" "A" "C" "T" "A" "T"
## [6283] "T" "G" "A" "T" "C" "G" "C" "G" "T" "A" "T" "A" "T" "G" "G" "A" "C" "G"
## [6301] "T" "G" "G" "T" "T" "A" "C" "C" "C" "A" "T" "A" "C" "A" "G" "T" "G" "T"
## [6319] "G" "A" "G" "T" "A" "T" "A" "C" "T" "C" "A" "A" "C" "A" "A" "C" "T" "G"
## [6337] "T" "A" "C" "A" "A" "G" "T" "C" "G" "G" "G" "G" "A" "T" "A" "A" "T" "T"
## [6355] "T" "G" "T" "C" "G" "G" "A" "C" "G" "T" "G" "C" "A" "C" "A" "A" "A" "C"
## [6373] "T" "T" "T" "T" "T" "G" "T" "A" "A" "T" "C" "T" "T" "G" "G" "A" "C" "A"
## [6391] "T" "C" "T" "T" "A" "T" "T" "T" "G" "T" "G" "C" "G" "G" "T" "T" "C" "A"
## [6409] "T" "C" "C" "T" "C" "A" "T" "T" "C" "A" "A" "C" "T" "A" "G" "A" "C" "G"
## [6427] "T" "A" "C" "T" "T" "A" "T" "C" "G" "T" "T" "G" "T" "C" "C" "C" "T" "G"
## [6445] "A" "A" "G" "A" "C" "A" "C" "G" "T" "C" "A" "A" "T" "T" "G" "T" "G" "G"
## [6463] "G" "A" "C" "T" "A" "T" "T" "T" "C" "T" "T" "G" "T" "C" "G" "T" "T" "G"
## [6481] "G" "A" "C" "C" "A" "A" "T" "C" "T" "T" "C" "A" "T" "A" "A" "A" "C" "A"
## [6499] "A" "G" "G" "A" "C" "C" "A" "C" "A" "A" "T" "A" "T" "T" "G" "T" "G" "A"
## [6517] "C" "T" "G" "T" "G" "G" "T" "G" "G" "T" "T" "T" "T" "C" "T" "T" "G" "T"
## [6535] "A" "C" "C" "A" "C" "A" "T" "T" "A" "C" "A" "G" "T" "T" "C" "T" "T" "A"
## [6553] "G" "A" "G" "T" "T" "C" "A" "C" "A" "G" "A" "C" "A" "C" "C" "T" "A" "G"
## [6571] "T" "G" "C" "C" "T" "G" "T" "C" "G" "T" "A" "G" "T" "C" "A" "T" "C" "A"
## [6589] "C" "A" "G" "T" "C" "G" "T" "T" "A" "C" "A" "G" "A" "G" "A" "C" "G" "G"
## [6607] "T" "T" "T" "A" "A" "C" "A" "A" "C" "C" "T" "T" "T" "C" "C" "G" "T" "C"
## [6625] "T" "T" "T" "G" "A" "A" "A" "A" "A" "C" "A" "A" "T" "C" "T" "G" "A" "G"
## [6643] "T" "C" "A" "T" "T" "C" "T" "T" "G" "T" "G" "G" "A" "C" "A" "C" "G" "G"
## [6661] "A" "C" "A" "A" "T" "T" "T" "G" "G" "T" "A" "A" "C" "T" "T" "C" "A" "A"
## [6679] "C" "T" "T" "T" "A" "A" "C" "T" "G" "T" "G" "T" "A" "A" "A" "C" "A" "A"
## [6697] "A" "A" "A" "T" "T" "G" "G" "T" "T" "T" "A" "A" "T" "C" "A" "T" "C" "T"
## [6715] "G" "A" "A" "A" "A" "A" "T" "C" "C" "A" "G" "G" "T" "G" "T" "T" "T" "G"
## [6733] "T" "C" "A" "A" "C" "G" "A" "C" "C" "A" "C" "G" "T" "A" "C" "A" "T" "C"
## [6751] "T" "T" "C" "A" "A" "G" "T" "T" "T" "T" "C" "T" "T" "T" "C" "A" "T" "G"
## [6769] "A" "T" "G" "A" "T" "G" "A" "G" "A" "C" "A" "T" "A" "C" "C" "A" "A" "C"
## [6787] "C" "A" "T" "T" "G" "G" "T" "T" "G" "T" "G" "G" "T" "A" "A" "T" "C" "A"
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## [6823] "A" "A" "C" "A" "T" "T" "T" "C" "C" "T" "T" "T" "C" "A" "T" "T" "G" "T"
## [6841] "T" "A" "A" "T" "T" "T" "T" "G" "G" "A" "A" "G" "T" "T" "G" "T" "G" "G"
## [6859] "T" "A" "A" "T" "G" "T" "T" "C" "C" "A" "A" "A" "C" "G" "A" "T" "G" "G"
## [6877] "C" "C" "G" "G" "A" "C" "T" "A" "T" "C" "T" "A" "A" "A" "G" "T" "C" "A"
## [6895] "A" "C" "T" "T" "T" "A" "T" "A" "G" "A" "G" "A" "G" "A" "G" "T" "T" "T"
## [6913] "T" "C" "C" "A" "A" "A" "C" "T" "C" "T" "A" "A" "T" "C" "T" "G" "A" "A"
## [6931] "G" "G" "A" "T" "T" "T" "G" "T" "T" "A" "G" "A" "T" "A" "T" "G" "G" "C"
## [6949] "C" "A" "T" "T" "A" "A" "T" "A" "T" "T" "A" "A" "T" "G" "G" "T" "G" "G"
## [6967] "T" "T" "G" "G" "A" "A" "T" "C" "T" "T" "A" "G" "T" "T" "C" "T" "A" "A"
## [6985] "C" "A" "A" "T" "C" "T" "T" "A" "A" "G" "G" "T" "T" "C" "G" "A" "T" "A"
## [7003] "T" "T" "G" "C" "G" "T" "C" "G" "G" "A" "C" "A" "T" "T" "T" "T" "A" "G"
## [7021] "T" "A" "G" "A" "C" "C" "A" "T" "T" "A" "A" "A" "T" "A" "T" "T" "A" "A"
## [7039] "T" "A" "T" "T" "A" "G" "T" "C" "G" "T" "T" "A" "G" "A" "A" "A" "G" "G"
## [7057] "T" "C" "A" "A" "A" "C" "G" "G" "G" "A" "C" "C" "T" "C" "G" "C" "T" "A"
## [7075] "A" "A" "C" "A" "G" "A" "C" "T" "G" "A" "A" "G" "T" "A" "G" "T" "G" "G"
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## [7147] "T" "C" "A" "T" "C" "C" "T" "C" "T" "G" "T" "G" "A" "G" "G" "T" "A" "T"
## [7165] "T" "G" "T" "G" "A" "A" "T" "T" "T" "T" "C" "A" "C" "C" "T" "T" "T" "T"

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## [7183] "A" "C" "T" "A" "C" "G" "C" "C" "T" "T" "A" "A" "T" "A" "T" "A" "T" "C"
## [7201] "C" "T" "G" "T" "C" "T" "T" "A" "T" "T" "A" "G" "T" "C" "G" "T" "T" "G"
## [7219] "T" "G" "T" "C" "A" "A" "C" "G" "A" "C" "T" "A" "A" "G" "A" "G" "A" "A"
## [7237] "G" "G" "A" "C" "A" "A" "G" "G" "T" "T" "C" "G" "T" "A" "T" "T" "T" "G"
## [7255] "T" "C" "T" "A" "C" "G" "T" "T" "T" "A" "G" "A" "C" "C" "A" "C" "C" "G"
## [7273] "C" "A" "A" "T" "T" "T" "T" "T" "G" "A" "A" "G" "T" "G" "G" "T" "T" "T"
## [7291] "T" "C" "C" "C" "G" "T" "G" "T" "T" "C" "A" "A" "A" "C" "A" "T" "T" "A"
## [7309] "T" "A" "A" "T" "C" "C" "T" "T" "T" "A" "G" "A" "T" "T" "G" "T" "T" "A"
## [7327] "T" "C" "T" "A" "A" "G" "A" "C" "A" "A" "C" "C" "A" "A" "C" "C" "T" "G"
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## [7381] "T" "C" "A" "C" "T" "T" "C" "C" "T" "A" "A" "A" "G" "T" "T" "G" "C" "A"
## [7399] "T" "G" "T" "G" "A" "A" "A" "C" "A" "A" "A" "G" "A" "C" "T" "C" "T" "C"
## [7417] "T" "C" "C" "C" "A" "G" "T" "T" "C" "A" "C" "G" "T" "G" "T" "C" "A" "G"
## [7435] "A" "T" "G" "T" "C" "G" "T" "A" "G" "A" "C" "A" "T" "T" "A" "C" "C" "A"
## [7453] "A" "G" "G" "T" "A" "A" "A" "A" "G" "T" "A" "A" "T" "A" "T" "A" "A" "A"
## [7471] "A" "T" "T" "A" "T" "C" "T" "T" "T" "T" "C" "A" "G" "G" "A" "T" "C" "C"
## [7489] "A" "A" "C" "T" "T" "C" "T" "A" "T" "T" "G" "G" "G" "T" "G" "T" "A" "T"
## [7507] "T" "A" "T" "T" "C" "G" "A" "C" "G" "T" "C" "G" "T" "G" "G" "T" "C" "G"
## [7525] "A" "C" "A" "G" "G" "T" "T" "G" "G" "A" "C" "T" "T" "C" "T" "T" "C" "T"
## [7543] "T" "A" "G" "T" "G" "G" "T" "C" "C" "T" "C" "A" "G" "T" "T" "T" "A" "T"
## [7561] "T" "G" "A" "A" "G" "A" "T" "A" "C" "A" "T" "T" "T" "C" "G" "T" "T" "C"
## [7579] "A" "T" "T" "T" "C" "A" "A" "A" "C" "T" "T" "T" "G" "G" "A" "T" "C" "A"
## [7597] "C" "T" "A" "C" "A" "A" "T" "T" "A" "T" "G" "G" "A" "T" "A" "A" "C" "C"
## [7615] "G" "T" "T" "T" "A" "G" "A" "T" "G" "G" "T" "T" "A" "C" "C" "A" "A" "G"
## [7633] "A" "T" "T" "T" "C" "G" "G" "C" "T" "T" "T" "T" "T" "G" "G" "G" "A" "C"
## [7651] "T" "C" "C" "C" "T" "C" "T" "A" "G" "T" "G" "C" "G" "T" "G" "A" "T" "T"
## [7669] "T" "A" "A" "T" "T" "A" "T" "C" "C" "G" "C" "A" "C" "A" "C" "G" "A" "A"
## [7687] "T" "C" "T" "T" "A" "T" "A" "T" "A" "A" "A" "A" "T" "T" "T" "T" "A" "T"
## [7705] "T" "G" "G" "T" "A" "G" "T" "T" "A" "T" "A" "A" "G" "A" "A" "T" "T" "T"
## [7723] "G" "T" "G" "T" "T" "T" "A" "A" "G" "G" "G" "A" "T" "T" "C" "T" "A" "A"
## [7741] "A" "A" "A" "C" "T" "T" "T" "A" "A" "T" "G" "G" "G" "A" "C" "A" "A" "A"
## [7759] "A" "G" "G" "A" "A" "G" "T" "T" "C" "C" "A" "G" "G" "T" "A" "T" "T" "C"
## [7777] "T" "T" "T" "T" "C" "C" "G" "A" "C" "T" "C" "T" "C" "T" "G" "T" "A" "T"
## [7795] "A" "A" "G" "T" "T" "T" "T" "C" "A" "C" "G" "T" "T" "A" "A" "T" "A" "A"
## [7813] "G" "C" "G" "T" "G" "A" "T" "C" "T" "T" "A" "T" "T" "T" "G" "A" "G" "N"
## [7831] "N" "N" "N" "N" "N" "G" "T" "G" "A" "A" "A" "G" "G" "T" "A" "G" "G" "T"
## [7849] "T" "G" "A" "A" "A" "A" "C" "A" "A" "C" "A" "A" "A" "A" "A" "C" "A" "C"
## [7867] "C" "A" "T" "T" "A" "T" "T" "T" "G" "T" "A" "G" "G" "T" "T" "T" "T" "T"
## [7885] "A" "C" "C" "T" "A" "G" "T" "A" "A" "T" "G" "T" "T" "T" "T" "A" "A" "C"
## [7903] "T" "T" "T" "A" "A" "G" "T" "G" "T" "C" "T" "G" "A" "A" "A" "T" "T" "A"
## [7921] "T" "T" "G" "T" "T" "G" "T" "A" "A" "T" "C" "A" "T" "C" "G" "C" "A" "A"
## [7939] "T" "A" "A" "T" "T" "G" "T" "T" "A" "T" "T" "C" "A" "T" "C" "C" "C" "T"
## [7957] "G" "A" "C" "C" "C" "A" "G" "A" "A" "G" "C" "T" "T" "A" "G" "A" "T" "T"
## [7975] "T" "C" "A" "T" "C" "A" "T" "G" "G" "T" "T" "T" "T" "T" "A" "G" "G" "T"
## [7993] "C" "G" "G" "A" "G" "A" "A" "T" "A" "A" "T" "A" "C" "A" "A" "T" "C" "T"
## [8011] "G" "A" "A" "G" "A" "G" "T" "Y" "A" "C" "C" "T" "T" "C" "G" "T" "T" "T"
## [8029] "T" "A" "T" "T" "T" "G" "T" "G" "G" "T" "A" "G" "T" "A" "A" "T" "T" "T"
## [8047] "A" "C" "C" "A" "T" "C" "C" "T" "G" "T" "C" "C" "C" "A" "A" "T" "A" "G"
## [8065] "T" "T" "T" "G" "G" "A" "G" "A" "A" "T" "C" "A" "T" "G" "G" "T" "A" "A"
## [8083] "C" "C" "A" "G" "G" "G" "T" "C" "T" "C" "T" "G" "T" "A" "C" "A" "T" "A"
## [8101] "T" "C" "G" "T" "A" "C" "C" "T" "T" "G" "G" "T" "T" "C" "A" "T" "T" "G"
## [8119] "T" "A" "A" "C" "C" "T" "T" "T" "T" "C" "T" "T" "T" "C" "C" "A" "T" "T"
## [8137] "C" "T" "T" "G" "T" "T" "C" "A" "G" "G" "A" "C" "T" "C" "A" "A" "C" "T"

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## [8155] "T" "A" "C" "A" "T" "T" "T" "T" "G" "A" "C" "T" "C" "C" "T" "A" "G" "A"
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## [8191] "T" "A" "T" "T" "T" "G" "T" "G" "G" "T" "G" "C" "A" "C" "A" "C" "T" "T"
## [8209] "T" "C" "T" "T" "A" "A" "T" "C" "A" "C" "A" "T" "A" "C" "G" "T" "C" "C"
## [8227] "C" "C" "C" "A" "T" "T" "A" "A" "C" "T" "C" "A" "A" "G" "A" "C" "C" "A"
## [8245] "A" "G" "A" "T" "T" "C" "T" "A" "A" "T" "T" "G" "T" "G" "T" "G" "A" "C"
## [8263] "T" "G" "A" "T" "C" "T" "C" "T" "G" "A" "T" "C" "A" "C" "C" "G" "T" "T"
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## [8299] "G" "T" "A" "A" "C" "A" "A" "G" "C" "A" "A" "A" "T" "C" "A" "A" "C" "A"
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## [8407] "A" "A" "A" "C" "T" "G" "G" "A" "A" "G" "A" "A" "A" "A" "A" "T" "T" "T" "C"
## [8425] "T" "G" "T" "A" "T" "T" "G" "T" "C" "G" "T" "C" "A" "T" "G" "G" "G" "G"
## [8443] "A" "A" "T" "T" "A" "A" "A" "T" "T" "C" "C" "C" "C" "T" "T" "T" "A" "A"
## [8461] "A" "T" "G" "A" "G" "T" "A" "C" "A" "G" "T" "T" "T" "A" "T" "T" "T" "C"
## [8479] "T" "T" "A" "T" "C" "C" "T" "T" "C" "T" "G" "T" "T" "G" "A" "C" "T" "T"
## [8497] "A" "A" "C" "C" "T" "A" "A" "A" "C" "A" "T" "A" "A" "G" "G" "A" "G" "G"
## [8515] "T" "T" "T" "T" "A" "T" "A" "C" "A" "T" "T" "A" "A" "A" "C" "G" "T" "A"
## [8533] "C" "G" "T" "A" "C" "T" "G" "T" "A" "T" "T" "G" "G" "T" "A" "G" "A" "T"
## [8551] "A" "A" "A" "C" "A" "A" "G" "C" "G" "C" "A" "C" "C" "A" "A" "A" "C" "G"
## [8569] "G" "T" "T" "C" "T" "A" "T" "T" "A" "A" "T" "G" "T" "A" "G" "G" "T" "T"
## [8587] "A" "A" "T" "T" "T" "T" "T" "A" "C" "G" "A" "A" "G" "T" "C" "T" "A" "C"
## [8605] "T" "A" "C" "T" "G" "C" "G" "T" "A" "A" "G" "T" "G" "T" "A" "A" "T" "C"
## [8623] "A" "T" "T" "G" "T" "T" "T" "C" "C" "G" "A" "C" "A" "G" "G" "T" "G" "G"
## [8641] "T" "A" "C" "G" "C" "T" "T" "C" "A" "C" "A" "G" "G" "G" "T" "A" "C" "T"
## [8659] "C" "G" "A" "A" "T" "A" "T" "T" "T" "C" "T" "A" "G" "T" "C" "G" "T" "A"
## [8677] "A" "G" "G" "T" "T" "C" "T" "T" "A" "C" "A" "A" "G" "A" "C" "A" "A" "T"
## [8695] "A" "G" "A" "A" "A" "T" "A" "T" "C" "G" "G" "T" "G" "C" "C" "T" "T" "G"
## [8713] "G" "A" "G" "G" "T" "T" "C" "T" "C" "G" "A" "T" "C" "G" "A" "A" "A" "A"
## [8731] "C" "A" "A" "C" "A" "T" "A" "T" "T" "T" "G" "G" "G" "T" "G" "T" "T" "T"
## [8749] "A" "C" "A" "T" "T" "C" "A" "C" "T" "T" "T" "T" "T" "T" "G" "G" "G" "A"
## [8767] "G" "A" "A" "A" "T" "C" "T" "C" "A" "G" "T" "A" "A" "A" "A" "G" "A" "A"
## [8785] "A" "A" "C" "A" "T" "T" "G" "T" "A" "A" "A" "A" "A" "T" "C" "A" "G" "A"
## [8803] "A" "T" "C" "C" "C" "A" "G" "C" "A" "T" "G" "T" "A" "T" "A" "G" "T" "G"
## [8821] "A" "T" "T" "A" "T" "T" "A" "C" "T" "C" "T" "A" "G" "G" "G" "T" "A" "A"
## [8839] "A" "T" "A" "A" "T" "C" "G" "A" "C" "A" "T" "A" "C" "A" "T" "G" "T" "C"
## [8857] "A" "A" "C" "G" "T" "G" "T" "T" "A" "G" "T" "G" "G" "T" "T" "A" "G" "T"
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## [8893] "T" "C" "T" "G" "T" "T" "T" "C" "A" "G" "T" "A" "A" "T" "T" "C" "T" "A"
## [8911] "G" "A" "C" "T" "T" "A" "G" "C" "T" "G" "T" "T" "C" "G" "T" "C" "G" "C"
## [8929] "A" "T" "G" "G" "G" "C" "A" "T" "C" "C" "G" "T" "T" "G" "G" "T" "G" "A"
## [8947] "C" "A" "G" "A" "A" "T" "T" "T" "T" "G" "T" "C" "G" "A" "C" "A" "T" "G"
## [8965] "G" "A" "C" "C" "A" "C" "G" "T" "T" "G" "A" "G" "G" "A" "A" "A" "T" "A"
## [8983] "G" "T" "C" "T" "T" "G" "G" "T" "C" "G" "T" "G" "G" "T" "T" "T" "T" "A"
## [9001] "C" "A" "T" "A" "T" "T" "G" "A" "G" "A" "G" "T" "A" "T" "A" "A" "T" "A"
## [9019] "T" "C" "C" "C" "A" "T" "G" "T" "C" "G" "A" "T" "T" "A" "C" "A" "A" "T"
## [9037] "T" "A" "C" "A" "C" "A" "A" "A" "T" "T" "T" "A" "T" "A" "A" "C" "T" "G"
## [9055] "T" "G" "T" "C" "A" "A" "C" "T" "C" "A" "T" "A" "T" "A" "A" "A" "A" "C"
## [9073] "G" "C" "T" "G" "T" "A" "A" "G" "T" "A" "G" "T" "A" "A" "T" "A" "C" "G"
## [9091] "G" "A" "A" "A" "T" "C" "C" "A" "T" "T" "A" "C" "A" "A" "C" "G" "T" "G"
## [9109] "A" "T" "A" "G" "T" "G" "G" "T" "A" "T" "T" "A" "A" "A" "A" "C" "T" "T"

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## [9127] "C" "C" "A" "G" "T" "G" "T" "G" "A" "A" "A" "A" "G" "A" "T" "T" "A" "T"
## [9145] "C" "G" "T" "A" "A" "G" "A" "A" "A" "C" "G" "T" "A" "A" "A" "A" "C" "A"
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## [9181] "G" "T" "G" "G" "G" "C" "C" "A" "A" "C" "G" "G" "T" "G" "C" "G" "A" "A"
## [9199] "C" "T" "G" "A" "T" "C" "T" "A" "A" "C" "A" "T" "T" "A" "A" "A" "A" "C"
## [9217] "C" "C" "A" "T" "T" "T" "T" "A" "C" "A" "A" "A" "G" "A" "T" "G" "T" "A"
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## [9253] "C" "G" "T" "A" "T" "T" "T" "A" "C" "T" "T" "T" "A" "A" "A" "G" "A" "C"
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## [9325] "A" "A" "T" "A" "A" "T" "A" "A" "A" "G" "T" "T" "G" "T" "T" "T" "T" "A"
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## [9415] "A" "A" "A" "A" "T" "T" "G" "A" "C" "A" "T" "G" "A" "C" "A" "G" "G" "T"
## [9433] "A" "T" "C" "C" "T" "T" "A" "T" "T" "T" "T" "A" "G" "A" "A" "G" "A" "T"
## [9451] "T" "A" "A" "G" "T" "T" "T" "T" "C" "C" "A" "C" "T" "A" "A" "G" "G" "A"
## [9469] "A" "T" "T" "T" "T" "G" "C" "A" "A" "A" "T" "C" "G" "A" "T" "C" "A" "G"
## [9487] "G" "T" "T" "A" "G" "T" "C" "A" "T" "C" "T" "A" "C" "A" "T" "T" "T" "G"
## [9505] "G" "T" "G" "G" "A" "T" "T" "G" "A" "C" "T" "G" "A" "T" "A" "C" "T" "G"
## [9523] "A" "T" "T" "T" "T" "A" "G" "A" "G" "G" "T" "A" "T" "T" "T" "G" "C" "T"
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## [11953] "A" "A" "T" "G" "T" "A" "A" "T" "G" "T" "T" "C" "T" "C" "A" "C" "T" "C"
## [11971] "G" "A" "C" "A" "A" "A" "G" "T" "C" "A" "C" "C" "A" "A" "A" "C" "T" "C"
## [11989] "A" "C" "T" "T" "A" "T" "A" "C" "T" "G" "T" "A" "T" "C" "A" "G" "T" "A"
## [12007] "T" "A" "A" "G" "A" "C" "T" "C" "G" "G" "G" "A" "C" "A" "C" "T" "A" "C"
## [12025] "T" "T" "A" "G" "T" "T" "G" "T" "C" "A" "A" "A" "C" "T" "C" "A" "A" "C"

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## [12043] "C" "A" "T" "C" "A" "G" "G" "G" "T" "T" "T" "T" "A" "G" "A" "A" "A" "C"
## [12061] "T" "C" "C" "G" "A" "T" "G" "T" "C" "G" "T" "A" "A" "G" "A" "C" "A" "C"
## [12079] "T" "T" "A" "A" "T" "A" "T" "T" "C" "C" "A" "C" "T" "T" "T" "A" "T" "T"
## [12097] "T" "C" "T" "G" "T" "C" "G" "A" "A" "A" "A" "G" "A" "G" "G" "T" "T" "C"
## [12115] "G" "T" "C" "C" "C" "A" "A" "T" "G" "C" "A" "C" "A" "T" "T" "C" "C" "T"
## [12133] "T" "A" "A" "G" "A" "G" "A" "A" "T" "G" "G" "T" "G" "C" "G" "G" "A" "T"
## [12151] "A" "A" "A" "C" "A" "C" "C" "G" "G" "A" "C" "A" "A" "T" "T" "A" "A" "C"
## [12169] "G" "T" "C" "T" "A" "C" "T" "T" "T" "G" "T" "A" "G" "T" "A" "C" "G" "C"
## [12187] "A" "C" "T" "A" "T" "T" "G" "T" "G" "G" "G" "A" "A" "T" "A" "T" "T" "T"
## [12205] "T" "G" "T" "A" "A" "A" "A" "T" "T" "T" "C" "G" "T" "A" "A" "C" "T" "C"
## [12223] "G" "A" "C" "T" "A" "A" "A" "C" "A" "G" "A" "A" "A" "T" "A" "C" "A" "C"
## [12241] "G" "A" "A" "A" "T" "T" "C" "G" "A" "A" "T" "A" "A" "T" "A" "G" "T" "A"
## [12259] "T" "T" "T" "G" "G" "T" "T" "T" "C" "G" "T" "G" "A" "G" "T" "G" "T" "C"
## [12277] "A" "C" "A" "G" "T" "T" "G" "T" "T" "A" "A" "A" "G" "T" "C" "G" "T" "C"
## [12295] "C" "T" "G" "T" "T" "G" "C" "G" "G" "C" "T" "G" "T" "T" "C" "A" "A" "G"
## [12313] "G" "C" "T" "C" "C" "T" "T" "G" "T" "A" "C" "A" "G" "A" "C" "C" "T" "G"
## [12331] "G" "A" "T" "A" "T" "C" "A" "A" "A" "A" "G" "T" "A" "T" "T" "C" "A" "G"
## [12349] "A" "T" "G" "T" "G" "T" "G" "A" "C" "T" "T" "A" "A" "C" "T" "T" "T" "A"
## [12367] "T" "A" "A" "G" "A" "C" "C" "A" "A" "G" "A" "T" "C" "A" "C" "A" "C" "G"
## [12385] "G" "G" "A" "A" "T" "C" "A" "A" "T" "C" "G" "T" "T" "A" "C" "A" "C" "G"
## [12403] "C" "A" "C" "C" "A" "C" "G" "T" "C" "C" "A" "T" "T" "A" "A" "C" "T" "C"
## [12421] "G" "T" "C" "C" "C" "A" "G" "C" "G" "G" "T" "T" "A" "C" "A" "T" "G" "T"
## [12439] "G" "T" "A" "T" "C" "A" "C" "G" "A" "A" "T" "C" "G" "T" "G" "C" "A" "T"
## [12457] "T" "A" "G" "A" "C" "C" "G" "T" "A" "A" "C" "T" "G" "T" "T" "G" "T" "G"
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## [12493] "G" "G" "T" "A" "A" "C" "T" "T" "T" "A" "A" "A" "G" "T" "A" "G" "T" "T"
## [12511] "T" "C" "T" "G" "T" "T" "G" "A" "T" "A" "T" "A" "G" "A" "C" "G" "A" "C"
## [12529] "A" "G" "C" "A" "G" "A" "G" "T" "C" "C" "G" "T" "T" "A" "C" "G" "T" "A"
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## [12565] "T" "G" "A" "C" "A" "A" "G" "A" "T" "T" "A" "C" "A" "A" "C" "T" "T" "A"
## [12583] "A" "G" "T" "G" "A" "A" "A" "C" "T" "T" "A" "A" "A" "T" "A" "G" "T" "T"
## [12601] "T" "T" "G" "T" "G" "A" "G" "A" "T" "G" "T" "G" "C" "T" "C" "G" "T" "G"
## [12619] "C" "A" "C" "G" "T" "C" "C" "A" "T" "A" "T" "T" "A" "A" "G" "A" "T" "G"
## [12637] "A" "T" "G" "T" "A" "A" "A" "T" "A" "G" "A" "T" "A" "T" "C" "C" "G" "T"
## [12655] "T" "T" "A" "T" "A" "A" "A" "A" "T" "T" "A" "C" "G" "G" "A" "A" "G" "A"
## [12673] "G" "T" "G" "T" "A" "T" "C" "A" "C" "G" "T" "A" "G" "T" "T" "G" "T" "C"
## [12691] "G" "C" "C" "G" "T" "A" "C" "T" "C" "T" "C" "G" "T" "T" "C" "G" "A" "C"
## [12709] "A" "T" "A" "T" "G" "T" "G" "A" "T" "A" "C" "G" "C" "T" "C" "G" "T" "C"
## [12727] "T" "T" "C" "C" "C" "A" "T" "C" "A" "T" "C" "T" "C" "T" "C" "G" "A" "T"
## [12745] "C" "C" "G" "G" "T" "T" "A" "T" "C" "G" "T" "T" "T" "T" "A" "C" "T" "G"
## [12763] "A" "G" "A" "A" "T" "G" "G" "T" "C" "A" "T" "G" "G" "T" "C" "C" "A" "C"
## [12781] "C" "A" "G" "G" "G" "A" "C" "C" "T" "C" "A" "C" "A" "T" "C" "T" "T" "A"
## [12799] "T" "G" "A" "A" "A" "A" "C" "G" "T" "A" "T" "G" "G" "T" "T" "G" "G" "A"
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## [12835] "A" "C" "G" "A" "T" "C" "T" "T" "T" "T" "G" "A" "G" "T" "A" "G" "A" "C"
## [12853] "T" "C" "T" "A" "T" "A" "A" "C" "T" "C" "A" "C" "A" "A" "C" "C" "C" "A"
## [12871] "T" "A" "T" "T" "C" "G" "G" "T" "C" "A" "T" "T" "A" "A" "G" "A" "T" "T"
## [12889] "G" "T" "A" "T" "C" "A" "C" "G" "A" "G" "A" "A" "C" "A" "C" "C" "G" "T"
## [12907] "G" "A" "T" "C" "A" "C" "A" "T" "C" "C" "A" "C" "G" "T" "G" "A" "A" "T"
## [12925] "T" "A" "C" "C" "G" "T" "A" "A" "T" "G" "A" "C" "A" "T" "A" "C" "A" "C"
## [12943] "T" "A" "C" "A" "G" "T" "C" "G" "T" "G" "T" "T" "T" "T" "A" "T" "T" "A"
## [12961] "G" "T" "G" "G" "T" "T" "G" "T" "A" "A" "A" "T" "T" "A" "A" "A" "C" "A"
## [12979] "T" "T" "C" "A" "A" "C" "A" "A" "C" "A" "T" "G" "G" "A" "G" "C" "C" "A"
## [12997] "T" "T" "T" "G" "T" "T" "G" "T" "C" "G" "T" "A" "G" "T" "G" "G" "T" "A"

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## [13015] "T" "C" "A" "G" "T" "G" "G" "A" "A" "A" "A" "A" "G" "T" "T" "T" "C" "C"
## [13033] "A" "C" "A" "T" "G" "A" "G" "A" "G" "G" "A" "T" "A" "A" "A" "C" "A" "T"
## [13051] "G" "A" "A" "A" "T" "G" "A" "C" "A" "A" "A" "A" "A" "T" "C" "A" "A" "T"
## [13069] "G" "T" "G" "C" "T" "A" "T" "T" "G" "G" "T" "C" "A" "T" "T" "T" "C" "T"
## [13087] "G" "T" "A" "T" "T" "A" "A" "A" "G" "C" "C" "A" "A" "T" "T" "C" "A" "C"
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## [13141] "T" "A" "A" "G" "A" "G" "A" "C" "A" "G" "T" "C" "T" "G" "T" "C" "G" "T"
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## [13177] "A" "T" "G" "G" "T" "A" "T" "T" "C" "T" "G" "T" "C" "A" "A" "A" "T" "T"
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## [13213] "A" "C" "T" "C" "G" "C" "A" "A" "A" "G" "A" "C" "G" "A" "C" "G" "T" "T"
## [13231] "T" "T" "T" "C" "G" "A" "A" "C" "T" "C" "A" "G" "A" "A" "A" "G" "T" "C"
## [13249] "A" "T" "G" "T" "C" "C" "A" "C" "A" "A" "T" "C" "G" "A" "T" "T" "T" "T"
## [13267] "A" "C" "A" "T" "T" "A" "G" "T" "G" "G" "T" "C" "G" "T" "A" "A" "A" "C"
## [13285] "A" "G" "G" "T" "C" "A" "G" "T" "G" "T" "A" "C" "A" "A" "C" "G" "T" "T"
## [13303] "A" "A" "C" "G" "T" "A" "A" "T" "T" "T" "C" "A" "G" "T" "C" "A" "T" "T"
## [13321] "G" "T" "A" "A" "T" "A" "G" "C" "G" "A" "T" "G" "G" "T" "T" "G" "T" "G"
## [13339] "T" "A" "C" "A" "T" "A" "A" "A" "A" "A" "T" "A" "T" "A" "T" "T" "T" "G"
## [13357] "G" "T" "T" "T" "T" "T" "G" "A" "A" "C" "A" "G" "G" "T" "A" "A" "T" "C"
## [13375] "G" "T" "G" "T" "G" "T" "T" "A" "C" "C" "T" "T" "T" "T" "G" "A" "T" "T"
## [13393] "A" "C" "C" "C" "A" "T" "C" "A" "A" "A" "T" "A" "C" "A" "C" "T" "A" "A"
## [13411] "A" "T" "G" "T" "T" "A" "T" "T" "A" "T" "C" "G" "A" "G" "T" "A" "T" "G"
## [13429] "G" "A" "G" "G" "A" "T" "T" "C" "A" "T" "T" "T" "C" "A" "A" "C" "T" "C"
## [13447] "A" "G" "T" "G" "T" "A" "G" "A" "C" "A" "C" "T" "G" "T" "A" "G" "T" "G"
## [13465] "T" "T" "G" "G" "A" "C" "C" "T" "C" "G" "T" "A" "A" "C" "G" "T" "T" "T"
## [13483] "G" "T" "A" "T" "G" "C" "C" "T" "A" "A" "T" "T" "G" "T" "C" "T" "G" "T"
## [13501] "T" "C" "T" "G" "A" "T" "T" "A" "A" "A" "T" "A" "C" "A" "C" "T" "A" "C"
## [13519] "A" "A" "C" "T" "A" "T" "A" "C" "T" "G" "T" "A" "C" "C" "A" "G" "C" "A"
## [13537] "T" "T" "G" "T" "C" "G" "T" "A" "A" "A" "T" "G" "T" "T" "G" "T" "A" "T"
## [13555] "T" "C" "T" "T" "A" "C" "C" "A" "G" "A" "T" "G" "C" "A" "T" "A" "C" "G"
## [13573] "T" "T" "C" "G" "T" "G" "G" "T" "G" "T" "A" "G" "A" "A" "T" "T" "A" "C"
## [13591] "T" "T" "C" "A" "G" "A" "C" "A" "C" "T" "T" "A" "A" "C" "G" "T" "T" "T"
## [13609] "C" "T" "T" "G" "T" "G" "T" "T" "C" "G" "G" "G" "G" "T" "T" "G" "T" "C"
## [13627] "G" "G" "A" "C" "A" "T" "T" "C" "T" "G" "A" "C" "A" "T" "A" "C" "G" "C"
## [13645] "C" "A" "C" "A" "C" "A" "T" "G" "T" "A" "T" "C" "G" "G" "A" "G" "T" "A"
## [13663] "T" "T" "T" "T" "G" "A" "G" "T" "C" "C" "A" "A" "G" "G" "G" "T" "T" "A"
## [13681] "T" "G" "G" "A" "A" "C" "T" "T" "C" "A" "C" "A" "A" "T" "A" "G" "T" "A"
## [13699] "A" "T" "C" "A" "T" "T" "C" "G" "T" "A" "T" "T" "G" "T" "C" "T" "T" "A"
## [13717] "T" "G" "T" "A" "C" "A" "G" "A" "T" "T" "G" "T" "A" "C" "A" "C" "A" "G"
## [13735] "G" "A" "C" "A" "A" "T" "T" "G" "A" "G" "T" "A" "G" "T" "A" "C" "A" "T"
## [13753] "C" "G" "A" "A" "A" "G" "A" "A" "T" "A" "C" "A" "T" "A" "A" "C" "A" "T"
## [13771] "T" "C" "A" "T" "G" "T" "T" "T" "A" "C" "T" "T" "T" "C" "T" "G" "T" "A"
## [13789] "G" "T" "C" "G" "T" "A" "T" "G" "A" "G" "G" "A" "C" "T" "A" "A" "T" "C"
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## [13825] "T" "T" "C" "G" "T" "A" "G" "A" "T" "A" "T" "C" "G" "A" "T" "T" "T" "C"
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## [13879] "A" "A" "T" "G" "C" "T" "A" "T" "A" "G" "T" "A" "G" "A" "T" "G" "T" "T"
## [13897] "T" "T" "G" "T" "C" "G" "G" "C" "C" "G" "G" "G" "G" "A" "T" "C" "C" "T"
## [13915] "A" "A" "G" "A" "A" "C" "T" "A" "C" "C" "T" "A" "G" "A" "C" "C" "C" "A"
## [13933] "T" "T" "C" "C" "T" "T" "C" "C" "A" "T" "G" "T" "G" "T" "A" "T" "T" "A"
## [13951] "G" "T" "A" "G" "T" "G" "G" "G" "A" "C" "A" "A" "A" "T" "T" "G" "A" "T"
## [13969] "C" "G" "T" "A" "A" "C" "A" "T" "A" "C" "A" "A" "C" "T" "C" "T" "C" "G"

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## [13987] "T" "T" "T" "T" "A" "A" "G" "T" "A" "C" "T" "C" "C" "A" "G" "G" "A" "A"
## [14005] "A" "T" "C" "A" "T" "T" "C" "C" "A" "G" "T" "C" "A" "G" "A" "G" "T" "C"
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## [14041] "T" "G" "T" "A" "T" "T" "T" "T" "T" "G" "T" "A" "A" "C" "A" "A" "A" "A"
## [14059] "C" "T" "A" "T" "T" "A" "T" "T" "T" "C" "T" "T" "G" "A" "C" "T" "G" "A"
## [14077] "A" "T" "T" "T" "C" "A" "A" "G" "A" "A" "A" "T" "A" "C" "G" "A" "T" "C"
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## [14257] "T" "T" "A" "A" "C" "G" "C" "C" "T" "G" "T" "A" "T" "G" "A" "A" "T" "A"
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## [14401] "G" "T" "A" "T" "A" "T" "C" "A" "C" "T" "T" "G" "A" "C" "G" "G" "T" "G"
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## [14473] "C" "C" "A" "C" "A" "C" "T" "G" "T" "T" "C" "G" "A" "T" "G" "T" "T" "G"
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## [14707] "C" "T" "A" "C" "T" "T" "T" "G" "A" "C" "A" "G" "A" "T" "A" "A" "C" "C"
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## [14887] "A" "T" "C" "G" "G" "A" "A" "T" "G" "G" "G" "G" "T" "A" "A" "A" "T" "A"
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## [16651] "G" "T" "A" "T" "A" "A" "C" "C" "G" "A" "A" "G" "G" "C" "C" "A" "C" "A"
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## [16687] "T" "C" "A" "T" "G" "G" "T" "C" "A" "C" "A" "C" "A" "C" "A" "T" "G" "T"
## [16705] "G" "T" "T" "G" "T" "A" "G" "A" "A" "T" "T" "G" "T" "G" "T" "T" "A" "A"
## [16723] "T" "C" "A" "C" "T" "A" "A" "C" "C" "A" "A" "C" "A" "G" "G" "G" "G" "G"
## [16741] "T" "G" "A" "T" "C" "G" "A" "T" "C" "T" "A" "T" "T" "A" "G" "A" "A" "A"
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## [16777] "A" "T" "G" "T" "C" "G" "T" "T" "T" "T" "C" "G" "T" "G" "T" "C" "T" "T"
## [16795] "T" "C" "T" "A" "T" "T" "A" "T" "G" "T" "C" "A" "A" "C" "T" "T" "A" "A"
## [16813] "C" "C" "G" "T" "C" "C" "G" "T" "G" "A" "A" "G" "A" "C" "A" "A" "C" "G"
## [16831] "T" "A" "A" "T" "G" "G" "T" "C" "G" "A" "A" "C" "A" "T" "C" "T" "G" "C"
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## [16939] "T" "C" "C" "A" "C" "A" "C" "A" "G" "A" "C" "A" "T" "T" "G" "T" "T" "T"
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## [17641] "G" "T" "G" "T" "A" "A" "G" "T" "T" "T" "C" "T" "G" "A" "A" "G" "A" "A"
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## [17785] "G" "G" "A" "C" "A" "A" "C" "A" "G" "G" "T" "C" "G" "T" "A" "A" "A" "G"
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## [17875] "T" "T" "T" "C" "C" "G" "A" "A" "G" "T" "C" "A" "T" "C" "A" "T" "A" "G"
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## [18055] "T" "G" "G" "T" "T" "G" "T" "G" "G" "G" "T" "T" "G" "T" "T" "A" "A" "A"
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## [18109] "A" "C" "C" "C" "T" "C" "A" "T" "C" "A" "G" "G" "G" "A" "C" "A" "C" "T"
## [18127] "T" "A" "A" "G" "T" "A" "T" "A" "T" "A" "G" "A" "T" "T" "T" "G" "A" "G"
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## [18325] "T" "T" "A" "T" "G" "G" "A" "G" "A" "C" "C" "G" "G" "T" "T" "T" "T" "T"
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## [18433] "T" "A" "T" "T" "T" "G" "A" "A" "A" "T" "A" "T" "T" "T" "G" "C" "T" "C"
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## [18613] "T" "G" "C" "G" "T" "A" "G" "T" "G" "G" "G" "T" "T" "G" "A" "T" "C" "G"
## [18631] "T" "C" "C" "G" "T" "A" "T" "A" "T" "C" "T" "G" "G" "T" "A" "T" "A" "A"
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## [19009] "A" "C" "T" "T" "C" "G" "T" "G" "T" "G" "T" "A" "T" "A" "G" "A" "T" "T"
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## [19045] "T" "C" "G" "T" "C" "T" "T" "T" "C" "T" "C" "C" "A" "G" "G" "A" "T" "C"
## [19063] "A" "T" "A" "C" "A" "G" "T" "T" "G" "T" "A" "C" "C" "A" "G" "A" "A" "C"
## [19081] "A" "C" "A" "A" "T" "C" "T" "C" "C" "A" "A" "G" "T" "A" "T" "T" "A" "A"
## [19099] "C" "A" "T" "G" "A" "A" "G" "T" "A" "T" "C" "G" "G" "T" "G" "T" "T" "C"
## [19117] "C" "A" "A" "T" "T" "T" "C" "A" "G" "T" "A" "A" "T" "T" "C" "T" "C" "A"
## [19135] "A" "C" "A" "C" "C" "A" "T" "T" "T" "A" "G" "C" "T" "A" "A" "C" "T" "C"
## [19153] "T" "T" "T" "G" "G" "T" "G" "G" "A" "C" "A" "G" "A" "G" "G" "T" "A" "A"
## [19171] "A" "T" "A" "T" "T" "G" "T" "C" "G" "T" "C" "G" "C" "A" "T" "G" "T" "T"
## [19189] "G" "G" "T" "T" "C" "G" "A" "T" "T" "T" "T" "G" "T" "A" "A" "T" "T" "G"
## [19207] "A" "C" "A" "T" "T" "A" "T" "C" "A" "A" "C" "A" "C" "A" "G" "G" "C" "A"
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## [19243] "A" "A" "C" "G" "G" "A" "C" "A" "G" "T" "T" "G" "T" "T" "T" "T" "C" "C"
## [19261] "A" "G" "G" "T" "A" "T" "T" "T" "T" "C" "A" "A" "T" "G" "G" "A" "A" "G"
## [19279] "A" "T" "T" "C" "A" "G" "A" "C" "A" "C" "G" "G" "T" "C" "G" "T" "A" "C"
## [19297] "T" "T" "G" "A" "G" "G" "T" "C" "A" "A" "C" "C" "A" "T" "T" "A" "A" "G"
## [19315] "G" "T" "A" "T" "A" "C" "C" "A" "C" "G" "T" "A" "C" "A" "T" "T" "G" "T"
## [19333] "T" "T" "T" "T" "C" "T" "C" "T" "G" "T" "G" "T" "C" "A" "G" "T" "A" "T"
## [19351] "T" "A" "G" "A" "T" "A" "C" "A" "A" "T" "T" "T" "T" "G" "G" "T" "T" "G"
## [19369] "T" "G" "A" "T" "G" "G" "T" "G" "T" "A" "C" "T" "T" "G" "G" "T" "A" "A"
## [19387] "T" "T" "C" "C" "T" "T" "A" "C" "T" "T" "G" "G" "G" "A" "A" "T" "T" "A"
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## [19459] "T" "G" "T" "T" "C" "G" "A" "T" "T" "G" "T" "G" "A" "C" "T" "T" "T" "T"
## [19477] "T" "C" "A" "G" "A" "C" "A" "G" "G" "A" "C" "C" "A" "A" "C" "T" "T" "A"
## [19495] "C" "G" "C" "T" "T" "G" "T" "T" "T" "G" "A" "A" "T" "A" "T" "G" "A" "A"
## [19513] "T" "C" "C" "A" "C" "A" "G" "A" "A" "T" "C" "C" "T" "A" "A" "C" "C" "G"
## [19531] "A" "C" "A" "T" "A" "G" "T" "T" "G" "G" "A" "A" "T" "T" "C" "G" "A" "A"
## [19549] "T" "T" "C" "A" "T" "G" "T" "G" "T" "T" "A" "A" "A" "A" "C" "G" "T" "A"
## [19567] "T" "C" "T" "T" "A" "C" "A" "G" "G" "T" "T" "A" "T" "T" "G" "G" "G" "A"
## [19585] "C" "T" "C" "A" "A" "C" "T" "T" "G" "T" "A" "A" "T" "G" "G" "T" "C" "G"
## [19603] "G" "A" "C" "A" "T" "G" "G" "T" "T" "C" "T" "T" "T" "A" "A" "T" "A" "C"
## [19621] "T" "A" "A" "T" "C" "T" "G" "A" "A" "T" "G" "C" "T" "T" "A" "C" "T" "C"
## [19639] "A" "T" "T" "T" "A" "G" "A" "A" "G" "T" "A" "T" "T" "A" "A" "T" "C" "C"
## [19657] "C" "A" "A" "T" "T" "C" "G" "T" "A" "C" "A" "G" "A" "A" "G" "T" "C" "T"
## [19675] "C" "C" "A" "C" "G" "T" "C" "T" "A" "G" "T" "G" "T" "A" "C" "A" "G" "A"
## [19693] "A" "C" "C" "T" "G" "T" "C" "A" "T" "T" "T" "G" "A" "T" "G" "C" "A" "G"
## [19711] "T" "A" "G" "T" "T" "C" "G" "G" "T" "T" "T" "C" "T" "G" "G" "C" "A" "A"
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## [19747] "T" "C" "A" "A" "T" "G" "A" "A" "C" "A" "T" "G" "G" "T" "A" "T" "G" "T"
## [19765] "T" "G" "G" "G" "A" "G" "T" "T" "G" "A" "A" "A" "T" "G" "G" "T" "C" "T"
## [19783] "A" "C" "C" "C" "T" "T" "A" "C" "G" "G" "T" "A" "A" "A" "A" "A" "G" "A"
## [19801] "T" "T" "T" "T" "G" "G" "T" "G" "A" "G" "A" "C" "G" "T" "T" "T" "T" "G"

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## [19819] "T" "C" "G" "A" "C" "T" "C" "C" "A" "C" "T" "A" "T" "C" "T" "C" "T" "A"
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## [19855] "T" "T" "G" "T" "A" "G" "T" "C" "T" "T" "G" "G" "A" "C" "T" "C" "A" "A"
## [19873] "T" "G" "A" "C" "T" "T" "C" "A" "G" "T" "A" "A" "C" "T" "C" "T" "C" "G"
## [19891] "G" "A" "A" "A" "C" "G" "C" "T" "C" "T" "A" "C" "T" "G" "T" "T" "G" "T"
## [19909] "T" "C" "G" "T" "C" "G" "A" "A" "G" "A" "G" "A" "C" "A" "T" "C" "G" "A"
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## [19999] "T" "C" "C" "A" "T" "T" "A" "T" "C" "G" "T" "G" "T" "A" "G" "T" "G" "A"
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## [20071] "A" "A" "G" "T" "T" "T" "T" "C" "A" "T" "G" "A" "T" "T" "T" "C" "C" "T"
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## [20107] "T" "G" "C" "A" "G" "A" "G" "A" "A" "A" "T" "C" "C" "A" "T" "T" "A" "A"
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## [20179] "A" "T" "A" "G" "G" "T" "C" "T" "T" "T" "C" "C" "A" "T" "G" "A" "T" "T"
## [20197] "T" "C" "C" "A" "C" "A" "C" "T" "T" "G" "T" "A" "T" "T" "G" "G" "T" "A"
## [20215] "G" "G" "T" "G" "A" "C" "T" "T" "A" "T" "A" "C" "A" "C" "G" "A" "T" "T"
## [20233] "T" "T" "T" "T" "C" "T" "T" "T" "G" "T" "A" "G" "T" "A" "A" "T" "C" "A"
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## [20269] "G" "T" "T" "C" "A" "T" "T" "T" "A" "T" "T" "G" "T" "C" "T" "T" "A" "T"
## [20287] "T" "T" "G" "T" "G" "G" "T" "C" "C" "A" "T" "T" "C" "T" "T" "A" "C" "T"
## [20305] "C" "A" "T" "T" "T" "G" "A" "C" "C" "A" "C" "A" "A" "T" "T" "T" "G" "T"
## [20323] "C" "T" "C" "A" "T" "G" "T" "C" "A" "C" "T" "T" "A" "C" "T" "G" "T" "A"
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## [20359] "T" "T" "T" "C" "C" "G" "T" "T" "G" "A" "T" "G" "T" "A" "C" "T" "G" "A"
## [20377] "C" "A" "T" "A" "A" "G" "T" "G" "G" "T" "T" "T" "T" "C" "G" "A" "G" "A"
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## [20413] "C" "A" "T" "C" "C" "G" "T" "T" "C" "C" "G" "T" "A" "C" "A" "A" "T" "G"
## [20431] "A" "T" "G" "C" "T" "A" "T" "C" "G" "A" "T" "G" "T" "T" "A" "T" "G" "G"
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## [20467] "A" "C" "T" "A" "T" "A" "C" "A" "G" "G" "T" "T" "T" "C" "G" "T" "G" "G"
## [20485] "T" "T" "A" "T" "C" "C" "A" "A" "C" "T" "T" "A" "A" "T" "C" "A" "C" "C"
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## [20521] "A" "T" "T" "T" "A" "A" "A" "T" "G" "T" "C" "G" "T" "A" "G" "A" "T" "G"
## [20539] "T" "G" "G" "T" "G" "T" "C" "T" "T" "T" "T" "G" "A" "G" "G" "A" "C" "C"
## [20557] "A" "T" "T" "T" "C" "T" "A" "G" "A" "C" "A" "T" "T" "A" "T" "T" "A" "G"
## [20575] "T" "A" "A" "C" "A" "A" "T" "T" "C" "A" "T" "G" "G" "G" "T" "A" "G" "A"
## [20593] "T" "G" "G" "T" "G" "A" "T" "C" "A" "T" "C" "T" "A" "T" "G" "T" "G" "T"
## [20611] "T" "T" "G" "T" "G" "G" "T" "C" "G" "A" "A" "G" "A" "C" "T" "A" "G" "A"
## [20629] "A" "A" "G" "T" "G" "T" "T" "C" "A" "C" "G" "G" "C" "A" "C" "G" "G" "A"
## [20647] "T" "G" "T" "C" "A" "T" "G" "A" "G" "T" "C" "T" "T" "A" "G" "T" "T" "T"
## [20665] "T" "C" "A" "A" "C" "A" "A" "T" "G" "G" "T" "G" "A" "G" "A" "T" "T" "G"
## [20683] "T" "C" "T" "T" "G" "G" "A" "A" "G" "T" "T" "C" "C" "A" "T" "C" "C" "A"
## [20701] "C" "A" "A" "T" "C" "C" "T" "T" "T" "A" "A" "C" "T" "T" "A" "T" "T" "A"
## [20719] "T" "C" "T" "C" "G" "G" "T" "A" "G" "G" "T" "A" "C" "T" "C" "G" "T" "G"
## [20737] "T" "A" "T" "T" "G" "C" "A" "C" "A" "C" "A" "G" "T" "C" "C" "C" "G" "C"
## [20755] "A" "T" "T" "T" "G" "A" "A" "A" "G" "T" "A" "T" "T" "C" "G" "T" "T" "G"
## [20773] "T" "C" "T" "T" "G" "G" "A" "A" "G" "A" "T" "C" "A" "T" "G" "T" "A" "A"

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## [20791] "C" "C" "A" "T" "A" "G" "T" "A" "T" "T" "G" "T" "T" "A" "T" "A" "C" "C"
## [20809] "A" "T" "T" "A" "C" "C" "G" "A" "A" "T" "G" "G" "T" "C" "T" "T" "C" "G"
## [20827] "T" "A" "G" "A" "A" "A" "T" "T" "T" "T" "T" "A" "A" "C" "A" "T" "G" "T"
## [20845] "A" "A" "G" "T" "C" "G" "T" "C" "G" "G" "T" "T" "T" "T" "G" "T" "G" "T"
## [20863] "T" "C" "G" "A" "C" "T" "A" "C" "A" "A" "C" "G" "T" "T" "T" "T" "A" "G"
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## [20899] "A" "C" "T" "A" "C" "C" "A" "C" "A" "C" "A" "T" "T" "G" "T" "C" "T" "A"
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## [20935] "T" "T" "G" "A" "G" "A" "T" "C" "C" "A" "T" "T" "C" "T" "T" "T" "A" "C"
## [20953] "G" "T" "T" "T" "T" "T" "C" "A" "G" "T" "G" "G" "T" "A" "A" "T" "C" "A"
## [20971] "A" "C" "A" "C" "G" "C" "A" "T" "T" "A" "T" "A" "G" "C" "A" "C" "G" "G"
## [20989] "T" "C" "C" "G" "T" "T" "T" "G" "G" "T" "C" "C" "G" "T" "G" "C" "T" "G"
## [21007] "T" "T" "T" "T" "G" "G" "G" "T" "G" "A" "A" "G" "A" "G" "A" "A" "C" "A"
## [21025] "A" "T" "A" "C" "T" "G" "A" "C" "G" "T" "C" "G" "T" "T" "A" "G" "T" "T"
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## [21061] "T" "C" "A" "T" "A" "T" "T" "G" "A" "T" "G" "G" "T" "G" "G" "T" "G" "C"
## [21079] "G" "A" "C" "C" "G" "A" "T" "T" "T" "G" "G" "T" "A" "C" "A" "C" "A" "G"
## [21097] "T" "T" "T" "T" "A" "G" "T" "C" "G" "T" "A" "C" "A" "A" "A" "C" "A" "A"
## [21115] "T" "C" "G" "T" "T" "T" "T" "G" "T" "T" "C" "A" "T" "A" "G" "A" "C" "A"
## [21133] "T" "C" "T" "A" "C" "G" "A" "T" "A" "C" "A" "G" "T" "G" "C" "T" "C" "A"
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## [21367] "T" "G" "T" "A" "C" "A" "G" "T" "T" "G" "A" "A" "T" "T" "T" "T" "C" "C"
## [21385] "A" "T" "T" "C" "A" "A" "T" "A" "A" "G" "A" "A" "A" "A" "A" "T" "C" "G"
## [21403] "T" "C" "G" "T" "G" "A" "T" "G" "C" "A" "T" "A" "A" "A" "C" "A" "A" "A"
## [21421] "A" "G" "C" "A" "T" "C" "A" "A" "C" "A" "A" "G" "T" "C" "T" "G" "T" "T"
## [21439] "A" "C" "T" "G" "T" "A" "C" "T" "T" "T" "A" "G" "A" "A" "A" "T" "T" "G"
## [21457] "C" "A" "A" "G" "G" "T" "A" "T" "A" "G" "T" "T" "T" "C" "G" "T" "T" "A"
## [21475] "C" "A" "A" "C" "A" "C" "T" "G" "A" "A" "A" "A" "A" "C" "G" "A" "T" "G"
## [21493] "G" "A" "C" "G" "C" "G" "T" "A" "A" "T" "T" "A" "T" "A" "C" "T" "G" "C"
## [21511] "G" "C" "G" "T" "G" "A" "T" "G" "T" "C" "A" "G" "T" "T" "A" "T" "G" "T"
## [21529] "T" "C" "G" "T" "G" "G" "T" "T" "C" "C" "A" "G" "T" "G" "C" "C" "C" "C"
## [21547] "A" "C" "A" "G" "T" "A" "C" "A" "A" "A" "A" "G" "T" "T" "G" "A" "A" "A"
## [21565] "C" "A" "A" "T" "A" "T" "C" "C" "A" "C" "T" "C" "G" "T" "A" "T" "A" "T"
## [21583] "C" "A" "A" "T" "A" "A" "T" "G" "T" "T" "G" "A" "T" "A" "G" "C" "G" "G"
## [21601] "T" "C" "A" "T" "T" "G" "A" "A" "G" "A" "T" "A" "C" "A" "G" "T" "C" "T"
## [21619] "A" "A" "C" "T" "A" "C" "A" "C" "T" "G" "T" "T" "A" "A" "A" "T" "T" "C"
## [21637] "T" "G" "T" "A" "A" "G" "T" "T" "G" "T" "T" "G" "T" "A" "G" "A" "A" "A"
## [21655] "T" "C" "A" "A" "A" "G" "A" "T" "G" "T" "A" "G" "A" "C" "T" "T" "A" "G"
## [21673] "T" "T" "G" "T" "T" "T" "G" "G" "G" "A" "A" "C" "G" "G" "C" "T" "C" "G"
## [21691] "A" "C" "G" "A" "C" "T" "T" "T" "A" "T" "T" "T" "T" "C" "A" "T" "C" "T"
## [21709] "A" "T" "T" "C" "T" "G" "T" "A" "A" "C" "A" "G" "A" "T" "T" "C" "C" "T"
## [21727] "G" "T" "G" "T" "A" "A" "G" "A" "A" "A" "C" "G" "T" "T" "C" "A" "A" "G"
## [21745] "T" "C" "G" "A" "A" "G" "A" "C" "G" "T" "C" "A" "A" "C" "G" "T" "T" "G"

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## [21763] "A" "T" "C" "A" "C" "A" "A" "A" "A" "C" "T" "C" "A" "A" "A" "A" "A" "G"
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## [21799] "A" "C" "T" "A" "C" "T" "T" "T" "T" "G" "C" "A" "T" "A" "A" "T" "T" "G"
## [21817] "C" "A" "T" "T" "C" "G" "T" "A" "G" "T" "T" "T" "G" "T" "A" "A" "A" "A"
## [21835] "T" "T" "G" "A" "C" "G" "T" "T" "G" "A" "A" "G" "G" "C" "G" "T" "G" "A"
## [21853] "T" "A" "G" "T" "G" "G" "T" "T" "G" "T" "A" "G" "T" "C" "T" "G" "T" "G"
## [21871] "A" "T" "T" "A" "C" "G" "G" "A" "C" "T" "A" "G" "A" "T" "C" "A" "T" "T"
## [21889] "G" "T" "C" "A" "T" "A" "T" "C" "C" "A" "A" "C" "T" "G" "T" "G" "T" "A"
## [21907] "T" "T" "C" "G" "A" "C" "T" "G" "A" "C" "A" "T" "C" "A" "T" "T" "T" "G"
## [21925] "T" "C" "T" "G" "C" "G" "A" "C" "T" "A" "A" "A" "A" "C" "G" "T" "C" "T"
## [21943] "A" "C" "T" "A" "A" "G" "A" "A" "G" "T" "G" "T" "A" "A" "A" "A" "C" "T"
## [21961] "A" "A" "A" "T" "G" "G" "T" "A" "G" "T" "T" "T" "T" "T" "G" "A" "T" "A"
## [21979] "T" "T" "G" "T" "A" "A" "T" "T" "A" "T" "C" "C" "G" "T" "T" "A" "C" "T"
## [21997] "T" "G" "G" "A" "A" "A" "T" "C" "A" "C" "A" "A" "T" "A" "A" "T" "C" "G"
## [22015] "A" "G" "A" "G" "T" "C" "C" "A" "A" "C" "A" "G" "A" "T" "T" "C" "A" "A"
## [22033] "T" "T" "G" "T" "T" "T" "T" "A" "C" "T" "C" "T" "C" "T" "C" "T" "C" "T"
## [22051] "T" "A" "C" "A" "G" "A" "A" "A" "G" "T" "A" "T" "T" "C" "A" "G" "A" "A"
## [22069] "A" "A" "C" "T" "G" "G" "T" "C" "G" "A" "A" "A" "T" "A" "G" "T" "T" "T"
## [22087] "C" "A" "T" "T" "T" "C" "T" "A" "C" "C" "T" "A" "C" "C" "T" "T" "G" "G"
## [22105] "T" "A" "A" "G" "A" "A" "G" "T" "G" "A" "C" "A" "T" "T" "G" "T" "G" "A"
## [22123] "T" "A" "G" "T" "T" "G" "C" "T" "A" "C" "A" "T" "T" "C" "T" "T" "C" "T"
## [22141] "G" "A" "C" "C" "A" "G" "T" "C" "A" "T" "C" "C" "T" "A" "A" "A" "T" "A"
## [22159] "A" "C" "C" "A" "G" "A" "A" "A" "A" "T" "T" "T" "G" "A" "C" "A" "T" "C"
## [22177] "A" "C" "T" "G" "T" "T" "C" "A" "G" "A" "G" "A" "G" "C" "G" "T" "T" "G"
## [22195] "A" "A" "G" "T" "A" "G" "T" "G" "A" "T" "T" "A" "T" "T" "T" "A" "C" "A"
## [22213] "T" "G" "A" "T" "G" "G" "T" "C" "G" "T" "G" "T" "C" "T" "T" "A" "C" "A"
## [22231] "T" "A" "G" "T" "G" "T" "T" "A" "A" "T" "T" "G" "T" "G" "T" "T" "A" "A"
## [22249] "G" "G" "T" "T" "A" "A" "C" "A" "C" "A" "T" "C" "A" "A" "A" "C" "G" "T"
## [22267] "T" "T" "T" "C" "G" "G" "A" "A" "A" "T" "G" "G" "A" "G" "G" "T" "A" "A"
## [22285] "T" "C" "G" "T" "A" "T" "C" "T" "G" "T" "A" "T" "T" "T" "T" "C" "C" "T"
## [22303] "G" "G" "A" "A" "G" "A" "T" "T" "G" "T" "G" "G" "T" "A" "A" "T" "T" "G"
## [22321] "T" "T" "A" "T" "C" "A" "A" "C" "A" "T" "G" "T" "A" "A" "G" "C" "T" "G"
## [22339] "A" "G" "A" "A" "C" "A" "A" "C" "G" "A" "G" "A" "T" "A" "A" "T" "G" "C"
## [22357] "A" "A" "A" "C" "A" "T" "T" "G" "T" "G" "T" "A" "G" "T" "A" "T" "G" "T"
## [22375] "T" "C" "A" "A" "C" "T" "A" "C" "T" "T" "A" "A" "T" "G" "T" "T" "G" "G"
## [22393] "C" "A" "G" "A" "T" "G" "T" "T" "G" "T" "A" "C" "G" "T" "G" "T" "A" "T"
## [22411] "T" "G" "A" "A" "A" "A" "G" "G" "T" "A" "T" "G" "T" "A" "T" "T" "A" "T"
## [22429] "T" "T" "T" "A" "C" "T" "A" "C" "G" "T" "T" "T" "C" "T" "T" "C" "T" "A"
## [22447] "C" "A" "T" "G" "T" "A" "A" "G" "A" "T" "T" "G" "G" "T" "A" "T" "C" "G"
## [22465] "A" "C" "T" "T" "T" "A" "G" "C" "C" "C" "C" "G" "G" "T" "A" "A" "A" "C"
## [22483] "A" "T" "G" "T" "T" "C" "T" "A" "A" "T" "T" "A" "A" "T" "A" "A" "T" "T"
## [22501] "G" "G" "T" "G" "T" "A" "T" "T" "C" "G" "G" "T" "T" "C" "T" "T" "A" "A"
## [22519] "T" "G" "A" "T" "T" "A" "T" "T" "T" "T" "A" "C" "A" "T" "G" "A" "C" "G"
## [22537] "T" "T" "T" "T" "A" "T" "C" "G" "A" "C" "T" "T" "T" "T" "T" "G" "T" "T"
## [22555] "A" "A" "C" "G" "T" "A" "C" "T" "A" "A" "C" "G" "T" "C" "G" "G" "T" "T"
## [22573] "A" "G" "G" "T" "T" "C" "A" "T" "G" "T" "A" "T" "C" "T" "T" "T" "T" "T"
## [22591] "G" "G" "A" "T" "C" "A" "C" "T" "T" "T" "T" "C" "T" "T" "A" "T" "A" "T"
## [22609] "A" "C" "G" "G" "T" "T" "T" "T" "T" "G" "G" "T" "G" "A" "G" "A" "C" "G"
## [22627] "T" "T" "G" "A" "T" "T" "C" "G" "G" "T" "T" "T" "T" "C" "G" "T" "C" "A"
## [22645] "A" "T" "T" "T" "A" "G" "G" "G" "T" "A" "A" "A" "T" "T" "T" "T" "C" "T"
## [22663] "A" "C" "T" "T" "T" "A" "C" "C" "A" "T" "T" "A" "A" "A" "C" "A" "T" "A"
## [22681] "T" "C" "A" "A" "A" "G" "A" "T" "T" "T" "C" "T" "T" "C" "C" "T" "A" "T"
## [22699] "C" "C" "A" "C" "A" "G" "A" "T" "T" "T" "C" "T" "T" "A" "G" "A" "T" "T"
## [22717] "T" "G" "G" "T" "G" "A" "T" "T" "C" "T" "G" "T" "T" "T" "G" "T" "G" "A"

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## [22735] "T" "G" "T" "T" "C" "T" "A" "T" "A" "T" "C" "T" "T" "G" "G" "T" "C" "A"
## [22753] "T" "G" "T" "C" "A" "T" "C" "C" "A" "A" "C" "G" "T" "T" "A" "T" "C" "A"
## [22771] "C" "T" "G" "T" "A" "A" "T" "C" "A" "T" "C" "T" "C" "A" "A" "G" "T" "T"
## [22789] "T" "A" "T" "C" "G" "G" "A" "A" "G" "A" "G" "A" "C" "A" "T" "T" "G" "G"
## [22807] "T" "C" "A" "T" "G" "T" "C" "A" "T" "T" "C" "T" "T" "C" "C" "G" "T" "A"
## [22825] "C" "G" "G" "A" "T" "T" "T" "A" "A" "T" "C" "T" "G" "T" "A" "A" "T" "T"
## [22843] "T" "T" "G" "T" "G" "G" "A" "T" "T" "T" "C" "G" "T" "C" "G" "C" "C" "A"
## [22861] "A" "C" "T" "C" "A" "T" "C" "T" "A" "A" "T" "T" "T" "C" "T" "T" "G" "G"
## [22879] "A" "T" "C" "C" "G" "T" "T" "T" "G" "T" "G" "A" "A" "T" "T" "A" "T" "C"
## [22897] "A" "T" "T" "T" "T" "T" "G" "G" "T" "T" "T" "A" "A" "T" "A" "T" "T" "A"
## [22915] "T" "A" "A" "A" "T" "A" "G" "T" "C" "A" "A" "A" "T" "C" "T" "T" "T" "T"
## [22933] "T" "A" "A" "T" "C" "C" "A" "C" "T" "G" "A" "A" "G" "T" "T" "T" "A" "T"
## [22951] "T" "A" "A" "T" "T" "T" "A" "C" "T" "T" "C" "G" "G" "A" "G" "A" "T" "C"
## [22969] "T" "G" "T" "T" "T" "T" "A" "A" "A" "T" "G" "G" "C" "T" "G" "T" "G" "A"
## [22987] "G" "A" "A" "T" "T" "G" "T" "C" "A" "T" "A" "A" "G" "A" "A" "A" "C" "G"
## [23005] "A" "T" "A" "T" "C" "A" "T" "C" "A" "G" "C" "C" "G" "T" "A" "T" "C" "T"
## [23023] "A" "C" "G" "A" "A" "A" "T" "T" "A" "A" "G" "A" "T" "C" "T" "T" "A" "A"
## [23041] "A" "C" "A" "T" "G" "A" "A" "G" "A" "T" "C" "A" "T" "T" "T" "T" "C" "A"
## [23059] "T" "G" "T" "G" "T" "T" "A" "A" "C" "A" "T" "C" "G" "T" "T" "A" "T" "T"
## [23077] "T" "C" "A" "T" "T" "T" "C" "T" "T" "T" "A" "T" "T" "C" "C" "G" "T" "A"
## [23095] "T" "A" "T" "T" "A" "A" "T" "C" "A" "T" "G" "T" "T" "T" "G" "T" "G" "C"
## [23113] "C" "A" "A" "A" "T" "T" "T" "G" "T" "G" "G" "C" "A" "C" "A" "T" "T" "G"
## [23131] "A" "T" "A" "C" "A" "A" "T" "C" "A" "T" "C" "A" "A" "C" "A" "T" "G" "A"
## [23149] "T" "T" "G" "T" "T" "G" "A" "A" "A" "C" "A" "A" "T" "T" "C" "T" "T" "T"
## [23167] "T" "C" "C" "G" "A" "A" "T" "C" "G" "T" "A" "T" "T" "A" "A" "T" "C" "G"
## [23185] "A" "T" "A" "T" "C" "A" "T" "A" "G" "G" "G" "T" "T" "C" "C" "C" "T" "G"
## [23203] "T" "G" "A" "T" "A" "A" "T" "T" "G" "T" "C" "G" "T" "C" "G" "A" "T" "T"
## [23221] "T" "G" "G" "T" "A" "C" "T" "C" "A" "T" "C" "G" "T" "T" "C" "C" "C" "A"
## [23239] "A" "A" "A" "G" "T" "T" "T" "G" "G" "A" "T" "T" "A" "T" "G" "A" "G" "A"
## [23257] "T" "C" "T" "A" "T" "T" "A" "A" "G" "T" "A" "A" "T" "C" "C" "A" "A" "A"
## [23275] "G" "A" "A" "T" "T" "A" "T" "C" "A" "T" "T" "C" "T" "G" "A" "T" "C" "T"
## [23293] "T" "A" "A" "C" "A" "G" "A" "T" "G" "T" "A" "T" "T" "C" "G" "T" "C" "G"
## [23311] "G" "T" "A" "A" "T" "C" "T" "A" "G" "A" "C" "A" "C" "A" "C" "C" "G" "G"
## [23329] "T" "T" "G" "G" "A" "G" "A" "A" "G" "A" "C" "A" "T" "T" "A" "A" "A" "A"
## [23347] "A" "T" "T" "T" "G" "A" "T" "A" "A" "T" "A" "A" "A" "C" "G" "A" "C" "C"
## [23365] "A" "A" "A" "T" "T" "C" "A" "T" "A" "T" "T" "A" "C" "A" "G" "A" "G" "G"
## [23383] "A" "T" "G" "T" "T" "G" "A" "A" "G" "C" "C" "A" "T" "C" "A" "A" "A" "A"
## [23401] "G" "T" "G" "T" "A" "A" "T" "G" "T" "G" "A" "G" "T" "T" "C" "T" "T" "G"
## [23419] "C" "A" "G" "A" "A" "A" "G" "A" "C" "A" "T" "A" "C" "C" "A" "T" "C" "C"
## [23437] "T" "A" "A" "A" "A" "G" "G" "T" "G" "A" "T" "G" "A" "A" "G" "A" "A" "G"
## [23455] "T" "C" "T" "C" "T" "G" "A" "T" "C" "A" "A" "A" "A" "T" "C" "T" "A" "G"
## [23473] "A" "A" "G" "C" "G" "T" "C" "C" "G" "T" "T" "C" "T" "A" "A" "T" "A" "G"
## [23491] "G" "T" "A" "A" "G" "G" "G" "A" "C" "G" "C" "G" "C" "A" "G" "G" "A" "G"
## [23509] "A" "C" "T" "G" "A" "A" "G" "T" "C" "A" "T" "G" "T" "A" "N" "N" "N" "N"
## [23527] "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N"
## [23545] "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "A" "G" "G" "T" "T" "T" "C"
## [23563] "T" "G" "T" "T" "G" "C" "A" "T" "A" "T" "G" "T" "G" "G" "T" "C" "C" "A"
## [23581] "T" "A" "A" "A" "C" "C" "A" "A" "A" "T" "A" "T" "G" "C" "A" "C" "C" "G"
## [23599] "A" "A" "A" "T" "A" "A" "T" "C" "A" "A" "C" "G" "T" "A" "A" "C" "A" "A"
## [23617] "T" "T" "G" "T" "A" "C" "G" "G" "T" "T" "T" "G" "T" "T" "A" "T" "C" "C"
## [23635] "A" "A" "A" "T" "A" "C" "A" "T" "T" "G" "T" "T" "A" "A" "A" "T" "C" "G"
## [23653] "A" "G" "G" "A" "A" "A" "G" "A" "A" "T" "T" "T" "T" "C" "T" "C" "C" "C"
## [23671] "A" "C" "A" "C" "A" "T" "C" "A" "C" "A" "A" "A" "T" "A" "T" "T" "A" "G"
## [23689] "T" "T" "A" "T" "C" "G" "G" "T" "G" "G" "T" "G" "T" "A" "G" "T" "G" "G"

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## [23707] "T" "A" "A" "A" "T" "T" "C" "A" "G" "T" "C" "C" "C" "T" "T" "T" "T" "T"
## [23725] "A" "C" "A" "T" "T" "G" "A" "A" "A" "T" "T" "C" "G" "A" "G" "A" "G" "A"
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## [23887] "T" "A" "A" "C" "A" "G" "A" "A" "A" "G" "A" "A" "T" "A" "T" "T" "A" "T"
## [23905] "T" "A" "A" "C" "A" "G" "G" "T" "T" "G" "A" "A" "T" "C" "C" "C" "A" "G"
## [23923] "T" "T" "A" "A" "A" "G" "A" "C" "A" "T" "G" "T" "T" "T" "G" "T" "T" "G"
## [23941] "T" "G" "G" "T" "A" "G" "G" "T" "T" "A" "A" "A" "T" "A" "T" "T" "C" "A"
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## [23977] "A" "C" "A" "C" "A" "T" "T" "G" "A" "C" "A" "A" "A" "A" "G" "A" "A" "A"
## [23995] "C" "A" "T" "C" "T" "T" "T" "T" "G" "T" "A" "G" "G" "C" "A" "T" "T" "A"
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## [26173] "A" "A" "G" "C" "A" "C" "G" "A" "C" "T" "A" "A" "T" "T" "T" "T" "A" "A"
## [26191] "A" "A" "G" "T" "A" "T" "T" "C" "G" "T" "G" "A" "G" "A" "A" "T" "T" "C"
## [26209] "T" "T" "C" "A" "A" "C" "T" "T" "A" "C" "A" "G" "A" "A" "G" "T" "G" "G"
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## [26245] "C" "T" "G" "T" "T" "G" "T" "A" "C" "T" "T" "C" "T" "G" "T" "C" "A" "C"
## [26263] "A" "A" "A" "T" "C" "G" "T" "T" "C" "T" "A" "A" "C" "A" "C" "A" "G" "G"
## [26281] "C" "G" "A" "A" "T" "T" "T" "T" "G" "T" "G" "T" "T" "G" "A" "T" "G" "G"
## [26299] "T" "G" "G" "G" "T" "G" "A" "A" "A" "T" "T" "C" "A" "C" "C" "A" "G" "G"
## [26317] "T" "A" "A" "T" "C" "A" "T" "C" "G" "A" "T" "A" "C" "A" "T" "T" "A" "G"
## [26335] "T" "A" "G" "T" "C" "T" "A" "A" "G" "T" "T" "G" "A" "A" "C" "G" "T" "A"
## [26353] "C" "C" "G" "T" "A" "A" "C" "A" "A" "T" "C" "A" "T" "C" "G" "G" "A" "A"
## [26371] "T" "A" "A" "A" "T" "T" "C" "C" "G" "A" "G" "G" "A" "C" "G" "T" "T" "G"
## [26389] "T" "G" "G" "A" "G" "G" "A" "G" "G" "T" "A" "C" "A" "A" "A" "T" "T" "C"
## [26407] "C" "A" "T" "T" "T" "G" "T" "A" "A" "C" "C" "G" "A" "C" "G" "T" "A" "A"
## [26425] "T" "T" "G" "T" "T" "G" "G" "T" "G" "A" "C" "A" "A" "C" "C" "A" "A" "A"
## [26443] "A" "T" "G" "G" "A" "A" "A" "A" "A" "T" "C" "G" "A" "A" "G" "A" "A" "G"
## [26461] "G" "T" "G" "T" "T" "A" "C" "A" "G" "A" "C" "G" "T" "A" "A" "A" "A" "A"
## [26479] "T" "T" "A" "C" "A" "T" "A" "T" "G" "T" "A" "A" "C" "A" "G" "T" "C" "A"
## [26497] "T" "T" "C" "A" "A" "A" "A" "T" "T" "T" "A" "T" "T" "G" "G" "T" "G" "A"
## [26515] "T" "T" "T" "T" "G" "A" "T" "A" "A" "G" "T" "G" "A" "A" "G" "T" "T" "A"
## [26533] "T" "C" "A" "G" "A" "C" "T" "T" "G" "T" "T" "G" "A" "C" "C" "A" "C" "A"
## [26551] "T" "T" "C" "A" "A" "G" "G" "T" "A" "G" "A" "G" "A" "T" "T" "A" "A" "C"
## [26569] "T" "C" "C" "A" "A" "C" "T" "T" "G" "G" "A" "G" "T" "T" "G" "T" "T" "A"
## [26587] "A" "C" "A" "A" "A" "C" "T" "T" "A" "T" "C" "A" "T" "C" "A" "A" "C" "A"
## [26605] "G" "A" "C" "T" "A" "A" "C" "A" "G" "G" "A" "G" "T" "G" "A" "C" "G" "G"

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## [26659] "A" "T" "T" "G" "G" "T" "T" "A" "G" "A" "A" "G" "A" "A" "G" "A" "A" "C"
## [26677] "G" "A" "G" "A" "A" "G" "A" "A" "G" "T" "C" "C" "A" "A" "C" "T" "T" "C"
## [26695] "T" "C" "G" "T" "C" "G" "T" "C" "T" "T" "C" "A" "C" "C" "G" "T" "G" "G"
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## [26731] "A" "A" "C" "C" "A" "T" "T" "A" "G" "T" "A" "G" "A" "A" "G" "T" "C" "A"
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## [26785] "A" "A" "G" "A" "A" "G" "T" "G" "T" "T" "A" "G" "T" "G" "G" "A" "A" "G"
## [26803] "A" "A" "G" "A" "A" "G" "T" "A" "G" "G" "A" "G" "T" "A" "G" "A" "C" "C"
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## [26839] "G" "T" "A" "T" "A" "C" "A" "C" "T" "T" "C" "G" "G" "T" "T" "A" "A" "A"
## [26857] "T" "T" "T" "G" "A" "G" "T" "G" "G" "T" "C" "T" "G" "A" "G" "T" "A" "G"
## [26875] "T" "T" "T" "A" "T" "T" "C" "A" "T" "C" "A" "T" "A" "C" "A" "T" "C" "G"
## [26893] "G" "T" "A" "T" "G" "A" "G" "G" "T" "G" "A" "G" "T" "A" "G" "A" "T" "T"
## [26911] "T" "A" "G" "T" "T" "A" "C" "G" "G" "G" "T" "C" "A" "C" "C" "A" "C" "A"
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## [26965] "T" "C" "G" "T" "A" "G" "A" "C" "G" "G" "T" "G" "T" "T" "G" "T" "G" "T"
## [26983] "C" "C" "G" "C" "T" "T" "G" "A" "G" "T" "A" "A" "A" "T" "G" "A" "A" "G"
## [27001] "A" "C" "A" "T" "G" "G" "C" "T" "C" "A" "A" "G" "T" "T" "G" "A" "C" "A"
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## [27073] "T" "C" "A" "C" "T" "A" "T" "A" "A" "G" "T" "G" "T" "G" "A" "G" "A" "A"
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## [27109] "G" "T" "G" "T" "C" "A" "C" "A" "G" "T" "A" "G" "T" "G" "G" "T" "T" "T"
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## [27343] "A" "T" "T" "G" "T" "G" "A" "A" "G" "A" "C" "A" "C" "C" "C" "T" "T" "C"
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## [27433] "A" "A" "A" "T" "T" "G" "T" "G" "T" "G" "A" "A" "A" "G" "A" "C" "A" "T"
## [27451] "G" "T" "T" "A" "G" "G" "G" "A" "A" "A" "C" "T" "C" "A" "C" "G" "C" "A"
## [27469] "C" "T" "G" "T" "T" "T" "A" "C" "A" "A" "A" "G" "T" "G" "G" "A" "T" "T"
## [27487] "T" "A" "A" "G" "T" "T" "C" "C" "G" "A" "A" "A" "T" "T" "C" "A" "A" "A"
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## [27523] "T" "C" "T" "C" "A" "G" "T" "C" "G" "T" "G" "T" "G" "T" "T" "T" "C" "G"
## [27541] "G" "T" "T" "T" "T" "T" "A" "A" "A" "T" "A" "A" "A" "T" "G" "T" "T" "C"
## [27559] "G" "A" "A" "T" "T" "T" "C" "T" "T" "A" "C" "A" "G" "A" "C" "T" "T" "G"
## [27577] "T" "G" "A" "G" "A" "G" "G" "A" "A" "T" "T" "A" "A" "A" "G" "G" "A" "A"

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## [27595] "A" "C" "G" "T" "G" "T" "C" "C" "A" "C" "T" "G" "T" "T" "A" "A" "A" "C"
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## [27631] "T" "C" "G" "T" "G" "T" "C" "C" "A" "A" "C" "T" "C" "T" "A" "T" "T" "T"
## [27649] "A" "A" "A" "T" "T" "G" "T" "T" "A" "A" "A" "G" "G" "G" "T" "T" "G" "G"
## [27667] "C" "A" "G" "A" "G" "A" "T" "T" "C" "T" "T" "T" "G" "A" "G" "A" "T" "G"
## [27685] "T" "G" "G" "A" "A" "G" "G" "A" "A" "T" "T" "T" "G" "A" "A" "G" "A" "G"
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## [27721] "C" "C" "C" "A" "A" "A" "C" "T" "C" "A" "A" "A" "A" "A" "A" "G" "T" "A" "T"
## [27739] "T" "T" "G" "T" "C" "A" "C" "G" "G" "T" "T" "T" "C" "T" "A" "C" "A" "A"
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## [27775] "G" "T" "T" "G" "A" "C" "T" "T" "G" "T" "T" "G" "T" "G" "G" "T" "G" "G"
## [27793] "A" "C" "A" "T" "T" "A" "C" "A" "T" "C" "C" "G" "G" "T" "A" "A" "T" "G"
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## [27829] "G" "T" "T" "T" "A" "G" "T" "C" "T" "A" "C" "A" "C" "T" "T" "G" "T" "A"
## [27847] "G" "T" "A" "T" "C" "G" "T" "A" "G" "T" "T" "A" "C" "T" "C" "A" "G" "A"
## [27865] "G" "T" "C" "A" "C" "T" "T" "A" "T" "G" "A" "C" "A" "C" "T" "T" "T" "A"
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## [27901] "T" "C" "G" "C" "C" "G" "G" "A" "A" "G" "A" "C" "A" "T" "T" "T" "T" "G"
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## [27937] "T" "C" "A" "A" "A" "G" "T" "T" "C" "T" "C" "A" "C" "G" "C" "C" "C" "T"
## [27955] "C" "T" "T" "T" "T" "A" "A" "C" "T" "A" "G" "C" "A" "T" "G" "T" "T" "G"
## [27973] "T" "G" "C" "T" "C" "G" "T" "C" "G" "G" "A" "G" "A" "C" "T" "A" "C" "G"
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## [28243] "A" "A" "G" "T" "T" "C" "T" "T" "C" "C" "A" "A" "C" "A" "G" "T" "A" "A"
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## [28279] "A" "G" "G" "T" "T" "G" "T" "T" "G" "T" "G" "G" "A" "C" "A" "T" "A" "C"
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## [28351] "C" "G" "T" "T" "G" "G" "T" "T" "G" "T" "A" "T" "T" "C" "T" "C" "T" "T"
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## [28495] "T" "T" "A" "A" "A" "A" "T" "T" "G" "T" "T" "G" "T" "C" "G" "T" "A" "A"
## [28513] "A" "A" "C" "C" "C" "C" "A" "T" "T" "C" "A" "T" "T" "G" "G" "T" "G" "T"
## [28531] "T" "C" "A" "T" "C" "A" "C" "C" "G" "T" "G" "G" "A" "A" "G" "A" "A" "A"
## [28549] "T" "C" "A" "G" "T" "T" "T" "A" "A" "G" "A" "G" "T" "C" "A" "C" "G" "G"

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## [28567] "T" "G" "T" "T" "T" "T" "A" "A" "G" "C" "G" "T" "T" "C" "A" "C" "C" "G"
## [28585] "A" "A" "A" "T" "T" "G" "T" "T" "T" "T" "A" "G" "C" "G" "G" "G" "C" "A"
## [28603] "G" "A" "C" "G" "G" "T" "A" "C" "T" "T" "C" "A" "A" "A" "G" "T" "G" "G"
## [28621] "T" "G" "T" "T" "A" "C" "T" "A" "G" "T" "G" "T" "G" "A" "A" "G" "T" "A"
## [28639] "C" "T" "C" "T" "C" "A" "A" "C" "T" "T" "T" "C" "C" "G" "T" "G" "T" "A"
## [28657] "A" "A" "C" "C" "A" "A" "C" "G" "T" "A" "A" "G" "T" "A" "A" "A" "C" "C"
## [28675] "A" "C" "T" "G" "C" "G" "T" "T" "G" "A" "C" "C" "T" "A" "T" "C" "T" "G"
## [28693] "T" "C" "T" "A" "G" "C" "T" "T" "A" "A" "G" "A" "T" "G" "G" "G" "T" "A"
## [28711] "T" "T" "T" "C" "G" "G" "T" "A" "G" "T" "T" "C" "G" "A" "A" "A" "A" "A"
## [28729] "G" "A" "A" "A" "A" "G" "T" "T" "G" "G" "G" "A" "A" "C" "C" "A" "A" "C"
## [28747] "T" "T" "A" "T" "C" "A" "G" "A" "A" "C" "T" "A" "A" "T" "A" "C" "C" "T"
## [28765] "T" "A" "A" "A" "T" "T" "C" "C" "C" "T" "T" "T" "A" "T" "G" "T" "T" "T"
## [28783] "T" "A" "A" "A" "C" "C" "T" "G" "T" "A" "A" "G" "G" "G" "G" "T" "A" "A"
## [28801] "C" "T" "T" "C" "C" "A" "C" "A" "G" "T" "T" "T" "A" "A" "A" "G" "A" "A"
## [28819] "A" "C" "G" "G" "T" "T" "A" "A" "A" "T" "T" "A" "A" "A" "G" "T" "T" "T"
## [28837] "T" "C" "C" "A" "C" "A" "G" "A" "C" "G" "T" "T" "A" "A" "G" "T" "A" "T"
## [28855] "C" "G" "A" "G" "A" "A" "A" "A" "G" "T" "C" "T" "T" "G" "C" "A" "A" "G"
## [28873] "G" "C" "A" "C" "A" "T" "G" "G" "T" "T" "C" "G" "T" "T" "A" "A" "A" "G"
## [28891] "T" "A" "C" "G" "A" "G" "T" "A" "C" "A" "A" "G" "T" "G" "C" "C" "G" "T"
## [28909] "C" "G" "T" "C" "A" "T" "A" "T" "G" "T" "G" "G" "G" "G" "A" "G" "A" "A"
## [28927] "T" "C" "A" "C" "A" "G" "T" "T" "A" "T" "T" "T" "C" "A" "G" "G" "T" "C"
## [28945] "A" "A" "C" "A" "A" "G" "C" "C" "T" "G" "T" "T" "T" "C" "A" "C" "G" "T"
## [28963] "A" "C" "T" "T" "C" "G" "A" "A" "A" "T" "G" "G" "T" "C" "G" "T" "G" "C"
## [28981] "A" "C" "G" "A" "T" "C" "T" "T" "C" "C" "A" "G" "A" "A" "A" "T" "T" "A"
## [28999] "C" "G" "T" "G" "A" "G" "T" "T" "C" "T" "C" "C" "C" "A" "T" "C" "G" "G"
## [29017] "T" "A" "G" "T" "C" "C" "C" "G" "G" "T" "G" "T" "C" "T" "T" "C" "A" "A"
## [29035] "C" "A" "A" "T" "A" "G" "C" "T" "G" "T" "A" "T" "C" "G" "C" "T" "C" "A"
## [29053] "C" "A" "T" "A" "C" "G" "G" "G" "G" "A" "G" "G" "C" "A" "A" "T" "T" "C"
## [29071] "G" "A" "G" "T" "G" "C" "G" "T" "A" "C" "T" "C" "A" "A" "G" "T" "G" "C"
## [29089] "C" "C" "A" "T" "T" "G" "T" "G" "G" "T" "G" "A" "C" "G" "A" "T" "A" "C"
## [29107] "A" "A" "A" "T" "C" "A" "C" "A" "A" "G" "G" "T" "C" "A" "A" "A" "A" "G"
## [29125] "A" "A" "C" "T" "T" "T" "T" "A" "G" "A" "A" "G" "T" "A" "T" "T" "C" "C"
## [29143] "T" "A" "G" "T" "C" "A" "C" "G" "G" "T" "T" "C" "G" "A" "G" "C" "A" "G"
## [29161] "C" "G" "G" "A" "T" "T" "C" "A" "G" "T" "T" "T" "A" "C" "T" "G" "A" "A"
## [29179] "A" "T" "C" "T" "A" "G" "C" "C" "G" "C" "G" "G" "C" "A" "T" "T" "G" "A"
## [29197] "T" "A" "C" "C" "G" "G" "T" "G" "G" "T" "C" "G" "A" "G" "G" "A" "A" "A"
## [29215] "T" "A" "A" "T" "G" "G" "C" "A" "A" "G" "A" "A" "T" "G" "C" "T" "T" "C"
## [29233] "T" "T" "C" "T" "T" "G" "G" "A" "A" "C" "G" "C" "C" "A" "T" "T" "C" "G"
## [29251] "G" "T" "G" "A" "C" "C" "A" "T" "A" "A" "A" "G" "C" "G" "G" "G" "T" "G"
## [29269] "T" "A" "C" "T" "C" "C" "C" "T" "G" "T" "T" "C" "C" "T" "G" "T" "G" "G"
## [29287] "T" "T" "C" "A" "C" "A" "G" "A" "G" "T" "G" "G" "T" "G" "A" "T" "G" "C"
## [29305] "T" "G" "G" "C" "A" "T" "G" "A" "C" "T" "T" "A" "C" "G" "G" "A" "A" "G"
## [29323] "C" "T" "C" "A" "A" "G" "A" "C" "G" "A" "T" "G" "G" "T" "C" "G" "A" "G"
## [29341] "T" "T" "G" "G" "T" "A" "T" "T" "G" "T" "A" "C" "T" "G" "G" "T" "A" "C"
## [29359] "T" "C" "C" "A" "C" "G" "T" "C" "A" "A" "G" "C" "T" "C" "G" "T" "A" "G"
## [29377] "G" "C" "T" "T" "G" "C" "A" "A" "A" "C" "T" "A" "C" "T" "T" "G" "T" "G"
## [29395] "T" "A" "T" "C" "C" "C" "G" "A" "C" "A" "A" "G" "T" "T" "C" "A" "A" "C"
## [29413] "T" "C" "C" "G" "T" "T" "T" "T" "G" "C" "G" "G" "A" "A" "A" "A" "A" "G"
## [29431] "T" "T" "G" "A" "A" "G" "A" "T" "G" "A" "T" "T" "C" "G" "G" "T" "G" "T"
## [29449] "T" "C" "A" "C" "G" "G" "T" "A" "G" "A" "A" "A" "T" "T" "C" "T" "A" "C"
## [29467] "A" "A" "C" "T" "G" "C" "A" "C" "G" "G" "A" "G" "A" "C" "T" "A" "T" "T"
## [29485] "C" "T" "G" "G" "A" "G" "G" "A" "G" "G" "T" "G" "C" "C" "T" "C" "A" "G"
## [29503] "A" "G" "G" "T" "T" "T" "C" "G" "G" "T" "G" "C" "A" "T" "G" "C" "T" "C"
## [29521] "G" "T" "G" "C" "A" "G" "C" "G" "C" "T" "T" "G" "G" "A" "C" "A" "T" "T"

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## [29539] "T" "T" "G" "T" "C" "C" "G" "T" "T" "T" "G" "A" "C" "T" "C" "A" "A" "C"
## [29557] "C" "T" "G" "C" "A" "C" "A" "C" "A" "A" "A" "A" "G" "A" "G" "C" "A" "A"
## [29575] "C" "T" "T" "T" "G" "G" "T" "C" "C" "C" "T" "G" "T" "T" "C" "C" "G" "A"
## [29593] "G" "A" "G" "G" "T" "A" "G" "A" "A" "T" "G" "G" "A" "A" "A" "G" "C" "C"
## [29611] "A" "G" "T" "G" "T" "G" "G" "G" "C" "C" "T" "G" "T" "T" "T" "T" "G" "G"
## [29629] "A" "T" "C" "T" "A" "C" "A" "C" "G" "A" "C" "T" "A" "C" "T" "A" "G" "C"
## [29647] "C" "G" "A" "C" "G" "T" "T" "T" "T" "G" "C" "C" "T" "G" "C" "T" "T" "T"
## [29665] "G" "G" "C" "A" "T" "T" "C" "G" "T" "C" "G" "G" "A" "C" "G" "T" "C" "T"
## [29683] "T" "C" "T" "A" "T" "C" "T" "G" "C" "T" "C" "A" "A" "T" "G" "A" "G" "C"
## [29701] "A" "C" "A" "G" "G" "A" "C" "A" "G" "T" "T" "G" "C" "T" "G" "T" "C" "A"
## [29719] "T" "T" "A" "A" "T" "C" "A" "A" "T" "A" "A" "T" "T" "A" "A" "T" "A" "T"
## [29737] "G" "A" "C" "G" "C" "A" "C" "T" "C" "A" "C" "G" "T" "G" "A" "T" "T" "C"
## [29755] "G" "T" "A" "C" "G" "T" "C" "G" "G" "C" "T" "C" "A" "C" "T" "G" "T" "C"
## [29773] "G" "G" "T" "G" "T" "G" "T" "C" "T" "A" "A" "A" "A" "T" "T" "T" "C" "A"
## [29791] "A" "G" "C" "A" "A" "A" "T" "C" "T" "C" "T" "T" "G" "T" "C" "T" "A" "G"
## [29809] "A" "T" "G" "T" "T" "C" "T" "C" "T" "A" "G" "C" "T" "T" "T" "C" "A" "A"
## [29827] "C" "C" "A" "A" "C" "C" "A" "A" "A" "C"
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#OMICRON

```
reverse(unlist(seqinr::getSequence(Omicron)))
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## [1] "C" "C" "T" "A" "T" "C" "G" "T" "G" "A" "T" "G" "A" "T" "T" "T" "T" "A"
## [19] "A" "T" "T" "A" "A" "A" "A" "T" "G" "T" "G" "T" "A" "A" "T" "C" "C" "C"
## [37] "G" "A" "G" "A" "A" "G" "G" "T" "A" "T" "A" "T" "C" "C" "G" "T" "C" "G"
## [55] "A" "G" "A" "G" "G" "G" "A" "T" "C" "G" "T" "A" "A" "C" "A" "A" "G" "T"
## [73] "G" "A" "C" "A" "T" "G" "T" "G" "A" "G" "C" "T" "A" "G" "C" "A" "T" "G"
## [91] "A" "G" "G" "C" "G" "C" "A" "C" "C" "G" "G" "A" "G" "C" "C" "A" "C" "T"
## [109] "T" "T" "T" "A" "C" "A" "C" "C" "A" "C" "C" "G" "A" "G" "A" "A" "A" "G"
## [127] "T" "T" "C" "A" "G" "G" "A" "G" "G" "G" "A" "T" "T" "A" "C" "A" "A" "T"
## [145] "G" "T" "G" "T" "G" "A" "C" "T" "A" "A" "T" "T" "T" "C" "T" "A" "A" "C"
## [163] "G" "A" "T" "A" "C" "A" "C" "T" "C" "T" "A" "A" "T" "T" "T" "C" "A" "A"
## [181] "T" "T" "G" "A" "T" "G" "T" "A" "G" "A" "T" "G" "A" "A" "C" "A" "C" "G"
## [199] "A" "T" "A" "C" "A" "T" "C" "A" "A" "T" "G" "C" "T" "C" "T" "T" "A" "A"
## [217] "G" "T" "A" "A" "G" "A" "C" "G" "T" "G" "T" "T" "C" "T" "C" "A" "T" "C"
## [235] "T" "G" "A" "T" "A" "T" "A" "T" "A" "G" "C" "A" "T" "T" "T" "G" "C" "C"
## [253] "T" "T" "T" "T" "C" "G" "C" "T" "T" "T" "T" "G" "C" "A" "A" "A" "T" "A"
## [271] "T" "A" "T" "C" "G" "G" "G" "T" "A" "G" "A" "C" "G" "G" "A" "A" "C" "A"
## [289] "C" "A" "C" "C" "A" "G" "A" "C" "G" "T" "A" "C" "T" "C" "A" "A" "A" "T"
## [307] "C" "C" "G" "G" "A" "C" "T" "C" "A" "A" "C" "T" "C" "A" "G" "T" "C" "G"
## [325] "T" "G" "A" "C" "G" "A" "G" "T" "A" "C" "C" "T" "A" "A" "C" "A" "A" "C"
## [343] "G" "T" "T" "A" "A" "C" "A" "A" "A" "C" "C" "T" "C" "T" "T" "T" "A" "G"
## [361] "T" "A" "G" "G" "T" "T" "T" "A" "G" "A" "C" "G" "T" "C" "G" "T" "C" "C"
## [379] "T" "T" "C" "T" "T" "C" "T" "C" "A" "G" "T" "G" "T" "C" "A" "A" "A" "C"
## [397] "G" "A" "C" "A" "A" "A" "G" "A" "A" "G" "A" "C" "A" "G" "A" "G" "A" "C"
## [415] "G" "C" "C" "A" "T" "T" "C" "C" "G" "A" "A" "C" "T" "C" "A" "A" "A" "G"
## [433] "T" "A" "G" "T" "C" "G" "G" "A" "A" "G" "A" "A" "G" "A" "A" "A" "A" "A"
## [451] "C" "A" "G" "G" "A" "A" "A" "A" "A" "T" "C" "C" "G" "A" "G" "A" "C" "A"
## [469] "A" "C" "C" "A" "C" "C" "C" "T" "T" "A" "C" "A" "A" "A" "A" "C" "A" "T"
## [487] "A" "C" "G" "C" "A" "G" "T" "T" "A" "T" "A" "C" "G" "A" "A" "T" "A" "A"
## [505] "G" "T" "C" "G" "T" "T" "T" "T" "A" "C" "T" "G" "A" "A" "C" "T" "A" "G"
## [523] "A" "A" "A" "C" "T" "T" "T" "A" "A" "A" "C" "C" "T" "A" "G" "A" "A" "A"
## [541] "C" "A" "G" "T" "A" "G" "G" "T" "T" "A" "A" "A" "C" "T" "A" "C" "C" "G"
## [559] "T" "G" "G" "A" "C" "A" "C" "A" "T" "C" "C" "A" "G" "T" "T" "G" "G" "T"
## [577] "G" "C" "A" "A" "G" "G" "G" "C" "T" "T" "C" "C" "A" "C" "A" "C" "T" "G"
## [595] "A" "A" "G" "G" "T" "A" "C" "G" "G" "T" "T" "A" "C" "G" "C" "G" "C" "T"
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## [613] "G" "T" "A" "A" "G" "G" "C" "T" "T" "C" "T" "T" "G" "C" "G" "A" "C" "T"
## [631] "T" "C" "G" "C" "G" "A" "C" "C" "C" "C" "C" "G" "T" "T" "T" "A" "A" "C"
## [649] "A" "C" "G" "T" "T" "A" "A" "A" "C" "G" "C" "C" "G" "G" "T" "T" "A" "C"
## [667] "A" "A" "A" "C" "A" "T" "T" "A" "G" "T" "C" "A" "A" "G" "G" "A" "A" "C"
## [685] "A" "G" "A" "C" "T" "A" "A" "T" "C" "A" "A" "G" "G" "A" "C" "C" "A" "G"
## [703] "G" "G" "G" "T" "T" "T" "T" "A" "A" "A" "G" "G" "A" "A" "C" "C" "C" "A"
## [721] "A" "A" "C" "A" "A" "G" "A" "C" "C" "T" "G" "G" "T" "G" "C" "A" "G" "A"
## [739] "C" "G" "G" "C" "T" "T" "T" "C" "G" "A" "A" "C" "A" "C" "A" "A" "T" "G"
## [757] "T" "A" "A" "C" "A" "T" "A" "C" "G" "A" "A" "A" "T" "C" "A" "C" "C" "G"
## [775] "T" "C" "A" "T" "G" "C" "A" "A" "A" "A" "A" "C" "G" "G" "C" "T" "C" "C"
## [793] "G" "A" "A" "G" "A" "A" "T" "C" "T" "T" "C" "G" "G" "A" "G" "T" "C" "G"
## [811] "T" "C" "G" "T" "C" "T" "A" "A" "A" "G" "A" "A" "T" "C" "A" "C" "T" "G"
## [829] "T" "C" "A" "A" "A" "C" "C" "G" "G" "A" "A" "C" "A" "A" "C" "A" "A" "C"
## [847] "A" "A" "C" "C" "G" "G" "A" "A" "A" "T" "G" "G" "T" "C" "T" "G" "T" "A"
## [865] "A" "A" "A" "C" "G" "A" "G" "A" "G" "T" "T" "C" "G" "A" "C" "C" "A" "A"
## [883] "G" "T" "T" "A" "G" "A" "C" "A" "G" "T" "T" "C" "G" "T" "C" "G" "T" "C"
## [901] "G" "T" "T" "T" "C" "G" "T" "T" "C" "T" "C" "G" "T" "C" "G" "T" "A" "G"
## [919] "T" "G" "G" "C" "G" "G" "T" "A" "A" "C" "G" "G" "T" "C" "G" "G" "T" "A"
## [937] "A" "G" "A" "T" "C" "G" "T" "C" "C" "T" "C" "T" "T" "C" "A" "A" "G" "C"
## [955] "A" "A" "A" "T" "G" "A" "C" "G" "A" "C" "G" "G" "A" "C" "C" "T" "C" "A"
## [973] "A" "C" "T" "T" "A" "A" "A" "G" "A" "A" "C" "T" "T" "G" "A" "C" "A" "A"
## [991] "C" "G" "C" "T" "G" "A" "T" "G" "C" "A" "C" "T" "A" "C" "T" "C" "C" "T"
## [1009] "T" "G" "C" "T" "C" "T" "T" "C" "T" "C" "C" "G" "A" "A" "C" "T" "G" "A"
## [1027] "C" "G" "G" "C" "G" "G" "A" "G" "A" "C" "G" "A" "G" "G" "G" "A" "A" "G"
## [1045] "A" "C" "G" "C" "A" "T" "C" "T" "T" "C" "G" "G" "A" "A" "A" "A" "C" "C"
## [1063] "G" "T" "T" "A" "C" "A" "A" "C" "A" "A" "G" "G" "A" "A" "C" "T" "C" "C"
## [1081] "T" "T" "C" "A" "A" "C" "A" "T" "C" "G" "T" "G" "C" "T" "A" "A" "C" "G"
## [1099] "T" "C" "G" "T" "A" "A" "C" "A" "A" "T" "C" "G" "T" "C" "C" "T" "A" "A"
## [1117] "C" "G" "C" "C" "C" "A" "C" "G" "G" "T" "T" "A" "C" "A" "C" "T" "A" "G"
## [1135] "A" "A" "A" "A" "C" "C" "A" "C" "A" "T" "A" "A" "G" "T" "T" "C" "C" "G"
## [1153] "A" "G" "G" "G" "A" "G" "T" "C" "A" "A" "C" "G" "T" "T" "G" "G" "G" "T"
## [1171] "A" "T" "A" "C" "T" "A" "C" "G" "G" "C" "A" "G" "A" "A" "A" "C" "A" "A"
## [1189] "T" "C" "G" "T" "G" "G" "T" "A" "T" "C" "C" "C" "T" "T" "C" "A" "G" "G"
## [1207] "T" "C" "G" "A" "A" "G" "A" "C" "C" "G" "G" "G" "T" "C" "A" "A" "G" "G"
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## [1261] "G" "T" "A" "A" "A" "A" "T" "G" "G" "C" "A" "G" "T" "G" "G" "T" "G" "G"
## [1279] "T" "G" "C" "T" "T" "A" "A" "G" "C" "A" "G" "A" "C" "C" "A" "T" "C" "G"
## [1297] "A" "G" "A" "A" "G" "C" "C" "A" "T" "C" "A" "T" "C" "G" "G" "T" "T" "A"
## [1315] "A" "A" "C" "C" "A" "G" "T" "A" "G" "A" "C" "C" "T" "G" "A" "C" "G" "A"
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## [1351] "C" "G" "G" "A" "A" "C" "A" "G" "G" "A" "G" "C" "T" "C" "C" "C" "T" "T"
## [1369] "A" "A" "A" "T" "T" "C" "C" "A" "G" "A" "A" "G" "G" "A" "A" "C" "G" "G"
## [1387] "T" "A" "C" "A" "A" "C" "T" "C" "A" "C" "T" "C" "T" "C" "G" "C" "C" "A"
## [1405] "C" "T" "T" "G" "G" "T" "T" "C" "T" "G" "C" "G" "T" "C" "A" "T" "A" "A"
## [1423] "T" "A" "A" "C" "C" "C" "A" "T" "T" "T" "G" "G" "A" "A" "C" "C" "C" "C"
## [1441] "G" "G" "C" "T" "G" "C" "A" "A" "C" "A" "A" "A" "A" "C" "T" "A" "G" "C"
## [1459] "G" "C" "G" "G" "G" "G" "T" "G" "G" "T" "A" "A" "G" "A" "C" "C" "A" "A"
## [1477] "T" "G" "A" "C" "G" "G" "T" "C" "A" "A" "C" "T" "T" "A" "G" "A" "C" "T"
## [1495] "C" "C" "C" "A" "G" "G" "T" "G" "G" "T" "T" "T" "G" "C" "A" "T" "T" "A"
## [1513] "C" "G" "C" "C" "T" "C" "A" "C" "G" "T" "A" "A" "A" "G" "C" "G" "A" "C"
## [1531] "T" "A" "A" "A" "A" "C" "C" "C" "C" "A" "G" "G" "T" "A" "A" "T" "A" "G"
## [1549] "T" "C" "T" "G" "T" "A" "A" "A" "T" "T" "C" "A" "A" "A" "C" "A" "A" "G"
## [1567] "C" "A" "A" "A" "T" "C" "T" "A" "C" "T" "T" "T" "A" "G" "A" "T" "T" "T"

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## [1585] "T" "G" "T" "T" "G" "T" "G" "C" "T" "T" "G" "C" "A" "G" "T" "A" "C" "T"
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## [1783] "C" "G" "A" "G" "G" "A" "T" "G" "A" "G" "A" "T" "T" "A" "T" "A" "T" "G"
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## [1855] "A" "C" "T" "C" "A" "T" "G" "T" "A" "C" "T" "G" "A" "C" "A" "T" "T" "T"
## [1873] "G" "A" "T" "G" "T" "A" "A" "G" "A" "A" "C" "C" "A" "C" "T" "T" "T" "A"
## [1891] "C" "G" "T" "C" "G" "A" "T" "G" "T" "C" "A" "A" "C" "A" "C" "T" "A" "C"
## [1909] "T" "A" "A" "G" "G" "A" "T" "T" "C" "T" "T" "T" "T" "G" "T" "T" "C" "T"
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## [1981] "C" "T" "C" "T" "T" "G" "G" "T" "T" "T" "T" "C" "T" "A" "T" "T" "A" "T"
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## [2287] "G" "A" "T" "C" "T" "C" "C" "T" "A" "C" "T" "T" "T" "A" "C" "C" "A" "C"
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## [2377] "T" "C" "A" "C" "T" "A" "T" "T" "T" "C" "G" "A" "G" "T" "G" "T" "T" "C"
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## [2431] "A" "G" "T" "A" "C" "A" "A" "G" "C" "A" "A" "A" "T" "T" "A" "G" "T" "T"
## [2449] "A" "G" "A" "G" "G" "T" "A" "A" "C" "C" "A" "A" "C" "G" "A" "G" "A" "A"
## [2467] "G" "T" "A" "G" "A" "T" "T" "A" "A" "C" "T" "C" "T" "T" "A" "T" "A" "A"
## [2485] "A" "T" "A" "A" "G" "A" "G" "T" "C" "A" "A" "T" "C" "A" "C" "T" "G" "A"
## [2503] "A" "T" "C" "T" "A" "T" "T" "T" "A" "A" "A" "A" "A" "T" "T" "A" "A" "T"
## [2521] "A" "C" "T" "C" "C" "A" "A" "A" "T" "A" "C" "T" "A" "C" "A" "T" "T" "A"
## [2539] "G" "T" "T" "C" "T" "A" "A" "G" "G" "T" "T" "T" "A" "C" "C" "T" "T" "T"

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## [2557] "G" "A" "A" "A" "T" "T" "T" "T" "C" "A" "G" "G" "C" "G" "T" "A" "T" "T"
## [2575] "A" "T" "T" "A" "A" "T" "C" "A" "T" "T" "A" "T" "A" "G" "A" "G" "A" "C"
## [2593] "G" "A" "T" "A" "T" "C" "A" "T" "T" "G" "G" "A" "C" "T" "T" "T" "C" "A"
## [2611] "G" "T" "T" "G" "C" "T" "C" "T" "A" "C" "T" "T" "T" "G" "T" "A" "G" "A"
## [2629] "C" "A" "A" "C" "A" "G" "T" "G" "A" "A" "T" "G" "A" "C" "A" "T" "G" "T"
## [2647] "T" "C" "G" "T" "T" "T" "C" "G" "T" "T" "A" "T" "A" "A" "C" "A" "G" "T"
## [2665] "G" "A" "C" "G" "A" "T" "G" "A" "C" "C" "T" "T" "A" "C" "C" "A" "G" "A"
## [2683] "C" "A" "C" "A" "A" "A" "T" "T" "A" "A" "A" "T" "A" "T" "C" "A" "A" "C"
## [2701] "G" "G" "T" "T" "A" "G" "G" "A" "C" "A" "T" "C" "G" "C" "T" "G" "A" "C"
## [2719] "A" "T" "A" "C" "G" "T" "C" "G" "T" "T" "T" "T" "G" "G" "A" "C" "T" "C"
## [2737] "A" "G" "T" "G" "G" "A" "C" "G" "A" "T" "G" "T" "G" "C" "G" "A" "C" "G"
## [2755] "C" "T" "T" "C" "G" "A" "G" "G" "G" "T" "T" "A" "A" "A" "C" "A" "T" "T"
## [2773] "A" "T" "T" "C" "T" "T" "T" "C" "G" "C" "A" "A" "G" "C" "A" "C" "T" "A"
## [2791] "C" "A" "T" "C" "G" "T" "T" "G" "T" "C" "A" "C" "T" "A" "A" "A" "G" "A"
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## [2827] "A" "G" "T" "G" "T" "C" "G" "C" "A" "G" "G" "A" "T" "C" "T" "A" "C" "C"
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## [2863] "A" "C" "A" "G" "G" "T" "G" "C" "T" "T" "C" "C" "T" "A" "G" "T" "G" "T"
## [2881] "C" "G" "A" "G" "G" "C" "T" "A" "A" "T" "G" "C" "T" "C" "A" "A" "G" "T"
## [2899] "G" "A" "A" "A" "G" "A" "T" "C" "T" "T" "C" "G" "C" "C" "A" "G" "A" "C"
## [2917] "C" "A" "G" "T" "C" "T" "T" "A" "T" "C" "A" "C" "G" "G" "T" "A" "C" "C"
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## [2971] "T" "T" "A" "C" "T" "G" "G" "T" "G" "T" "A" "C" "C" "T" "T" "G" "C" "G"
## [2989] "C" "A" "T" "G" "C" "G" "C" "G" "T" "T" "T" "G" "T" "C" "A" "G" "A" "C"
## [3007] "T" "T" "T" "C" "T" "T" "C" "G" "T" "T" "A" "C" "T" "T" "C" "A" "T" "C"
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## [3403] "C" "T" "C" "T" "C" "A" "T" "T" "T" "G" "C" "A" "T" "T" "T" "T" "T" "C"
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## [3439] "G" "C" "A" "A" "T" "T" "G" "T" "T" "A" "T" "A" "A" "C" "G" "T" "C" "G"
## [3457] "T" "C" "A" "T" "G" "C" "G" "T" "G" "T" "G" "T" "T" "A" "G" "C" "T" "T"
## [3475] "C" "G" "C" "G" "T" "C" "A" "T" "T" "C" "C" "T" "A" "C" "C" "G" "A" "T"
## [3493] "C" "A" "C" "A" "T" "T" "G" "A" "T" "C" "G" "T" "T" "C" "T" "T" "A" "T"
## [3511] "G" "G" "T" "G" "C" "T" "T" "T" "C" "G" "T" "T" "C" "T" "T" "T" "T" "T"

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## [3529] "C" "T" "T" "C" "A" "T" "G" "C" "G" "A" "T" "A" "A" "T" "T" "G" "A" "T"
## [3547] "A" "A" "T" "T" "G" "C" "A" "T" "G" "G" "A" "T" "A" "G" "A" "G" "A" "A"
## [3565] "G" "G" "C" "T" "T" "T" "G" "C" "T" "T" "A" "C" "T" "C" "A" "T" "G" "T"
## [3583] "A" "T" "T" "C" "A" "A" "G" "C" "A" "T" "G" "A" "G" "T" "A" "G" "T" "C"
## [3601] "G" "A" "A" "C" "A" "C" "G" "A" "A" "T" "G" "T" "T" "T" "C" "C" "G" "T"
## [3619] "G" "C" "G" "A" "T" "C" "A" "T" "C" "A" "G" "C" "A" "G" "C" "A" "G" "C"
## [3637] "C" "A" "A" "G" "T" "A" "G" "T" "A" "T" "T" "T" "A" "A" "C" "C" "A" "A"
## [3655] "G" "G" "T" "A" "A" "T" "G" "A" "C" "C" "T" "A" "A" "T" "T" "G" "T" "T"
## [3673] "G" "A" "G" "G" "C" "C" "T" "A" "C" "T" "T" "G" "G" "C" "A" "G" "C" "T"
## [3691] "A" "A" "C" "A" "C" "A" "C" "T" "T" "A" "A" "A" "C" "C" "T" "G" "T" "A"
## [3709] "C" "A" "A" "G" "A" "A" "G" "T" "C" "C" "G" "A" "G" "T" "A" "G" "T" "T"
## [3727] "G" "T" "T" "A" "A" "A" "A" "T" "A" "A" "C" "A" "T" "C" "T" "A" "C" "T"
## [3745] "T" "C" "T" "T" "C" "C" "A" "T" "T" "G" "T" "A" "C" "A" "A" "G" "T" "T"
## [3763] "G" "T" "G" "G" "T" "C" "A" "C" "A" "G" "A" "C" "A" "T" "G" "A" "G" "T"
## [3781] "T" "A" "A" "C" "T" "C" "A" "A" "C" "T" "C" "A" "T" "G" "T" "C" "G" "A"
## [3799] "C" "C" "A" "T" "T" "A" "T" "C" "A" "G" "A" "C" "T" "T" "C" "A" "C" "T"
## [3817] "T" "C" "A" "T" "T" "G" "A" "C" "A" "C" "A" "T" "T" "A" "T" "G" "T" "T"
## [3835] "G" "T" "G" "T" "C" "A" "G" "A" "A" "A" "A" "T" "G" "A" "G" "G" "T" "C"
## [3853] "T" "A" "A" "G" "G" "G" "T" "A" "A" "A" "A" "A" "G" "T" "C" "A" "T" "A"
## [3871] "T" "T" "G" "G" "T" "G" "G" "T" "T" "A" "G" "A" "C" "C" "A" "T" "C" "A"
## [3889] "G" "T" "A" "C" "A" "A" "G" "T" "C" "T" "T" "T" "A" "T" "C" "C" "T" "G"
## [3907] "A" "A" "C" "A" "A" "C" "A" "C" "G" "G" "T" "A" "G" "T" "G" "G" "A" "C"
## [3925] "T" "T" "C" "A" "T" "T" "A" "C" "T" "G" "T" "T" "A" "A" "C" "T" "T" "C"
## [3943] "T" "T" "C" "A" "A" "T" "G" "T" "G" "A" "T" "A" "A" "C" "A" "T" "T" "C"
## [3961] "C" "A" "T" "A" "T" "G" "T" "T" "A" "T" "C" "A" "G" "C" "A" "T" "T" "G"
## [3979] "T" "T" "A" "A" "T" "C" "A" "T" "A" "C" "G" "G" "T" "C" "G" "T" "T" "T"
## [3997] "C" "T" "T" "T" "T" "A" "T" "C" "A" "A" "C" "C" "G" "T" "A" "G" "T" "A"
## [4015] "T" "T" "T" "C" "A" "T" "T" "A" "C" "C" "C" "A" "A" "A" "A" "A" "C" "C"
## [4033] "T" "T" "G" "C" "C" "G" "T" "A" "A" "A" "G" "G" "T" "C" "G" "T" "T" "T"
## [4051] "C" "G" "G" "T" "T" "T" "C" "G" "G" "A" "G" "T" "A" "A" "T" "A" "A" "T"
## [4069] "A" "A" "G" "A" "A" "T" "G" "T" "T" "T" "C" "A" "A" "A" "T" "A" "T" "G"
## [4087] "A" "G" "A" "C" "G" "T" "T" "C" "T" "T" "C" "A" "T" "C" "T" "G" "A" "T"
## [4105] "T" "T" "C" "G" "T" "A" "T" "T" "T" "C" "T" "A" "T" "C" "T" "C" "T" "T"
## [4123] "T" "T" "C" "C" "C" "C" "G" "A" "A" "G" "T" "T" "C" "C" "G" "G" "T" "C"
## [4141] "G" "T" "C" "G" "T" "T" "G" "C" "T" "C" "G" "T" "T" "T" "T" "C" "C" "A"
## [4159] "C" "A" "C" "T" "C" "A" "T" "T" "T" "G" "A" "C" "A" "A" "T" "G" "T" "T"
## [4177] "T" "G" "T" "T" "G" "T" "T" "G" "T" "C" "G" "T" "T" "C" "A" "A" "C" "G"
## [4195] "T" "T" "T" "G" "T" "T" "T" "C" "A" "C" "T" "T" "G" "T" "G" "G" "G" "A"
## [4213] "A" "C" "C" "T" "C" "T" "C" "A" "C" "G" "A" "T" "C" "A" "A" "C" "G" "G"
## [4231] "T" "A" "G" "A" "G" "A" "A" "A" "A" "A" "C" "T" "C" "T" "C" "A" "A" "T"
## [4249] "A" "C" "T" "A" "A" "A" "A" "C" "C" "T" "T" "C" "G" "C" "G" "A" "G" "A"
## [4267] "C" "T" "T" "T" "T" "T" "G" "T" "C" "G" "T" "T" "C" "T" "T" "C" "A" "C"
## [4285] "G" "T" "T" "G" "C" "G" "G" "T" "T" "G" "T" "T" "A" "T" "T" "C" "G" "G"
## [4303] "T" "A" "G" "G" "C" "T" "T" "T" "C" "C" "C" "T" "C" "A" "C" "T" "C" "C"
## [4321] "G" "A" "A" "C" "A" "T" "A" "G" "C" "C" "A" "T" "A" "G" "C" "A" "A" "C"
## [4339] "G" "T" "C" "A" "T" "C" "G" "C" "G" "C" "T" "T" "G" "T" "T" "T" "T" "A"
## [4357] "G" "A" "C" "T" "T" "C" "C" "T" "C" "A" "T" "C" "G" "T" "A" "G" "G" "A"
## [4375] "A" "C" "T" "A" "A" "A" "G" "T" "G" "G" "A" "A" "C" "G" "A" "A" "G" "T"
## [4393] "T" "T" "C" "A" "A" "T" "G" "T" "C" "A" "A" "G" "G" "T" "T" "A" "A" "C"
## [4411] "A" "C" "T" "T" "C" "T" "A" "A" "G" "A" "G" "T" "A" "T" "T" "T" "G" "T"
## [4429] "T" "T" "A" "G" "G" "T" "A" "T" "T" "C" "A" "A" "G" "C" "A" "A" "A" "T"
## [4447] "A" "C" "A" "C" "A" "T" "T" "A" "C" "A" "T" "T" "A" "A" "A" "C" "T" "G"
## [4465] "A" "G" "G" "A" "A" "A" "C" "T" "C" "G" "T" "G" "A" "C" "C" "G" "A" "G"
## [4483] "T" "C" "T" "C" "A" "G" "C" "A" "G" "A" "A" "G" "T" "A" "G" "T" "T" "T"

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## [4501] "A" "A" "A" "C" "G" "T" "C" "G" "T" "C" "C" "T" "A" "G" "G" "T" "G" "T"
## [4519] "T" "C" "T" "T" "G" "T" "T" "G" "T" "C" "G" "G" "G" "A" "A" "C" "T" "C"
## [4537] "T" "G" "T" "T" "G" "A" "T" "G" "T" "C" "G" "T" "T" "G" "A" "C" "C" "A"
## [4555] "G" "T" "A" "T" "G" "T" "C" "G" "T" "T" "T" "C" "G" "T" "A" "T" "T" "A"
## [4573] "A" "C" "A" "G" "T" "G" "G" "T" "A" "A" "T" "G" "A" "T" "A" "C" "C" "G"
## [4591] "T" "T" "A" "G" "T" "T" "C" "G" "G" "T" "C" "G" "A" "T" "A" "T" "T" "T"
## [4609] "T" "G" "G" "A" "T" "C" "G" "G" "T" "T" "T" "A" "C" "A" "T" "G" "G" "T"
## [4627] "A" "C" "C" "G" "G" "T" "A" "A" "A" "A" "T" "A" "T" "A" "T" "G" "A" "C"
## [4645] "G" "A" "G" "T" "A" "T" "G" "A" "A" "A" "G" "G" "T" "T" "C" "A" "A" "G"
## [4663] "A" "A" "C" "C" "T" "C" "T" "A" "G" "C" "T" "A" "C" "T" "C" "T" "C" "T"
## [4681] "A" "A" "G" "T" "A" "A" "A" "T" "T" "T" "A" "A" "G" "A" "A" "C" "C" "G"
## [4699] "T" "T" "G" "G" "A" "G" "T" "A" "A" "C" "T" "C" "C" "G" "C" "C" "A" "G"
## [4717] "T" "T" "A" "A" "A" "G" "A" "A" "A" "A" "A" "C" "T" "T" "A" "C" "A" "A"
## [4735] "A" "T" "G" "T" "T" "G" "A" "C" "T" "T" "C" "G" "T" "A" "A" "T" "T" "A"
## [4753] "C" "G" "G" "T" "C" "T" "C" "T" "A" "C" "A" "G" "T" "G" "G" "A" "T" "T"
## [4771] "T" "A" "G" "T" "T" "G" "T" "A" "G" "A" "C" "C" "A" "C" "T" "A" "C" "A"
## [4789] "T" "A" "C" "T" "A" "A" "G" "A" "A" "T" "T" "T" "T" "A" "T" "A" "A" "A"
## [4807] "T" "A" "G" "A" "T" "T" "G" "A" "G" "G" "A" "G" "G" "A" "A" "C" "T" "T"
## [4825] "A" "C" "T" "T" "A" "G" "A" "T" "T" "A" "A" "G" "T" "C" "C" "A" "A" "C"
## [4843] "G" "T" "T" "T" "C" "C" "T" "A" "G" "T" "A" "T" "T" "T" "G" "A" "C" "A"
## [4861] "C" "A" "A" "C" "A" "A" "C" "T" "G" "T" "T" "A" "A" "G" "G" "A" "T" "A"
## [4879] "A" "T" "G" "T" "T" "G" "T" "A" "G" "T" "G" "T" "C" "A" "A" "T" "G" "G"
## [4897] "T" "C" "T" "G" "T" "G" "T" "T" "T" "A" "C" "A" "C" "A" "A" "C" "A" "G"
## [4915] "A" "C" "A" "T" "C" "A" "T" "T" "A" "C" "T" "A" "A" "A" "C" "A" "C" "C"
## [4933] "A" "A" "G" "T" "A" "T" "T" "T" "T" "T" "A" "A" "G" "G" "A" "A" "A" "C"
## [4951] "A" "C" "A" "A" "T" "G" "T" "T" "T" "G" "G" "T" "C" "A" "C" "A" "C" "A"
## [4969] "C" "G" "G" "T" "A" "A" "A" "C" "T" "T" "T" "G" "T" "T" "T" "C" "T" "G"
## [4987] "T" "G" "G" "A" "A" "G" "T" "G" "C" "T" "C" "C" "T" "T" "T" "C" "A" "C"
## [5005] "A" "C" "G" "A" "A" "A" "A" "G" "G" "T" "A" "G" "T" "A" "C" "T" "G" "T"
## [5023] "T" "T" "A" "C" "C" "G" "T" "C" "C" "T" "C" "G" "T" "C" "A" "A" "C" "A"
## [5041] "C" "T" "T" "C" "A" "A" "G" "A" "A" "A" "A" "G" "A" "A" "C" "A" "C" "G"
## [5059] "T" "C" "C" "C" "T" "G" "T" "A" "T" "T" "C" "A" "G" "T" "G" "T" "A" "C"
## [5077] "G" "T" "T" "C" "T" "T" "C" "T" "G" "A" "T" "G" "T" "G" "G" "T" "A" "C"
## [5095] "T" "C" "C" "A" "C" "G" "A" "C" "T" "G" "A" "C" "T" "C" "C" "C" "T" "T"
## [5113] "C" "C" "T" "G" "T" "A" "T" "T" "C" "T" "A" "C" "T" "A" "T" "C" "G" "G"
## [5131] "G" "A" "A" "A" "G" "G" "T" "G" "T" "T" "T" "T" "A" "G" "T" "T" "G"
## [5149] "A" "G" "A" "A" "A" "A" "A" "C" "T" "A" "A" "C" "A" "G" "G" "T" "T" "C"
## [5167] "A" "T" "G" "T" "G" "T" "G" "A" "G" "A" "C" "T" "G" "T" "A" "A" "A" "A"
## [5185] "T" "C" "A" "T" "C" "G" "T" "C" "G" "T" "T" "C" "T" "A" "A" "T" "C" "G"
## [5203] "T" "C" "T" "T" "C" "G" "A" "G" "A" "C" "T" "A" "A" "A" "G" "A" "C" "G"
## [5221] "T" "C" "G" "A" "G" "A" "T" "T" "A" "A" "T" "T" "A" "A" "C" "A" "A" "C"
## [5239] "T" "C" "A" "G" "T" "G" "T" "A" "T" "A" "C" "A" "G" "A" "C" "G" "T" "T"
## [5257] "T" "G" "A" "A" "A" "C" "T" "T" "C" "A" "G" "A" "C" "G" "G" "A" "C" "A"
## [5275] "C" "T" "A" "G" "T" "T" "G" "G" "A" "T" "A" "G" "T" "T" "A" "A" "A" "C"
## [5293] "G" "T" "G" "A" "A" "G" "T" "C" "G" "G" "A" "G" "T" "T" "G" "A" "A" "A"
## [5311] "C" "A" "G" "T" "T" "C" "T" "G" "C" "A" "C" "T" "T" "T" "T" "C" "T" "A"
## [5329] "T" "A" "G" "T" "A" "A" "A" "T" "T" "T" "T" "G" "T" "G" "A" "A" "C" "T"
## [5347] "T" "T" "A" "A" "C" "G" "T" "G" "G" "T" "T" "T" "A" "A" "A" "C" "C" "T"
## [5365] "C" "G" "A" "T" "T" "C" "A" "A" "C" "A" "A" "A" "T" "T" "G" "T" "T" "C"
## [5383] "G" "C" "A" "C" "A" "A" "A" "T" "T" "T" "C" "G" "A" "A" "C" "A" "C" "G"
## [5401] "T" "A" "A" "T" "A" "C" "C" "A" "A" "C" "T" "G" "G" "T" "G" "T" "A" "G"
## [5419] "A" "A" "C" "T" "T" "C" "A" "A" "A" "A" "G" "G" "T" "T" "C" "A" "C" "G"
## [5437] "T" "G" "A" "A" "C" "G" "A" "C" "A" "C" "C" "T" "T" "C" "T" "T" "T" "C"
## [5455] "A" "C" "T" "C" "A" "G" "A" "A" "C" "T" "T" "A" "A" "A" "A" "C" "G" "G"

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## [5473] "T" "T" "A" "T" "C" "G" "T" "G" "A" "T" "A" "A" "T" "T" "T" "A" "A" "C"
## [5491] "C" "A" "A" "C" "C" "G" "T" "T" "A" "G" "T" "T" "A" "A" "A" "A" "A" "C"
## [5509] "C" "A" "A" "G" "A" "G" "T" "A" "T" "C" "T" "C" "T" "T" "G" "T" "A" "A"
## [5527] "G" "A" "C" "A" "C" "A" "T" "T" "G" "A" "G" "G" "T" "T" "A" "T" "G" "G"
## [5545] "T" "A" "A" "T" "T" "T" "G" "G" "A" "T" "A" "T" "T" "C" "G" "G" "T" "A"
## [5563] "A" "A" "C" "G" "T" "A" "T" "C" "G" "T" "T" "T" "A" "C" "C" "A" "T" "A"
## [5581] "A" "A" "C" "A" "T" "T" "A" "C" "G" "T" "C" "G" "T" "G" "G" "A" "C" "G"
## [5599] "T" "G" "G" "T" "T" "T" "C" "C" "A" "G" "G" "T" "T" "G" "G" "T" "C" "T"
## [5617] "T" "C" "A" "C" "T" "A" "A" "C" "A" "T" "G" "G" "G" "C" "G" "A" "T" "T"
## [5635] "G" "T" "C" "A" "C" "G" "T" "C" "T" "T" "C" "A" "C" "A" "T" "A" "A" "C"
## [5653] "T" "C" "G" "T" "T" "A" "G" "T" "A" "A" "A" "G" "T" "A" "G" "A" "C" "A"
## [5671] "C" "T" "C" "G" "T" "T" "T" "C" "C" "A" "C" "C" "G" "T" "T" "T" "T" "G"
## [5689] "T" "C" "A" "T" "T" "C" "C" "G" "G" "A" "A" "A" "T" "T" "T" "G" "A" "A"
## [5707] "A" "A" "C" "A" "C" "G" "T" "G" "T" "T" "T" "A" "C" "T" "C" "C" "A" "G"
## [5725] "A" "G" "A" "T" "C" "G" "T" "C" "G" "T" "T" "A" "T" "A" "G" "T" "G" "G"
## [5743] "T" "T" "C" "C" "G" "T" "T" "A" "G" "T" "G" "G" "T" "A" "T" "A" "A" "C"
## [5761] "A" "A" "A" "C" "T" "A" "C" "T" "T" "C" "G" "G" "T" "C" "G" "T" "A" "G"
## [5779] "A" "C" "G" "T" "T" "C" "A" "C" "A" "G" "T" "G" "A" "A" "A" "C" "A" "A"
## [5797] "C" "T" "T" "T" "T" "C" "A" "T" "C" "T" "A" "G" "A" "A" "G" "T" "T" "A"
## [5815] "T" "T" "T" "A" "C" "T" "G" "G" "A" "G" "A" "A" "C" "G" "A" "A" "C" "C"
## [5833] "A" "A" "A" "A" "C" "T" "A" "C" "C" "T" "A" "G" "A" "C" "C" "A" "T" "T"
## [5851] "A" "T" "A" "A" "A" "C" "A" "C" "T" "T" "T" "T" "T" "A" "A" "T" "T" "T"
## [5869] "T" "G" "G" "T" "G" "G" "T" "T" "T" "T" "A" "T" "A" "A" "A" "T" "T" "A"
## [5887] "A" "C" "C" "A" "C" "C" "A" "C" "A" "A" "A" "A" "C" "A" "T" "T" "T" "A"
## [5905] "A" "A" "C" "A" "A" "A" "C" "T" "G" "A" "A" "C" "A" "C" "G" "T" "T" "T"
## [5923] "T" "T" "G" "A" "A" "G" "A" "A" "C" "C" "C" "A" "C" "A" "A" "A" "A" "A"
## [5941] "C" "A" "G" "A" "A" "C" "A" "A" "G" "T" "T" "G" "T" "C" "G" "A" "T" "A"
## [5959] "A" "G" "G" "T" "C" "A" "A" "T" "T" "T" "C" "G" "T" "G" "C" "A" "A" "A"
## [5977] "A" "T" "T" "A" "A" "C" "A" "C" "A" "T" "G" "T" "T" "T" "T" "T" "G" "A"
## [5995] "C" "G" "G" "T" "A" "T" "A" "A" "C" "G" "T" "T" "G" "T" "T" "T" "T" "C"
## [6013] "T" "A" "A" "C" "G" "A" "C" "G" "T" "A" "A" "G" "T" "C" "A" "A" "C" "T"
## [6031] "T" "A" "G" "T" "G" "G" "T" "G" "T" "T" "T" "A" "C" "A" "T" "G" "T" "A"
## [6049] "A" "C" "A" "T" "G" "T" "T" "A" "G" "A" "T" "G" "A" "C" "T" "A" "C" "A"
## [6067] "G" "A" "A" "C" "C" "A" "G" "T" "A" "T" "C" "T" "G" "T" "G" "A" "C" "C"
## [6085] "A" "T" "C" "T" "T" "A" "A" "A" "G" "A" "C" "A" "C" "C" "A" "T" "T" "G"
## [6103] "T" "G" "A" "T" "T" "A" "T" "C" "A" "T" "T" "T" "T" "A" "A" "A" "C" "A"
## [6121] "C" "C" "C" "A" "T" "A" "C" "C" "G" "T" "T" "A" "T" "C" "T" "C" "A" "A"
## [6139] "T" "A" "A" "T" "C" "T" "C" "A" "T" "T" "C" "G" "T" "T" "G" "A" "C" "T"
## [6157] "T" "A" "A" "A" "A" "G" "A" "C" "G" "T" "G" "G" "T" "T" "C" "A" "C" "T"
## [6175] "G" "T" "A" "T" "C" "A" "C" "A" "T" "C" "C" "G" "T" "T" "A" "C" "T" "A"
## [6193] "C" "C" "T" "A" "A" "C" "T" "G" "A" "T" "C" "G" "A" "T" "G" "T" "G" "A"
## [6211] "T" "G" "C" "A" "C" "G" "G" "G" "C" "G" "G" "C" "T" "A" "C" "T" "C" "T"
## [6229] "G" "A" "A" "T" "C" "A" "G" "A" "C" "T" "C" "A" "G" "A" "C" "T" "A" "T"
## [6247] "T" "G" "A" "T" "C" "G" "C" "G" "T" "A" "T" "A" "T" "G" "G" "A" "C" "G"
## [6265] "T" "G" "G" "T" "T" "A" "C" "C" "C" "A" "T" "A" "C" "A" "G" "T" "G" "T"
## [6283] "G" "A" "G" "T" "A" "T" "A" "C" "T" "C" "A" "A" "C" "A" "A" "C" "T" "G"
## [6301] "T" "A" "T" "A" "A" "G" "T" "C" "G" "G" "G" "G" "A" "T" "A" "A" "T" "T"
## [6319] "T" "G" "T" "C" "G" "G" "A" "C" "G" "T" "G" "C" "A" "C" "A" "A" "A" "C"
## [6337] "T" "T" "T" "T" "T" "G" "T" "A" "A" "T" "C" "T" "T" "G" "G" "A" "C" "A"
## [6355] "T" "C" "T" "T" "A" "T" "T" "T" "G" "T" "G" "C" "G" "G" "T" "T" "C" "A"
## [6373] "T" "C" "C" "T" "C" "A" "T" "T" "C" "A" "A" "C" "T" "A" "G" "A" "C" "G"
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## [6409] "A" "A" "G" "A" "C" "A" "C" "G" "T" "C" "A" "A" "T" "T" "G" "T" "G" "G"
## [6427] "G" "A" "C" "T" "A" "T" "T" "T" "C" "T" "T" "G" "T" "C" "G" "T" "T" "G"

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## [6481] "C" "T" "G" "T" "G" "G" "T" "G" "G" "T" "T" "T" "C" "T" "T" "G" "T"
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## [6589] "T" "T" "T" "G" "A" "A" "A" "A" "A" "C" "A" "A" "T" "C" "T" "G" "A" "G"
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## [6661] "A" "A" "A" "T" "T" "G" "G" "T" "T" "T" "A" "A" "T" "C" "A" "T" "C" "T"
## [6679] "G" "A" "A" "A" "A" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N"
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## [6967] "T" "T" "G" "C" "G" "T" "C" "G" "G" "A" "C" "A" "T" "T" "T" "T" "A" "G"
## [6985] "T" "A" "G" "A" "C" "C" "A" "T" "T" "A" "A" "A" "T" "A" "T" "T" "A" "A"
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## [7093] "C" "G" "T" "C" "T" "C" "T" "A" "G" "T" "A" "A" "A" "T" "T" "A" "A" "A"
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## [7201] "G" "G" "A" "C" "A" "A" "G" "G" "T" "T" "C" "G" "T" "A" "T" "T" "T" "G"
## [7219] "T" "C" "T" "A" "C" "G" "T" "T" "T" "A" "G" "A" "C" "C" "A" "C" "C" "G"
## [7237] "C" "A" "A" "T" "T" "T" "T" "T" "G" "A" "A" "G" "T" "A" "G" "T" "T" "T"
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## [7273] "T" "A" "A" "T" "C" "C" "T" "T" "T" "A" "G" "A" "T" "T" "G" "T" "T" "A"
## [7291] "T" "C" "T" "A" "A" "G" "A" "C" "A" "A" "C" "C" "A" "A" "C" "C" "T" "G"
## [7309] "A" "G" "A" "T" "T" "T" "C" "A" "A" "T" "C" "T" "T" "C" "A" "A" "A" "C"
## [7327] "T" "A" "T" "C" "T" "A" "A" "G" "G" "A" "A" "A" "A" "A" "G" "A" "T" "G"
## [7345] "T" "C" "A" "C" "T" "T" "C" "C" "T" "A" "A" "A" "G" "T" "T" "G" "C" "A"
## [7363] "T" "G" "T" "G" "A" "A" "A" "C" "A" "A" "A" "G" "A" "C" "T" "C" "T" "C"
## [7381] "T" "C" "C" "C" "A" "G" "T" "T" "C" "A" "C" "G" "T" "G" "T" "C" "A" "G"
## [7399] "A" "T" "G" "T" "C" "G" "T" "A" "G" "A" "C" "A" "T" "T" "A" "C" "C" "A"

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## [7417] "A" "G" "G" "T" "A" "A" "A" "A" "G" "T" "A" "A" "T" "A" "T" "A" "A" "A"
## [7435] "A" "T" "T" "A" "T" "C" "T" "T" "T" "T" "C" "A" "G" "G" "A" "T" "C" "C"
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## [7561] "C" "T" "A" "C" "A" "A" "T" "T" "A" "T" "G" "G" "A" "T" "A" "A" "C" "C"
## [7579] "G" "T" "T" "T" "A" "G" "A" "T" "G" "G" "T" "T" "A" "C" "C" "A" "A" "G"
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## [7615] "T" "C" "C" "C" "T" "C" "T" "A" "G" "T" "G" "C" "G" "T" "G" "A" "T" "A"
## [7633] "T" "T" "A" "T" "C" "C" "G" "C" "A" "C" "A" "C" "G" "A" "A" "T" "C" "T"
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## [7669] "T" "A" "G" "T" "T" "A" "T" "A" "A" "G" "A" "N" "N" "N" "N" "N" "N"
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## [7759] "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N"
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## [7795] "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "N" "A"
## [7813] "A" "A" "A" "C" "A" "A" "C" "A" "A" "A" "A" "A" "C" "A" "C" "C" "A" "G"
## [7831] "G" "T" "T" "T" "T" "T" "A" "C" "C" "T" "A" "G" "T" "A" "A" "T" "G" "T"
## [7849] "T" "T" "T" "A" "A" "C" "T" "T" "T" "A" "A" "G" "T" "G" "T" "C" "T" "G"
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## [7885] "T" "C" "G" "C" "A" "A" "T" "A" "A" "T" "T" "G" "T" "T" "A" "T" "T" "C"
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## [7939] "T" "T" "A" "G" "G" "T" "C" "G" "G" "A" "G" "A" "A" "T" "A" "A" "T" "A"
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## [7993] "T" "A" "A" "T" "T" "T" "A" "C" "C" "A" "T" "C" "C" "T" "G" "T" "C" "C"
## [8011] "C" "A" "A" "T" "A" "G" "T" "T" "T" "G" "G" "A" "G" "A" "A" "T" "C" "A"
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## [8191] "A" "C" "A" "T" "T" "C" "T" "A" "A" "T" "T" "G" "T" "G" "T" "G" "A" "C"
## [8209] "T" "G" "A" "T" "C" "T" "C" "T" "G" "A" "T" "C" "A" "C" "C" "G" "T" "T"
## [8227] "A" "T" "T" "T" "T" "G" "T" "T" "C" "T" "T" "T" "T" "T" "G" "T" "T" "T"
## [8245] "G" "T" "A" "A" "C" "A" "A" "G" "C" "A" "A" "A" "T" "C" "A" "A" "C" "A"
## [8263] "A" "T" "T" "G" "T" "T" "C" "T" "T" "G" "T" "A" "G" "T" "G" "A" "T" "C"
## [8281] "T" "T" "T" "A" "T" "T" "G" "T" "T" "G" "A" "G" "A" "C" "A" "A" "C" "A"
## [8299] "A" "A" "A" "G" "A" "G" "A" "T" "T" "A" "A" "T" "A" "T" "T" "C" "A" "G"
## [8317] "A" "T" "G" "G" "A" "A" "A" "T" "G" "A" "T" "T" "C" "T" "T" "C" "T" "C"
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## [8371] "T" "G" "T" "A" "T" "T" "G" "T" "C" "G" "T" "C" "A" "T" "G" "G" "G" "G"

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## [8389] "A" "A" "T" "T" "A" "A" "A" "T" "T" "C" "C" "C" "C" "T" "T" "T" "A" "A"
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## [8569] "A" "T" "T" "G" "T" "T" "T" "C" "C" "G" "A" "C" "A" "G" "G" "T" "G" "G"
## [8587] "T" "A" "C" "G" "C" "T" "T" "C" "A" "C" "A" "G" "G" "G" "T" "A" "C" "T"
## [8605] "C" "G" "A" "A" "T" "A" "T" "T" "T" "C" "T" "A" "G" "T" "C" "G" "T" "A"
## [8623] "A" "G" "G" "T" "T" "C" "T" "T" "A" "C" "A" "A" "G" "A" "C" "A" "A" "T"
## [8641] "A" "G" "A" "A" "A" "T" "A" "T" "C" "G" "G" "T" "G" "C" "C" "T" "T" "G"
## [8659] "G" "A" "G" "G" "T" "T" "C" "T" "C" "G" "A" "T" "C" "G" "A" "A" "A" "A"
## [8677] "C" "A" "A" "C" "A" "T" "A" "T" "T" "T" "G" "G" "G" "T" "G" "T" "T" "T"
## [8695] "A" "C" "A" "T" "T" "C" "A" "C" "T" "T" "T" "T" "T" "T" "G" "G" "G" "A"
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## [8767] "A" "T" "T" "A" "T" "T" "A" "C" "T" "C" "T" "A" "G" "G" "G" "T" "A" "A"
## [8785] "A" "T" "A" "A" "T" "C" "G" "A" "C" "A" "T" "A" "C" "A" "T" "G" "T" "C"
## [8803] "A" "A" "C" "G" "T" "G" "T" "T" "A" "G" "T" "G" "G" "T" "T" "A" "G" "T"
## [8821] "T" "T" "C" "A" "A" "C" "T" "T" "A" "G" "A" "C" "G" "T" "A" "G" "T" "C"
## [8839] "T" "C" "T" "G" "T" "T" "T" "C" "A" "G" "T" "A" "A" "T" "T" "C" "T" "A"
## [8857] "G" "A" "C" "T" "T" "A" "G" "C" "T" "G" "T" "T" "C" "G" "T" "C" "G" "C"
## [8875] "A" "T" "G" "G" "G" "C" "A" "T" "C" "C" "G" "T" "T" "G" "G" "T" "G" "A"
## [8893] "C" "A" "G" "A" "A" "T" "T" "T" "T" "G" "T" "C" "G" "A" "C" "A" "T" "G"
## [8911] "G" "A" "C" "C" "A" "C" "G" "T" "T" "G" "A" "G" "G" "A" "A" "A" "T" "A"
## [8929] "G" "T" "C" "T" "T" "G" "G" "T" "C" "G" "T" "G" "G" "T" "T" "T" "T" "A"
## [8947] "C" "A" "T" "A" "T" "T" "G" "A" "G" "A" "G" "T" "A" "T" "A" "A" "T" "A"
## [8965] "T" "C" "C" "C" "A" "T" "G" "T" "C" "G" "A" "T" "T" "A" "C" "A" "A" "T"
## [8983] "T" "A" "C" "A" "C" "A" "A" "A" "T" "T" "T" "A" "T" "A" "A" "C" "T" "G"
## [9001] "T" "G" "T" "C" "A" "A" "C" "T" "C" "A" "T" "A" "T" "A" "A" "A" "A" "C"
## [9019] "G" "C" "T" "G" "T" "A" "A" "G" "T" "A" "G" "T" "A" "A" "T" "A" "C" "G"
## [9037] "G" "A" "A" "A" "T" "C" "C" "A" "T" "T" "A" "C" "A" "A" "C" "G" "T" "G"
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## [9073] "C" "C" "A" "G" "T" "G" "T" "G" "A" "A" "A" "A" "G" "A" "T" "T" "A" "T"
## [9091] "C" "G" "T" "A" "A" "G" "A" "A" "A" "C" "G" "T" "A" "A" "A" "A" "C" "A"
## [9109] "T" "T" "T" "C" "T" "A" "A" "T" "C" "C" "G" "T" "A" "T" "C" "G" "T" "T"
## [9127] "G" "T" "G" "G" "G" "C" "C" "A" "A" "C" "G" "G" "T" "G" "C" "G" "A" "A"
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## [9163] "C" "C" "A" "T" "T" "T" "T" "A" "C" "A" "A" "A" "G" "A" "T" "G" "T" "A"
## [9181] "C" "C" "G" "G" "T" "A" "G" "A" "A" "A" "T" "G" "T" "G" "G" "T" "T" "T"
## [9199] "C" "G" "T" "A" "T" "T" "T" "A" "C" "T" "T" "T" "A" "A" "A" "G" "A" "C"
## [9217] "A" "T" "A" "T" "C" "A" "G" "T" "T" "A" "T" "C" "A" "G" "T" "G" "A" "A"
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## [9253] "G" "T" "C" "T" "A" "T" "T" "T" "A" "G" "A" "A" "C" "C" "C" "T" "A" "A"
## [9271] "A" "A" "T" "A" "A" "T" "A" "A" "A" "G" "T" "T" "G" "T" "T" "T" "T" "A"
## [9289] "G" "T" "A" "G" "T" "T" "C" "A" "T" "T" "A" "T" "T" "T" "A" "G" "T" "T"
## [9307] "A" "T" "T" "G" "T" "C" "T" "T" "G" "T" "G" "T" "G" "T" "G" "T" "G" "A"
## [9325] "A" "T" "C" "T" "A" "C" "T" "T" "G" "G" "A" "C" "A" "A" "A" "C" "G" "C"
## [9343] "G" "T" "A" "G" "A" "C" "A" "A" "T" "A" "C" "T" "T" "T" "A" "T" "C" "A"

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## [9361] "A" "A" "A" "A" "T" "T" "G" "A" "C" "A" "T" "G" "A" "C" "A" "G" "G" "T"
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## [9397] "T" "A" "A" "G" "T" "T" "T" "T" "C" "C" "A" "C" "T" "A" "A" "G" "G" "A"
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## [9433] "G" "T" "T" "A" "G" "T" "C" "A" "T" "C" "T" "A" "C" "A" "T" "T" "T" "G"
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## [9469] "A" "T" "T" "T" "T" "A" "G" "A" "G" "G" "T" "A" "T" "T" "T" "G" "C" "T"
## [9487] "A" "T" "A" "C" "A" "A" "G" "C" "T" "T" "C" "C" "G" "T" "A" "T" "C" "G"
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## [9541] "G" "A" "T" "T" "A" "A" "G" "A" "T" "T" "C" "T" "T" "T" "A" "G" "T" "T"
## [9559] "A" "A" "A" "G" "G" "T" "A" "A" "A" "C" "T" "G" "A" "G" "G" "A" "C" "C"
## [9577] "C" "A" "A" "A" "T" "T" "T" "A" "A" "G" "A" "A" "C" "A" "T" "T" "T" "A"
## [9595] "A" "A" "G" "A" "T" "G" "A" "G" "A" "C" "T" "C" "A" "T" "T" "T" "C" "A"
## [9613] "T" "T" "C" "A" "A" "A" "G" "T" "C" "C" "A" "T" "T" "A" "A" "C" "A" "A"
## [9631] "C" "C" "T" "G" "T" "T" "G" "T" "G" "G" "T" "A" "G" "T" "T" "G" "A" "A"
## [9649] "A" "G" "A" "A" "T" "A" "T" "T" "A" "T" "T" "A" "A" "C" "T" "T" "G" "A"
## [9667] "C" "A" "C" "A" "A" "A" "A" "A" "T" "G" "C" "C" "G" "A" "A" "G" "A" "G"
## [9685] "G" "T" "T" "A" "A" "T" "T" "A" "C" "A" "C" "T" "G" "A" "G" "G" "T" "A"
## [9703] "A" "T" "T" "C" "T" "G" "A" "T" "C" "G" "A" "A" "C" "A" "A" "A" "C" "C"
## [9721] "C" "T" "G" "G" "A" "T" "G" "T" "C" "T" "A" "C" "C" "A" "A" "C" "A" "T"
## [9739] "T" "T" "G" "G" "A" "A" "A" "T" "T" "G" "T" "G" "A" "T" "G" "G" "A" "A"
## [9757] "G" "A" "C" "A" "T" "T" "A" "T" "T" "C" "T" "T" "G" "T" "G" "G" "T" "A"
## [9775] "A" "T" "G" "C" "C" "C" "G" "T" "A" "A" "A" "G" "A" "T" "T" "T" "A" "T"
## [9793] "T" "C" "A" "G" "A" "T" "G" "A" "A" "C" "T" "G" "G" "T" "A" "G" "T" "T"
## [9811] "G" "A" "G" "A" "T" "G" "G" "T" "A" "G" "T" "T" "T" "T" "T" "C" "T"
## [9829] "G" "T" "C" "A" "C" "T" "C" "A" "C" "C" "A" "C" "G" "T" "G" "T" "T" "T"
## [9847] "A" "G" "C" "A" "A" "A" "G" "T" "C" "A" "A" "C" "C" "A" "A" "A" "G" "A"
## [9865] "A" "C" "C" "G" "A" "T" "A" "C" "A" "G" "T" "C" "A" "G" "T" "A" "T" "C"
## [9883] "T" "T" "G" "T" "T" "T" "G" "T" "G" "G" "T" "T" "A" "T" "C" "A" "T" "C"
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## [9919] "G" "A" "G" "A" "A" "A" "A" "C" "A" "T" "C" "A" "G" "G" "G" "T" "C" "T"
## [9937] "A" "G" "T" "G" "T" "C" "A" "T" "A" "A" "T" "C" "G" "T" "C" "G" "T" "T"
## [9955] "A" "C" "A" "G" "G" "T" "G" "T" "G" "G" "G" "T" "T" "T" "A" "A" "T" "A"
## [9973] "A" "C" "T" "C" "A" "T" "A" "A" "A" "A" "G" "T" "G" "G" "A" "G" "A" "C"
## [9991] "C" "A" "T" "G" "A" "C" "C" "A" "A" "A" "T" "T" "A" "C" "A" "A" "C" "G"
## [10009] "C" "G" "A" "A" "T" "C" "G" "G" "G" "T" "T" "T" "C" "G" "A" "G" "T" "T"
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## [10063] "T" "G" "T" "T" "A" "A" "G" "A" "T" "G" "T" "A" "G" "T" "T" "G" "T" "G"
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## [10099] "G" "T" "C" "A" "C" "A" "A" "T" "A" "A" "T" "T" "A" "C" "T" "A" "T" "C"
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## [10135] "C" "A" "A" "C" "A" "G" "G" "T" "A" "G" "T" "T" "T" "C" "A" "C" "A" "G"
## [10153] "G" "G" "A" "A" "T" "A" "A" "A" "T" "G" "T" "T" "G" "T" "A" "A" "T" "T"
## [10171] "T" "T" "C" "G" "G" "T" "G" "T" "A" "A" "A" "A" "G" "A" "T" "T" "T" "G"
## [10189] "A" "G" "A" "C" "T" "T" "C" "A" "G" "A" "A" "C" "A" "T" "T" "T" "T" "C"
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## [10279] "T" "T" "C" "G" "T" "A" "G" "C" "T" "C" "T" "A" "T" "G" "T" "T" "A" "G"
## [10297] "A" "C" "A" "T" "G" "A" "G" "T" "A" "A" "T" "C" "G" "T" "A" "C" "T" "A"
## [10315] "C" "A" "G" "A" "T" "G" "T" "C" "T" "G" "T" "C" "G" "T" "G" "G" "T" "G"

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## [10567] "G" "T" "T" "T" "A" "G" "A" "T" "G" "T" "T" "T" "G" "T" "T" "A" "C" "C"
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## [11053] "T" "G" "C" "C" "T" "A" "A" "T" "A" "T" "C" "T" "G" "C" "A" "T" "T" "A"
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## [12907] "G" "T" "G" "G" "T" "T" "G" "T" "A" "A" "A" "T" "T" "A" "A" "A" "C" "A"
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## [12943] "T" "T" "T" "G" "T" "T" "G" "T" "C" "G" "T" "A" "G" "T" "G" "G" "T" "A"
## [12961] "T" "C" "A" "G" "T" "G" "G" "A" "A" "A" "A" "A" "G" "T" "T" "T" "C" "C"
## [12979] "A" "C" "A" "T" "G" "A" "G" "A" "G" "G" "A" "T" "A" "A" "A" "C" "A" "T"
## [12997] "G" "A" "A" "A" "T" "G" "A" "C" "A" "A" "A" "A" "A" "T" "C" "A" "A" "T"
## [13015] "G" "T" "G" "C" "T" "A" "T" "T" "G" "G" "T" "C" "A" "T" "T" "T" "C" "T"
## [13033] "G" "T" "A" "T" "T" "A" "A" "A" "G" "C" "C" "A" "A" "T" "T" "C" "A" "C"
## [13051] "C" "A" "C" "C" "A" "G" "A" "T" "C" "C" "A" "A" "A" "T" "G" "G" "T" "T"
## [13069] "G" "A" "A" "G" "G" "G" "T" "A" "C" "T" "T" "T" "C" "T" "A" "C" "A" "T"
## [13087] "T" "A" "A" "G" "A" "G" "A" "C" "A" "G" "T" "C" "T" "G" "T" "C" "G" "T"
## [13105] "G" "A" "A" "G" "T" "G" "C" "A" "T" "G" "T" "C" "A" "T" "C" "G" "T" "T"
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## [13141] "T" "A" "C" "A" "G" "A" "G" "G" "A" "G" "T" "C" "A" "T" "C" "G" "A" "A"
## [13159] "A" "C" "T" "C" "G" "C" "A" "A" "A" "G" "A" "C" "G" "A" "C" "G" "T" "T"
## [13177] "T" "T" "T" "C" "G" "A" "A" "C" "T" "C" "A" "G" "A" "A" "A" "G" "T" "C"
## [13195] "A" "T" "G" "T" "C" "C" "A" "C" "A" "A" "T" "C" "G" "A" "T" "T" "T" "T"
## [13213] "A" "C" "A" "T" "T" "A" "G" "T" "G" "G" "T" "C" "G" "T" "A" "A" "A" "C"
## [13231] "A" "G" "G" "T" "C" "A" "G" "T" "G" "T" "A" "C" "A" "A" "C" "G" "T" "T"

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## [13321] "G" "T" "G" "T" "G" "T" "T" "A" "C" "C" "T" "T" "T" "T" "G" "A" "T" "T"
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## [13411] "T" "T" "G" "G" "A" "C" "C" "T" "C" "G" "T" "A" "A" "C" "G" "T" "T" "T"
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## [13465] "A" "A" "C" "T" "A" "T" "A" "C" "T" "G" "T" "A" "C" "C" "A" "G" "C" "A"
## [13483] "T" "T" "G" "T" "C" "G" "T" "A" "A" "A" "T" "G" "T" "T" "G" "T" "A" "T"
## [13501] "T" "C" "T" "T" "A" "C" "C" "A" "G" "A" "T" "G" "C" "A" "T" "A" "C" "G"
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## [13537] "T" "T" "C" "A" "G" "A" "C" "A" "C" "T" "T" "A" "A" "C" "G" "T" "T" "T"
## [13555] "C" "T" "T" "G" "T" "G" "T" "T" "C" "G" "G" "G" "G" "T" "T" "G" "T" "C"
## [13573] "G" "G" "A" "C" "A" "T" "T" "C" "T" "G" "A" "C" "A" "T" "A" "C" "G" "C"
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## [13663] "T" "G" "T" "A" "C" "A" "G" "A" "T" "T" "G" "T" "A" "C" "A" "C" "A" "G"
## [13681] "G" "A" "C" "A" "A" "T" "T" "G" "A" "G" "T" "A" "G" "T" "A" "C" "A" "T"
## [13699] "C" "G" "A" "A" "A" "G" "A" "A" "T" "A" "C" "A" "T" "A" "A" "C" "A" "T"
## [13717] "T" "C" "A" "T" "G" "T" "T" "T" "A" "C" "T" "T" "T" "C" "T" "G" "T" "A"
## [13735] "G" "T" "C" "G" "T" "A" "T" "G" "A" "G" "G" "A" "C" "T" "A" "A" "T" "C"
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## [13771] "T" "T" "C" "G" "T" "A" "G" "A" "T" "A" "T" "C" "G" "A" "T" "T" "T" "C"
## [13789] "T" "G" "T" "G" "C" "T" "T" "G" "G" "C" "A" "A" "G" "T" "T" "A" "G" "T"
## [13807] "A" "T" "T" "C" "A" "C" "A" "T" "G" "G" "T" "A" "G" "A" "C" "A" "A" "A"
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## [13897] "G" "T" "A" "G" "T" "G" "G" "G" "A" "C" "A" "A" "A" "T" "T" "G" "A" "T"
## [13915] "C" "G" "T" "A" "A" "C" "A" "T" "A" "C" "A" "A" "C" "T" "C" "T" "C" "G"
## [13933] "T" "T" "T" "T" "A" "A" "G" "T" "A" "C" "T" "C" "C" "A" "G" "G" "A" "A"
## [13951] "A" "T" "C" "A" "T" "T" "C" "C" "A" "G" "T" "C" "A" "G" "A" "G" "T" "C"
## [13969] "A" "G" "G" "T" "T" "G" "T" "A" "A" "A" "A" "C" "G" "A" "A" "G" "T" "C"
## [13987] "T" "G" "T" "A" "T" "T" "T" "T" "T" "G" "T" "A" "A" "C" "A" "A" "A" "A"
## [14005] "C" "T" "A" "T" "T" "A" "T" "T" "T" "C" "T" "T" "G" "A" "C" "T" "G" "A"
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## [14041] "G" "G" "T" "G" "A" "T" "C" "T" "G" "G" "A" "A" "C" "T" "C" "T" "A" "C"
## [14059] "G" "T" "A" "T" "T" "C" "A" "C" "G" "A" "T" "A" "A" "C" "T" "T" "T" "G"
## [14077] "T" "G" "T" "G" "T" "T" "G" "T" "C" "G" "T" "A" "G" "C" "A" "G" "T" "C"
## [14095] "T" "C" "T" "C" "A" "T" "A" "G" "T" "A" "G" "T" "A" "A" "C" "T" "C" "T"
## [14113] "T" "T" "A" "C" "A" "A" "A" "T" "G" "C" "G" "T" "T" "T" "A" "T" "A" "C"
## [14131] "G" "C" "A" "T" "T" "T" "T" "G" "A" "G" "T" "A" "A" "G" "T" "G" "T" "T"
## [14149] "T" "C" "A" "G" "A" "C" "A" "C" "A" "G" "T" "T" "G" "T" "A" "G" "A" "G"
## [14167] "A" "T" "A" "A" "A" "G" "A" "T" "A" "T" "C" "T" "C" "T" "G" "T" "G" "A"
## [14185] "G" "T" "A" "T" "T" "T" "C" "A" "G" "A" "C" "A" "C" "A" "A" "C" "A" "T"
## [14203] "T" "T" "A" "A" "C" "G" "C" "C" "T" "G" "T" "A" "T" "G" "A" "A" "T" "A"

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## [14221] "G" "C" "C" "G" "T" "T" "A" "A" "A" "A" "C" "A" "A" "T" "G" "G" "T" "A"
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## [14347] "G" "T" "A" "T" "A" "T" "C" "A" "C" "T" "T" "G" "G" "C" "G" "G" "T" "G"
## [14365] "T" "G" "T" "A" "C" "T" "G" "G" "T" "A" "A" "A" "G" "T" "G" "A" "G" "T"
## [14383] "T" "A" "T" "G" "A" "A" "C" "T" "C" "G" "T" "G" "T" "G" "A" "G" "T" "A"
## [14401] "A" "T" "C" "G" "A" "T" "T" "A" "G" "A" "T" "A" "T" "C" "T" "T" "T" "G"
## [14419] "C" "C" "A" "C" "A" "C" "T" "G" "T" "T" "C" "G" "A" "T" "G" "T" "T" "G"
## [14437] "T" "G" "C" "A" "A" "C" "A" "T" "A" "C" "A" "A" "A" "C" "G" "C" "T" "C"
## [14455] "G" "T" "T" "C" "T" "T" "G" "T" "T" "C" "A" "C" "T" "C" "C" "G" "G" "T"
## [14473] "A" "T" "T" "A" "A" "G" "A" "T" "T" "C" "G" "T" "A" "C" "A" "A" "T" "C"
## [14491] "C" "G" "T" "A" "C" "C" "G" "A" "G" "A" "T" "A" "G" "T" "G" "T" "A" "A"
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## [14527] "A" "T" "T" "C" "C" "A" "C" "T" "C" "C" "C" "A" "A" "A" "A" "G" "A" "T"
## [14545] "G" "T" "A" "G" "T" "G" "A" "T" "A" "T" "T" "T" "G" "T" "C" "A" "A" "A"
## [14563] "A" "A" "T" "T" "G" "T" "A" "T" "A" "A" "C" "A" "C" "G" "G" "T" "T" "G"
## [14581] "G" "T" "G" "G" "T" "A" "T" "C" "T" "T" "A" "A" "A" "C" "G" "A" "A" "C"
## [14599] "A" "A" "G" "G" "T" "T" "A" "A" "T" "G" "A" "T" "G" "T" "C" "A" "T" "C"
## [14617] "G" "A" "G" "G" "A" "G" "A" "T" "C" "A" "C" "C" "G" "C" "C" "G" "A" "T"
## [14635] "A" "A" "C" "T" "A" "A" "A" "G" "T" "T" "A" "T" "T" "A" "A" "A" "A" "A"
## [14653] "C" "T" "A" "C" "T" "T" "T" "G" "A" "C" "A" "G" "A" "T" "A" "A" "C" "C"
## [14671] "A" "G" "T" "A" "T" "C" "A" "T" "G" "A" "T" "G" "T" "C" "T" "A" "T" "C"
## [14689] "T" "C" "T" "G" "T" "G" "G" "T" "C" "G" "A" "T" "G" "C" "C" "A" "C" "G"
## [14707] "C" "T" "C" "G" "A" "G" "A" "T" "A" "A" "G" "A" "A" "A" "C" "G" "T" "G"
## [14725] "A" "T" "T" "A" "C" "C" "G" "T" "A" "T" "G" "A" "A" "T" "T" "C" "T" "A"
## [14743] "A" "G" "T" "A" "A" "A" "C" "T" "C" "A" "A" "T" "A" "T" "C" "A" "T" "C"
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## [14833] "A" "T" "C" "G" "G" "A" "A" "T" "G" "G" "G" "G" "T" "A" "A" "A" "T" "A"
## [14851] "A" "T" "T" "T" "A" "C" "C" "T" "T" "T" "T" "G" "G" "T" "C" "G" "A" "C"
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## [14887] "G" "C" "T" "A" "C" "T" "G" "A" "A" "C" "C" "A" "A" "T" "C" "G" "T" "A"
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## [14959] "T" "A" "T" "C" "A" "T" "C" "A" "A" "C" "A" "G" "A" "C" "T" "A" "T" "A"
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## [15031] "A" "T" "G" "G" "T" "A" "G" "G" "A" "C" "T" "C" "G" "T" "T" "T" "C" "T"
## [15049] "T" "C" "T" "T" "C" "A" "C" "A" "A" "A" "A" "T" "T" "A" "A" "G" "T" "T"
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## [15193] "A" "C" "G" "C" "A" "A" "A" "T" "A" "G" "A" "T" "C" "A" "T" "T" "A" "T"
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## [17785] "C" "C" "T" "T" "T" "C" "G" "T" "T" "T" "T" "G" "T" "C" "T" "T" "T" "C"
## [17803] "A" "T" "C" "A" "C" "T" "T" "T" "G" "G" "T" "A" "A" "A" "A" "A" "A" "G"
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## [17857] "T" "A" "A" "C" "A" "C" "A" "T" "T" "G" "A" "C" "C" "T" "G" "T" "G" "T"
## [17875] "A" "A" "C" "T" "C" "G" "G" "G" "T" "G" "T" "T" "A" "A" "A" "T" "C" "T"
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## [19045] "T" "C" "G" "G" "T" "G" "T" "T" "C" "C" "A" "A" "T" "T" "T" "C" "A" "G"
## [19063] "T" "A" "A" "T" "T" "C" "T" "C" "A" "A" "C" "A" "C" "C" "A" "T" "T" "T"

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## [19081] "A" "G" "C" "T" "A" "A" "C" "T" "C" "T" "T" "T" "G" "G" "T" "G" "G" "A"
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## [20035] "T" "T" "T" "C" "T" "G" "A" "T" "G" "T" "G" "C" "A" "G" "A" "G" "A" "A"

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## [20053] "A" "T" "C" "C" "A" "T" "T" "A" "A" "T" "G" "A" "T" "T" "T" "C" "T" "T"
## [20071] "G" "G" "T" "T" "A" "T" "C" "T" "T" "T" "A" "C" "G" "A" "A" "A" "C" "A"
## [20089] "C" "C" "T" "T" "T" "A" "T" "G" "T" "T" "T" "A" "C" "T" "A" "T" "A" "T"
## [20107] "T" "C" "G" "T" "T" "A" "A" "C" "A" "A" "T" "A" "G" "G" "T" "C" "T" "T"
## [20125] "T" "C" "C" "A" "T" "G" "A" "T" "T" "T" "C" "C" "A" "C" "A" "C" "T" "T"
## [20143] "G" "T" "A" "T" "T" "G" "G" "T" "A" "G" "G" "T" "G" "A" "C" "T" "T" "A"
## [20161] "T" "A" "C" "A" "C" "G" "A" "T" "T" "T" "T" "T" "T" "C" "T" "T" "T" "G"
## [20179] "T" "A" "G" "T" "A" "A" "T" "C" "A" "T" "T" "C" "T" "A" "T" "T" "T" "T"
## [20197] "A" "C" "A" "G" "T" "T" "C" "A" "T" "G" "T" "T" "C" "A" "T" "T" "T" "A"
## [20215] "T" "T" "G" "T" "C" "T" "T" "A" "T" "T" "T" "G" "T" "G" "G" "T" "C" "C"
## [20233] "A" "T" "T" "C" "T" "T" "A" "C" "T" "C" "A" "T" "T" "T" "G" "A" "C" "C"
## [20251] "A" "C" "A" "A" "T" "T" "T" "G" "T" "C" "T" "C" "A" "T" "G" "T" "C" "A"
## [20269] "C" "T" "T" "A" "C" "T" "G" "T" "A" "T" "T" "C" "C" "T" "T" "A" "T" "C"
## [20287] "A" "T" "T" "T" "C" "A" "T" "A" "A" "T" "T" "T" "C" "C" "G" "T" "T" "G"
## [20305] "A" "T" "G" "T" "A" "C" "T" "G" "A" "C" "A" "T" "A" "A" "G" "T" "G" "G"
## [20323] "T" "T" "T" "T" "C" "G" "A" "G" "A" "A" "G" "A" "T" "T" "T" "G" "G" "A"
## [20341] "G" "T" "A" "T" "T" "T" "T" "A" "T" "C" "A" "T" "C" "C" "G" "T" "T" "C"
## [20359] "C" "G" "T" "A" "C" "A" "A" "T" "G" "A" "T" "G" "C" "T" "A" "T" "C" "G"
## [20377] "A" "T" "G" "T" "T" "A" "T" "G" "G" "T" "G" "G" "T" "C" "G" "A" "T" "G"
## [20395] "A" "T" "A" "T" "C" "T" "A" "C" "G" "A" "C" "T" "A" "T" "A" "C" "A" "G"
## [20413] "G" "T" "T" "T" "C" "G" "T" "G" "G" "T" "T" "A" "T" "C" "C" "A" "A" "C"
## [20431] "T" "T" "A" "A" "T" "C" "A" "C" "C" "A" "C" "A" "T" "T" "T" "G" "T" "A"
## [20449] "T" "A" "A" "T" "C" "A" "T" "T" "C" "A" "T" "T" "T" "A" "A" "A" "T" "G"
## [20467] "T" "C" "G" "T" "A" "G" "A" "T" "G" "T" "G" "G" "T" "G" "T" "C" "T" "T"
## [20485] "T" "T" "G" "A" "G" "G" "A" "C" "C" "A" "T" "T" "T" "C" "T" "A" "G" "A"
## [20503] "C" "A" "T" "T" "A" "T" "T" "A" "G" "T" "A" "A" "C" "A" "A" "T" "T" "C"
## [20521] "A" "T" "G" "G" "G" "T" "A" "G" "A" "T" "G" "G" "T" "G" "A" "T" "C" "A"
## [20539] "T" "C" "T" "A" "T" "G" "T" "G" "T" "T" "T" "G" "T" "G" "G" "T" "C" "G"
## [20557] "A" "A" "G" "A" "C" "T" "A" "G" "A" "A" "A" "G" "T" "G" "T" "T" "C" "A"
## [20575] "C" "G" "G" "C" "A" "C" "G" "G" "A" "T" "G" "T" "C" "A" "T" "G" "A" "G"
## [20593] "T" "C" "T" "T" "A" "G" "T" "T" "T" "T" "C" "A" "A" "C" "A" "A" "T" "G"
## [20611] "G" "T" "G" "A" "G" "A" "T" "T" "G" "T" "C" "T" "T" "G" "G" "A" "A" "G"
## [20629] "T" "T" "C" "C" "A" "T" "C" "C" "A" "C" "A" "A" "T" "C" "C" "T" "T" "T"
## [20647] "A" "A" "C" "T" "T" "A" "T" "T" "A" "T" "C" "T" "C" "G" "G" "T" "A" "G"
## [20665] "G" "T" "A" "C" "T" "C" "G" "T" "G" "T" "A" "T" "T" "G" "C" "A" "C" "A"
## [20683] "C" "A" "G" "T" "C" "C" "C" "G" "C" "A" "T" "T" "T" "G" "A" "A" "A" "G"
## [20701] "T" "A" "T" "T" "C" "G" "T" "T" "G" "T" "C" "T" "T" "G" "G" "A" "A" "G"
## [20719] "A" "T" "C" "A" "T" "G" "T" "A" "A" "C" "C" "A" "T" "A" "G" "T" "A" "T"
## [20737] "T" "G" "T" "T" "A" "T" "A" "C" "C" "A" "T" "G" "A" "C" "C" "G" "A" "A"
## [20755] "T" "G" "G" "T" "C" "T" "T" "C" "G" "T" "A" "G" "A" "A" "A" "T" "T" "T"
## [20773] "T" "T" "A" "A" "C" "A" "T" "G" "T" "A" "A" "G" "T" "C" "G" "T" "C" "G"
## [20791] "G" "T" "T" "T" "T" "G" "T" "G" "T" "T" "C" "G" "A" "C" "T" "A" "C" "A"
## [20809] "A" "C" "G" "T" "T" "T" "C" "A" "G" "T" "C" "A" "C" "A" "T" "G" "A" "G"
## [20827] "A" "T" "A" "T" "T" "C" "A" "A" "A" "A" "C" "T" "A" "C" "C" "A" "C" "A"
## [20845] "C" "A" "T" "T" "G" "T" "C" "T" "A" "C" "A" "A" "T" "G" "G" "T" "T" "G"
## [20863] "A" "C" "G" "T" "G" "A" "T" "T" "T" "T" "T" "G" "A" "G" "A" "T" "C" "C"
## [20881] "A" "T" "T" "C" "T" "T" "T" "A" "C" "G" "T" "T" "T" "T" "T" "C" "A" "G"
## [20899] "T" "G" "G" "T" "A" "A" "T" "C" "A" "A" "C" "A" "C" "G" "C" "A" "T" "T"
## [20917] "A" "T" "A" "G" "C" "A" "C" "G" "G" "T" "C" "C" "G" "T" "T" "T" "G" "G"
## [20935] "T" "C" "C" "G" "T" "G" "C" "T" "G" "T" "T" "T" "T" "G" "G" "G" "T" "G"
## [20953] "A" "A" "G" "A" "G" "A" "A" "C" "A" "A" "T" "A" "C" "T" "G" "A" "C" "G"
## [20971] "T" "C" "G" "T" "T" "A" "G" "T" "T" "A" "C" "C" "C" "G" "T" "T" "C" "G"
## [20989] "A" "A" "A" "C" "A" "G" "T" "A" "A" "T" "C" "A" "T" "A" "T" "T" "G" "A"
## [21007] "T" "G" "G" "T" "G" "G" "T" "G" "C" "G" "A" "C" "C" "G" "A" "T" "T" "T"

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## [21025] "G" "G" "T" "A" "C" "A" "C" "A" "G" "T" "T" "T" "T" "A" "G" "T" "C" "G"
## [21043] "T" "A" "C" "A" "A" "A" "C" "A" "A" "T" "C" "G" "T" "T" "T" "T" "G" "T"
## [21061] "T" "C" "A" "T" "A" "G" "A" "C" "A" "T" "C" "T" "A" "C" "G" "A" "T" "A"
## [21079] "C" "A" "G" "T" "G" "C" "T" "C" "A" "C" "T" "G" "T" "G" "G" "T" "G" "G"
## [21097] "T" "A" "G" "T" "T" "A" "T" "C" "G" "G" "A" "A" "C" "A" "T" "A" "G" "G"
## [21115] "A" "T" "A" "C" "T" "A" "A" "A" "G" "T" "G" "A" "A" "C" "T" "T" "T" "T"
## [21133] "C" "A" "G" "T" "C" "A" "T" "A" "C" "A" "A" "A" "T" "C" "T" "G" "T" "A"
## [21151] "C" "T" "G" "T" "A" "C" "T" "T" "G" "T" "C" "C" "A" "C" "A" "A" "T" "A"
## [21169] "A" "T" "T" "T" "A" "T" "C" "T" "T" "T" "T" "A" "T" "C" "G" "T" "C" "G"
## [21187] "T" "T" "G" "T" "T" "T" "T" "T" "C" "C" "T" "T" "G" "T" "G" "T" "T" "C"
## [21205] "A" "C" "A" "T" "T" "G" "A" "A" "A" "T" "T" "A" "A" "T" "T" "G" "A" "C"
## [21223] "G" "A" "A" "G" "T" "T" "G" "G" "T" "T" "A" "A" "T" "A" "A" "T" "T" "G"
## [21241] "T" "T" "A" "A" "A" "A" "T" "G" "G" "T" "G" "G" "G" "A" "A" "T" "T" "C"
## [21259] "A" "C" "G" "A" "T" "A" "G" "A" "A" "A" "C" "A" "A" "C" "A" "A" "T" "G"
## [21277] "T" "T" "G" "T" "A" "A" "T" "T" "G" "T" "T" "G" "A" "A" "C" "A" "G" "A"
## [21295] "T" "C" "A" "T" "C" "A" "A" "C" "G" "T" "G" "T" "A" "C" "A" "G" "T" "T"
## [21313] "G" "A" "A" "T" "T" "T" "T" "C" "C" "A" "T" "T" "C" "A" "A" "T" "A" "A"
## [21331] "G" "A" "A" "A" "A" "A" "T" "C" "G" "T" "C" "G" "T" "G" "A" "T" "G" "C"
## [21349] "A" "T" "A" "A" "A" "C" "A" "A" "A" "A" "G" "C" "A" "T" "C" "A" "A" "C"
## [21367] "A" "A" "G" "T" "C" "T" "G" "T" "T" "A" "C" "T" "G" "T" "A" "C" "T" "T"
## [21385] "T" "A" "G" "A" "A" "A" "T" "T" "G" "C" "A" "A" "G" "G" "T" "A" "T" "A"
## [21403] "G" "T" "T" "T" "C" "A" "T" "T" "A" "C" "A" "A" "C" "A" "C" "T" "G" "A"
## [21421] "A" "A" "A" "A" "C" "G" "A" "T" "G" "G" "A" "C" "G" "C" "G" "T" "A" "A"
## [21439] "T" "T" "A" "T" "A" "C" "T" "G" "C" "G" "C" "G" "T" "G" "A" "T" "G" "T"
## [21457] "C" "A" "G" "T" "T" "A" "T" "G" "T" "T" "C" "G" "T" "G" "G" "T" "T" "C"
## [21475] "C" "A" "G" "T" "G" "C" "C" "C" "C" "A" "C" "A" "G" "T" "A" "C" "A" "A"
## [21493] "A" "A" "G" "T" "T" "G" "A" "A" "A" "C" "A" "A" "T" "A" "T" "C" "C" "A"
## [21511] "C" "T" "C" "G" "T" "A" "T" "A" "T" "C" "A" "A" "T" "A" "A" "T" "G" "T"
## [21529] "T" "G" "A" "T" "A" "G" "C" "G" "G" "T" "C" "A" "T" "T" "G" "A" "A" "G"
## [21547] "A" "T" "A" "C" "A" "G" "T" "C" "T" "A" "A" "C" "T" "A" "C" "A" "C" "T"
## [21565] "G" "T" "T" "A" "A" "A" "T" "T" "C" "T" "G" "T" "A" "A" "G" "T" "T" "G"
## [21583] "T" "T" "G" "T" "A" "G" "A" "A" "A" "T" "C" "A" "A" "A" "G" "A" "T" "G"
## [21601] "T" "A" "G" "A" "C" "T" "T" "A" "G" "T" "T" "G" "T" "T" "T" "G" "G" "G"
## [21619] "A" "A" "C" "G" "G" "C" "T" "C" "G" "A" "C" "G" "A" "C" "T" "T" "T" "A"
## [21637] "T" "T" "T" "T" "C" "A" "T" "C" "T" "A" "T" "T" "C" "T" "G" "T" "A" "A"
## [21655] "C" "A" "G" "A" "T" "T" "C" "C" "T" "G" "T" "G" "T" "A" "A" "G" "A" "A"
## [21673] "A" "C" "G" "T" "T" "C" "A" "A" "G" "T" "C" "G" "A" "A" "G" "A" "C" "G"
## [21691] "T" "C" "A" "A" "C" "G" "T" "T" "G" "A" "T" "C" "A" "C" "A" "A" "A" "A"
## [21709] "C" "T" "C" "A" "A" "A" "A" "A" "G" "G" "T" "A" "A" "C" "C" "A" "T" "G"
## [21727] "C" "A" "A" "T" "T" "T" "T" "C" "A" "A" "C" "T" "A" "C" "T" "T" "T" "T"
## [21745] "G" "C" "A" "T" "A" "A" "T" "T" "G" "C" "A" "T" "T" "C" "G" "T" "A" "G"
## [21763] "T" "T" "T" "G" "T" "A" "A" "A" "A" "T" "T" "G" "A" "C" "G" "T" "T" "G"
## [21781] "A" "A" "G" "G" "C" "G" "T" "G" "A" "T" "A" "G" "T" "G" "G" "T" "T" "G"
## [21799] "T" "A" "G" "T" "C" "T" "G" "T" "G" "A" "T" "T" "A" "C" "G" "G" "A" "C"
## [21817] "T" "A" "G" "A" "T" "C" "A" "T" "T" "G" "T" "C" "A" "T" "A" "T" "C" "C"
## [21835] "A" "A" "C" "T" "G" "T" "G" "T" "A" "T" "T" "C" "G" "A" "C" "T" "G" "A"
## [21853] "C" "A" "T" "C" "A" "T" "T" "T" "G" "T" "C" "T" "G" "C" "G" "A" "C" "T"
## [21871] "A" "A" "A" "A" "C" "G" "T" "C" "T" "A" "C" "T" "A" "A" "G" "A" "A" "G"
## [21889] "T" "G" "T" "A" "A" "A" "A" "C" "T" "A" "A" "A" "T" "G" "G" "T" "A" "G"
## [21907] "T" "T" "T" "T" "T" "G" "A" "T" "A" "T" "T" "G" "T" "A" "A" "T" "T" "A"
## [21925] "T" "C" "C" "G" "T" "T" "A" "C" "T" "T" "G" "G" "A" "A" "A" "T" "C" "A"
## [21943] "C" "A" "A" "T" "A" "A" "T" "C" "G" "A" "G" "A" "G" "T" "C" "C" "A" "A"
## [21961] "C" "A" "G" "A" "T" "T" "C" "A" "A" "T" "T" "G" "T" "T" "T" "T" "A" "C"
## [21979] "T" "C" "T" "C" "T" "C" "T" "C" "T" "T" "A" "C" "A" "G" "A" "A" "A" "G"

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## [21997] "T" "A" "T" "T" "C" "A" "G" "A" "A" "A" "A" "C" "T" "G" "G" "T" "C" "G"
## [22015] "A" "A" "A" "T" "A" "G" "T" "T" "T" "C" "A" "T" "T" "T" "C" "T" "A" "C"
## [22033] "C" "T" "A" "C" "C" "T" "T" "G" "G" "T" "A" "A" "G" "A" "A" "G" "T" "G"
## [22051] "A" "C" "A" "T" "T" "G" "T" "G" "A" "T" "A" "G" "T" "T" "G" "C" "T" "A"
## [22069] "C" "A" "T" "T" "C" "T" "T" "C" "T" "G" "A" "C" "C" "A" "G" "T" "C" "A"
## [22087] "T" "C" "C" "T" "A" "A" "A" "T" "A" "A" "C" "C" "A" "G" "A" "A" "A" "A"
## [22105] "T" "T" "T" "G" "A" "C" "A" "T" "C" "A" "C" "T" "G" "T" "T" "C" "A" "G"
## [22123] "A" "G" "A" "G" "C" "G" "T" "T" "G" "A" "A" "G" "T" "A" "G" "T" "G" "A"
## [22141] "T" "T" "A" "T" "T" "T" "A" "C" "A" "T" "G" "A" "T" "G" "G" "T" "C" "G"
## [22159] "T" "G" "T" "C" "T" "T" "A" "C" "A" "T" "A" "G" "T" "G" "T" "T" "A" "A"
## [22177] "T" "T" "G" "T" "G" "T" "T" "A" "A" "G" "G" "T" "T" "A" "A" "C" "A" "C"
## [22195] "A" "T" "C" "A" "A" "A" "C" "G" "T" "T" "T" "T" "C" "G" "G" "A" "A" "A"
## [22213] "T" "G" "G" "A" "G" "G" "T" "A" "A" "T" "C" "G" "T" "A" "T" "C" "T" "G"
## [22231] "T" "A" "T" "T" "T" "T" "C" "C" "T" "G" "G" "A" "A" "G" "A" "T" "T" "G"
## [22249] "T" "G" "G" "T" "A" "A" "T" "T" "G" "T" "T" "A" "T" "C" "A" "A" "C" "A"
## [22267] "T" "G" "T" "A" "A" "G" "C" "T" "G" "A" "G" "A" "A" "C" "A" "A" "C" "G"
## [22285] "A" "G" "A" "T" "A" "A" "T" "G" "C" "A" "A" "A" "C" "A" "T" "T" "G" "T"
## [22303] "G" "T" "A" "G" "T" "A" "T" "G" "T" "T" "C" "A" "A" "C" "T" "A" "C" "T"
## [22321] "T" "A" "A" "T" "G" "T" "T" "G" "G" "C" "A" "G" "A" "T" "G" "T" "T" "G"
## [22339] "T" "A" "C" "G" "T" "G" "T" "A" "T" "T" "G" "A" "A" "A" "A" "G" "G" "T"
## [22357] "A" "T" "G" "T" "A" "T" "T" "A" "T" "T" "T" "T" "A" "C" "T" "A" "C" "G"
## [22375] "T" "T" "T" "C" "T" "T" "C" "T" "A" "C" "A" "T" "G" "T" "A" "A" "G" "A"
## [22393] "T" "T" "G" "G" "T" "A" "T" "C" "G" "A" "C" "T" "T" "T" "A" "G" "C" "C"
## [22411] "C" "C" "G" "G" "T" "A" "A" "A" "C" "A" "T" "G" "T" "T" "C" "T" "A" "A"
## [22429] "T" "T" "A" "A" "T" "A" "A" "T" "T" "G" "G" "T" "G" "T" "A" "T" "T" "C"
## [22447] "G" "G" "T" "T" "C" "T" "T" "A" "A" "T" "G" "A" "T" "T" "A" "T" "T" "T"
## [22465] "T" "A" "C" "A" "T" "G" "A" "C" "G" "T" "T" "T" "T" "A" "T" "C" "G" "A"
## [22483] "C" "T" "T" "T" "T" "T" "G" "T" "T" "A" "A" "C" "G" "T" "A" "C" "T" "A"
## [22501] "A" "C" "G" "T" "C" "G" "G" "T" "T" "A" "G" "G" "T" "T" "C" "A" "T" "G"
## [22519] "T" "A" "T" "C" "T" "T" "T" "T" "T" "G" "G" "A" "T" "C" "A" "C" "T" "T"
## [22537] "T" "T" "C" "T" "T" "A" "T" "A" "T" "A" "C" "G" "G" "T" "T" "T" "T" "T"
## [22555] "G" "G" "T" "G" "A" "G" "A" "C" "G" "T" "T" "G" "A" "T" "T" "C" "G" "G"
## [22573] "T" "T" "T" "T" "C" "G" "T" "C" "A" "A" "T" "T" "T" "A" "G" "G" "G" "T"
## [22591] "A" "A" "A" "T" "T" "T" "T" "C" "T" "A" "C" "T" "T" "T" "A" "C" "C" "A"
## [22609] "T" "T" "A" "A" "A" "C" "A" "T" "A" "T" "C" "A" "A" "A" "G" "A" "T" "T"
## [22627] "T" "C" "T" "T" "C" "C" "T" "A" "T" "C" "C" "A" "C" "A" "G" "A" "T" "T"
## [22645] "T" "C" "T" "T" "A" "G" "A" "T" "T" "T" "G" "G" "T" "G" "A" "T" "T" "C"
## [22663] "T" "G" "T" "T" "T" "G" "T" "G" "A" "T" "G" "T" "T" "C" "C" "A" "T" "A"
## [22681] "T" "C" "T" "T" "G" "G" "T" "C" "A" "T" "G" "T" "C" "A" "T" "C" "C" "A"
## [22699] "A" "C" "G" "T" "T" "A" "T" "C" "A" "C" "T" "G" "T" "A" "A" "T" "C" "A"
## [22717] "T" "C" "T" "C" "A" "A" "G" "T" "T" "T" "A" "T" "C" "G" "G" "A" "A" "G"
## [22735] "A" "G" "A" "C" "A" "T" "T" "G" "G" "T" "C" "A" "T" "G" "T" "C" "A" "T"
## [22753] "T" "C" "T" "T" "C" "C" "G" "T" "A" "C" "G" "G" "A" "T" "T" "T" "A" "A"
## [22771] "T" "C" "T" "G" "T" "A" "A" "T" "T" "T" "T" "G" "T" "G" "G" "A" "T" "T"
## [22789] "T" "C" "G" "T" "C" "G" "C" "C" "A" "A" "C" "T" "C" "A" "T" "C" "T" "A"
## [22807] "A" "T" "T" "T" "C" "T" "T" "G" "G" "A" "T" "C" "C" "G" "T" "T" "T" "G"
## [22825] "T" "G" "A" "A" "T" "T" "A" "T" "C" "A" "T" "T" "T" "T" "T" "G" "G" "T"
## [22843] "T" "T" "A" "A" "T" "A" "T" "T" "A" "T" "A" "A" "A" "T" "A" "G" "T" "C"
## [22861] "A" "A" "A" "T" "C" "T" "T" "T" "T" "T" "A" "A" "T" "C" "C" "A" "C" "T"
## [22879] "G" "A" "A" "G" "T" "T" "T" "A" "T" "T" "A" "A" "T" "T" "T" "A" "C" "T"
## [22897] "T" "C" "G" "G" "A" "G" "A" "T" "C" "T" "G" "T" "T" "T" "T" "A" "A" "A"
## [22915] "T" "G" "G" "C" "T" "G" "T" "G" "A" "G" "A" "A" "T" "T" "G" "T" "C" "A"
## [22933] "T" "A" "A" "G" "A" "A" "A" "C" "G" "A" "T" "A" "T" "C" "A" "T" "C" "A"
## [22951] "G" "C" "C" "G" "T" "A" "T" "C" "T" "A" "C" "G" "A" "A" "A" "T" "T" "A"

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## [22969] "A" "G" "A" "T" "C" "T" "T" "A" "A" "A" "C" "A" "T" "G" "A" "A" "G" "A"
## [22987] "T" "C" "A" "T" "T" "T" "T" "C" "A" "T" "G" "T" "G" "T" "T" "A" "A" "C"
## [23005] "A" "T" "C" "G" "T" "T" "A" "T" "T" "T" "C" "A" "T" "T" "T" "C" "T" "T"
## [23023] "T" "A" "T" "T" "C" "C" "G" "T" "A" "T" "A" "T" "T" "A" "A" "T" "C" "A"
## [23041] "T" "G" "T" "T" "T" "G" "T" "G" "C" "C" "A" "A" "A" "T" "T" "T" "G" "T"
## [23059] "G" "G" "C" "A" "C" "A" "T" "T" "G" "A" "T" "A" "C" "A" "A" "T" "C" "A"
## [23077] "T" "C" "A" "A" "C" "A" "T" "G" "A" "T" "T" "G" "T" "T" "G" "A" "A" "A"
## [23095] "C" "A" "A" "T" "T" "C" "T" "T" "T" "T" "C" "C" "G" "A" "A" "T" "C" "G"
## [23113] "T" "A" "T" "T" "A" "A" "T" "C" "G" "A" "T" "A" "T" "C" "A" "T" "A" "G"
## [23131] "G" "G" "T" "T" "C" "C" "C" "T" "G" "T" "G" "A" "T" "A" "A" "T" "T" "G"
## [23149] "T" "C" "G" "T" "C" "G" "A" "T" "T" "T" "G" "G" "T" "A" "C" "T" "C" "A"
## [23167] "T" "C" "G" "T" "T" "C" "C" "C" "A" "A" "A" "A" "G" "T" "T" "T" "G" "G"
## [23185] "A" "T" "T" "A" "T" "G" "A" "G" "A" "T" "C" "T" "A" "T" "T" "A" "A" "G"
## [23203] "T" "A" "A" "T" "C" "C" "A" "A" "A" "G" "A" "A" "T" "T" "A" "T" "C" "A"
## [23221] "T" "T" "C" "T" "G" "A" "T" "C" "T" "T" "A" "A" "C" "A" "G" "A" "T" "G"
## [23239] "T" "A" "T" "T" "C" "G" "T" "C" "G" "G" "T" "A" "A" "T" "C" "T" "A" "G"
## [23257] "A" "C" "A" "C" "A" "C" "C" "G" "G" "T" "T" "G" "G" "A" "G" "A" "A" "G"
## [23275] "A" "C" "A" "T" "T" "A" "A" "A" "A" "A" "T" "A" "T" "A" "A" "T" "A" "A"
## [23293] "A" "C" "G" "A" "C" "C" "A" "A" "A" "T" "T" "C" "A" "T" "A" "T" "T" "A"
## [23311] "C" "A" "G" "A" "G" "G" "A" "T" "G" "T" "T" "G" "A" "A" "G" "C" "C" "A"
## [23329] "T" "C" "A" "A" "A" "A" "G" "T" "G" "T" "A" "A" "T" "G" "T" "G" "A" "G"
## [23347] "T" "T" "C" "T" "T" "G" "C" "A" "G" "A" "A" "A" "G" "A" "C" "A" "T" "A"
## [23365] "C" "C" "A" "T" "C" "C" "T" "A" "A" "A" "A" "G" "G" "T" "G" "A" "T" "G"
## [23383] "A" "A" "G" "A" "A" "G" "T" "C" "T" "C" "T" "G" "A" "C" "C" "A" "A" "A"
## [23401] "A" "T" "C" "T" "A" "G" "A" "A" "G" "C" "G" "T" "C" "C" "G" "T" "T" "C"
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## [23437] "C" "A" "G" "G" "A" "G" "A" "C" "T" "G" "A" "A" "G" "T" "C" "A" "T" "G"
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## [23473] "A" "A" "G" "T" "T" "G" "A" "C" "C" "A" "A" "A" "A" "C" "A" "C" "G" "A"
## [23491] "G" "G" "T" "T" "T" "C" "T" "G" "T" "T" "G" "C" "A" "T" "A" "T" "G" "T"
## [23509] "G" "G" "T" "C" "C" "A" "T" "A" "A" "A" "C" "C" "A" "A" "A" "T" "A" "T"
## [23527] "G" "C" "A" "C" "C" "G" "A" "A" "A" "T" "A" "A" "T" "C" "A" "A" "C" "G"
## [23545] "T" "A" "A" "C" "A" "A" "T" "T" "G" "T" "A" "C" "G" "G" "T" "T" "T" "G"
## [23563] "T" "T" "A" "T" "C" "C" "A" "A" "A" "T" "A" "C" "A" "T" "T" "G" "T" "T"
## [23581] "A" "A" "A" "T" "C" "G" "A" "G" "G" "A" "A" "A" "G" "A" "A" "T" "T" "T"
## [23599] "T" "C" "T" "C" "C" "C" "A" "C" "A" "C" "A" "T" "C" "A" "C" "A" "A" "A"
## [23617] "T" "A" "T" "T" "A" "G" "T" "T" "A" "T" "C" "G" "G" "T" "G" "G" "T" "G"
## [23635] "T" "A" "G" "T" "G" "G" "T" "A" "A" "A" "T" "T" "C" "A" "G" "T" "C" "C"
## [23653] "C" "T" "T" "T" "T" "T" "A" "C" "A" "T" "T" "G" "A" "A" "A" "T" "T" "C"
## [23671] "G" "A" "G" "A" "G" "A" "A" "C" "T" "T" "C" "G" "T" "C" "C" "A" "A" "A"
## [23689] "G" "A" "A" "T" "A" "T" "T" "G" "G" "T" "C" "A" "A" "T" "T" "G" "A" "C"
## [23707] "C" "A" "A" "A" "T" "T" "T" "A" "G" "T" "A" "G" "T" "C" "G" "T" "T" "T"
## [23725] "A" "A" "A" "C" "T" "A" "T" "A" "A" "T" "A" "G" "T" "G" "T" "A" "T" "G"
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## [23761] "C" "G" "A" "A" "C" "G" "C" "A" "A" "A" "C" "C" "T" "A" "T" "A" "C" "C"
## [23779] "A" "A" "C" "C" "A" "A" "A" "C" "C" "A" "T" "G" "T" "T" "C" "T" "A" "G"
## [23797] "T" "T" "A" "A" "C" "C" "A" "A" "C" "G" "A" "G" "A" "C" "A" "C" "T" "T"
## [23815] "T" "A" "T" "T" "C" "T" "T" "A" "A" "C" "A" "G" "A" "A" "A" "G" "A" "A"
## [23833] "T" "A" "T" "T" "A" "T" "T" "A" "A" "C" "A" "G" "G" "T" "T" "G" "A" "A"
## [23851] "T" "C" "C" "C" "A" "G" "T" "T" "A" "A" "A" "G" "A" "C" "A" "T" "G" "T"
## [23869] "T" "T" "G" "T" "T" "G" "T" "G" "G" "T" "A" "G" "G" "T" "T" "A" "A" "A"
## [23887] "T" "A" "T" "T" "C" "A" "T" "T" "G" "A" "C" "C" "A" "A" "A" "A" "T" "A"
## [23905] "C" "C" "A" "A" "C" "A" "A" "C" "A" "C" "A" "T" "T" "G" "A" "C" "A" "A"
## [23923] "A" "A" "G" "A" "A" "A" "C" "A" "T" "C" "T" "T" "T" "T" "G" "T" "A" "G"

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## [23941] "G" "C" "A" "T" "T" "A" "T" "C" "C" "T" "G" "G" "A" "A" "A" "C" "A" "T"
## [23959] "A" "A" "G" "A" "C" "T" "C" "C" "T" "G" "A" "A" "A" "C" "A" "T" "T" "C"
## [23977] "A" "T" "T" "T" "C" "G" "T" "G" "G" "C" "A" "G" "A" "T" "A" "C" "G" "T"
## [23995] "T" "A" "T" "G" "T" "T" "T" "C" "A" "A" "A" "G" "A" "A" "A" "T" "C" "T"
## [24013] "T" "C" "A" "A" "T" "A" "T" "A" "C" "A" "A" "A" "T" "A" "T" "C" "A" "C"
## [24031] "T" "G" "G" "T" "G" "T" "G" "A" "C" "C" "A" "T" "T" "A" "A" "T" "G" "G"
## [24049] "T" "C" "A" "C" "A" "T" "G" "A" "G" "T" "G" "A" "T" "C" "G" "T" "G" "T"
## [24067] "T" "T" "A" "T" "T" "T" "A" "C" "A" "T" "G" "G" "T" "A" "C" "G" "A" "A"
## [24085] "T" "T" "C" "A" "A" "G" "T" "A" "T" "G" "A" "C" "T" "C" "G" "T" "C" "C"
## [24103] "A" "C" "C" "A" "C" "G" "A" "C" "T" "G" "T" "A" "G" "T" "A" "T" "T" "G"
## [24121] "T" "T" "T" "T" "C" "C" "A" "C" "T" "G" "A" "G" "G" "A" "C" "A" "A" "C"
## [24139] "A" "T" "G" "A" "T" "C" "T" "A" "T" "A" "A" "A" "A" "C" "A" "T" "C" "G"
## [24157] "A" "A" "C" "A" "A" "A" "T" "G" "G" "T" "G" "T" "G" "C" "A" "T" "G" "T"
## [24175] "T" "C" "C" "A" "T" "A" "G" "A" "C" "T" "T" "G" "T" "G" "G" "A" "A" "A"
## [24193] "G" "A" "A" "T" "T" "T" "A" "A" "C" "A" "A" "G" "T" "A" "T" "T" "C" "T"
## [24211] "T" "T" "C" "A" "C" "A" "C" "G" "G" "G" "T" "A" "C" "A" "T" "G" "T" "A"
## [24229] "T" "T" "G" "T" "C" "G" "A" "A" "G" "A" "T" "G" "T" "G" "G" "G" "A" "A"
## [24247] "T" "T" "C" "C" "C" "A" "A" "C" "A" "G" "A" "C" "G" "A" "C" "A" "A" "C"
## [24265] "A" "G" "G" "T" "G" "T" "T" "C" "A" "A" "A" "A" "T" "G" "T" "G" "T" "G"
## [24283] "G" "T" "G" "C" "A" "A" "G" "T" "T" "C" "T" "G" "A" "G" "A" "A" "A" "A"
## [24301] "C" "G" "T" "T" "C" "T" "T" "A" "G" "A" "T" "T" "T" "A" "A" "C" "C" "G"
## [24319] "T" "A" "C" "A" "A" "C" "T" "T" "T" "G" "T" "T" "C" "A" "T" "T" "G" "A"
## [24337] "G" "T" "A" "A" "C" "A" "A" "A" "G" "A" "G" "A" "T" "T" "G" "T" "A" "G"
## [24355] "T" "G" "G" "A" "T" "T" "G" "A" "G" "T" "G" "G" "A" "T" "G" "A" "C" "A"
## [24373] "G" "A" "A" "T" "A" "A" "T" "G" "T" "C" "A" "T" "C" "C" "G" "A" "T" "T"
## [24391] "C" "T" "A" "T" "T" "C" "A" "C" "G" "T" "G" "T" "T" "T" "T" "C" "A" "A"
## [24409] "T" "C" "G" "G" "C" "G" "A" "A" "G" "T" "G" "G" "T" "C" "G" "G" "G" "A"
## [24427] "A" "C" "G" "A" "G" "A" "C" "A" "T" "T" "A" "T" "T" "C" "G" "T" "A" "G"
## [24445] "A" "A" "C" "A" "T" "C" "T" "C" "G" "T" "C" "C" "A" "C" "C" "T" "A" "A"
## [24463] "T" "T" "T" "G" "A" "A" "G" "T" "T" "G" "A" "G" "A" "T" "A" "A" "A" "C"
## [24481] "A" "A" "C" "C" "T" "C" "A" "C" "A" "A" "T" "T" "G" "T" "T" "A" "C" "G"
## [24499] "T" "C" "A" "C" "C" "G" "T" "T" "C" "T" "A" "T" "T" "G" "T" "C" "A" "A"
## [24517] "C" "A" "A" "T" "A" "G" "A" "C" "G" "G" "G" "T" "A" "A" "A" "T" "T" "A"
## [24535] "T" "C" "T" "T" "C" "A" "A" "T" "T" "T" "G" "G" "T" "A" "A" "T" "T" "G"
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## [24643] "G" "A" "G" "T" "T" "G" "T" "G" "C" "A" "T" "C" "T" "C" "A" "C" "A" "G"
## [24661] "T" "A" "G" "T" "A" "A" "T" "C" "C" "A" "T" "T" "T" "T" "G" "T" "A" "T"
## [24679] "T" "T" "T" "A" "C" "A" "A" "A" "A" "T" "G" "G" "A" "A" "G" "T" "A" "C"
## [24697] "A" "C" "T" "T" "A" "A" "T" "A" "C" "T" "C" "C" "A" "A" "A" "A" "T" "A"
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## [24751] "T" "T" "T" "G" "A" "C" "A" "A" "C" "A" "G" "G" "T" "A" "T" "A" "C" "A"
## [24769] "G" "T" "A" "A" "C" "T" "G" "T" "A" "C" "A" "G" "G" "T" "G" "T" "T" "G"
## [24787] "A" "A" "C" "G" "C" "A" "C" "A" "C" "C" "T" "C" "C" "A" "A" "T" "T" "A"
## [24805] "C" "A" "A" "C" "A" "G" "A" "T" "G" "A" "C" "A" "A" "C" "A" "T" "T" "T"
## [24823] "G" "T" "G" "G" "A" "A" "T" "T" "A" "T" "C" "A" "G" "G" "A" "G" "T" "G"
## [24841] "A" "A" "G" "A" "G" "A" "G" "T" "T" "T" "C" "T" "T" "T" "C" "T" "T" "C"
## [24859] "A" "C" "A" "G" "A" "A" "T" "T" "C" "T" "A" "A" "C" "A" "G" "T" "T" "T"
## [24877] "C" "C" "A" "C" "T" "A" "T" "T" "G" "A" "A" "G" "T" "G" "G" "T" "A" "G"
## [24895] "A" "T" "C" "C" "A" "C" "C" "T" "T" "A" "C" "A" "C" "C" "A" "T" "C" "C"

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## [24913] "T" "A" "A" "T" "G" "A" "T" "C" "A" "C" "A" "T" "T" "A" "T" "A" "T" "G"
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## [24949] "T" "T" "C" "T" "T" "T" "A" "A" "G" "A" "T" "A" "T" "G" "G" "A" "T" "C"
## [24967] "A" "A" "C" "A" "C" "A" "T" "C" "T" "A" "A" "C" "A" "G" "G" "T" "C" "T"
## [24985] "T" "A" "T" "C" "C" "T" "G" "G" "T" "T" "A" "G" "A" "A" "A" "T" "A" "T"
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## [25093] "T" "C" "C" "A" "C" "T" "T" "C" "T" "T" "T" "G" "T" "C" "T" "T" "T" "G"
## [25111] "A" "C" "A" "T" "C" "G" "A" "C" "C" "G" "T" "G" "A" "A" "A" "C" "T" "C"
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## [25147] "T" "C" "G" "A" "A" "G" "A" "A" "G" "G" "T" "T" "T" "A" "A" "A" "T" "T"
## [25165] "C" "G" "G" "T" "A" "C" "A" "C" "A" "A" "T" "G" "T" "A" "T" "C" "G" "G"
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## [25219] "T" "T" "C" "A" "C" "A" "C" "A" "A" "C" "T" "A" "T" "T" "C" "A" "C" "T"
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## [25255] "C" "C" "A" "C" "A" "T" "T" "T" "T" "C" "A" "T" "T" "T" "T" "A" "G" "A"
## [25273] "T" "C" "G" "T" "G" "G" "T" "A" "T" "T" "A" "G" "T" "T" "G" "G" "T" "G"
## [25291] "T" "G" "G" "G" "A" "G" "A" "A" "C" "A" "T" "A" "A" "A" "A" "T" "T" "A"
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## [25651] "T" "G" "G" "G" "A" "G" "A" "A" "C" "T" "T" "G" "T" "T" "G" "T" "A" "G"
## [25669] "T" "G" "G" "G" "T" "G" "A" "T" "A" "T" "A" "T" "A" "C" "C" "T" "C" "G"
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## [25705] "C" "T" "A" "C" "A" "G" "T" "T" "A" "C" "A" "G" "T" "G" "A" "T" "T" "G"
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## [25759] "C" "A" "G" "T" "T" "A" "T" "A" "T" "T" "T" "C" "A" "T" "T" "G" "T" "T"
## [25777] "C" "A" "A" "A" "A" "G" "A" "C" "A" "C" "T" "C" "C" "T" "T" "G" "A" "A"
## [25795] "T" "C" "A" "A" "A" "G" "A" "A" "G" "G" "T" "C" "T" "C" "A" "A" "C" "A"
## [25813] "A" "C" "A" "T" "T" "G" "A" "A" "G" "A" "A" "G" "T" "T" "G" "T" "G" "T"
## [25831] "T" "C" "G" "A" "A" "A" "C" "T" "A" "A" "A" "A" "G" "A" "A" "T" "A" "G"
## [25849] "T" "A" "G" "A" "A" "C" "A" "A" "A" "A" "G" "A" "G" "A" "C" "A" "A" "G"
## [25867] "T" "T" "G" "A" "C" "T" "T" "C" "C" "A" "A" "A" "T" "G" "A" "A" "A" "G"

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## [26065] "T" "C" "G" "T" "G" "G" "T" "T" "T" "T" "T" "A" "T" "G" "G" "T" "C" "G"
## [26083] "A" "C" "T" "A" "T" "T" "A" "T" "T" "A" "C" "C" "A" "C" "G" "T" "T" "C"
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## [26263] "C" "A" "T" "T" "A" "G" "T" "A" "G" "T" "C" "T" "A" "A" "G" "T" "T" "G"
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## [26299] "T" "C" "G" "G" "A" "A" "T" "A" "A" "A" "T" "T" "C" "C" "G" "A" "G" "G"
## [26317] "A" "C" "G" "T" "T" "G" "T" "G" "G" "A" "G" "G" "A" "G" "G" "T" "A" "C"
## [26335] "A" "A" "A" "T" "T" "C" "C" "A" "T" "T" "T" "G" "T" "A" "A" "C" "C" "G"
## [26353] "A" "C" "G" "T" "A" "A" "T" "T" "G" "T" "T" "G" "G" "T" "G" "A" "C" "A"
## [26371] "A" "C" "C" "A" "A" "A" "A" "T" "G" "G" "A" "A" "A" "A" "A" "T" "C" "G"
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## [26443] "T" "G" "G" "T" "G" "A" "T" "T" "T" "T" "G" "A" "T" "A" "A" "G" "T" "G"
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## [26479] "A" "C" "C" "A" "C" "A" "T" "T" "C" "A" "A" "G" "G" "T" "A" "G" "A" "G"
## [26497] "A" "T" "T" "A" "A" "C" "T" "C" "C" "A" "A" "C" "T" "T" "G" "G" "A" "G"
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## [26533] "T" "C" "A" "A" "C" "A" "G" "A" "C" "T" "A" "A" "C" "A" "G" "G" "A" "G"
## [26551] "T" "G" "A" "C" "G" "G" "C" "A" "G" "A" "A" "C" "A" "A" "C" "T" "G" "G"
## [26569] "T" "T" "G" "T" "C" "A" "A" "A" "C" "A" "A" "C" "T" "G" "A" "T" "A" "G"
## [26587] "T" "A" "G" "T" "A" "G" "A" "T" "T" "G" "G" "T" "T" "A" "G" "A" "A" "G"
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## [26623] "A" "A" "C" "T" "T" "C" "T" "C" "G" "T" "C" "G" "T" "C" "T" "T" "C" "A"
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## [26731] "T" "G" "G" "A" "A" "G" "A" "A" "G" "A" "A" "G" "T" "A" "G" "G" "A" "G"
## [26749] "T" "A" "G" "A" "C" "C" "T" "C" "C" "C" "A" "T" "N" "T" "T" "T" "C" "T"
## [26767] "T" "G" "T" "T" "A" "T" "G" "T" "A" "T" "A" "C" "A" "C" "T" "T" "C" "G"
## [26785] "G" "T" "T" "A" "A" "A" "T" "T" "T" "G" "A" "G" "T" "G" "G" "T" "C" "T"
## [26803] "G" "A" "G" "T" "A" "G" "T" "T" "T" "A" "T" "T" "C" "A" "T" "C" "A" "T"
## [26821] "A" "C" "A" "T" "C" "G" "G" "T" "A" "T" "G" "A" "G" "G" "T" "G" "A" "G"
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## [27163] "G" "T" "T" "G" "T" "A" "T" "T" "C" "G" "G" "G" "C" "A" "A" "T" "T" "A"
## [27181] "T" "G" "T" "T" "T" "G" "A" "C" "C" "A" "C" "A" "T" "G" "G" "T" "T" "G"
## [27199] "G" "T" "T" "A" "C" "C" "T" "C" "G" "A" "A" "G" "T" "T" "G" "T" "C" "G"
## [27217] "A" "A" "G" "T" "G" "A" "T" "C" "A" "T" "C" "C" "A" "A" "C" "A" "A" "G"
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## [27253] "T" "C" "A" "A" "A" "A" "G" "T" "T" "C" "T" "G" "T" "T" "G" "A" "A" "G"
## [27271] "G" "A" "G" "A" "C" "A" "A" "T" "T" "G" "T" "G" "A" "A" "G" "A" "C" "A"
## [27289] "C" "C" "C" "T" "T" "C" "A" "C" "A" "A" "A" "G" "A" "G" "G" "G" "A" "G"
## [27307] "A" "T" "T" "C" "T" "T" "C" "T" "A" "T" "T" "A" "A" "A" "G" "A" "A" "A"
## [27325] "A" "C" "C" "C" "C" "G" "A" "A" "A" "A" "T" "C" "T" "C" "C" "G" "T" "A"
## [27343] "C" "T" "C" "A" "T" "C" "C" "G" "G" "T" "C" "A" "A" "A" "G" "A" "A" "G"
## [27361] "A" "G" "A" "C" "C" "T" "A" "A" "A" "T" "T" "G" "T" "G" "T" "G" "A" "A"
## [27379] "A" "G" "A" "C" "A" "T" "G" "T" "T" "A" "G" "G" "G" "A" "A" "A" "C" "T"
## [27397] "C" "A" "C" "G" "C" "A" "C" "T" "G" "T" "T" "T" "A" "C" "A" "A" "A" "G"
## [27415] "T" "G" "G" "A" "T" "T" "T" "A" "A" "G" "T" "T" "C" "C" "G" "A" "A" "A"
## [27433] "T" "T" "C" "A" "A" "A" "T" "C" "G" "A" "G" "G" "T" "G" "G" "T" "T" "A"
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## [27469] "G" "T" "T" "T" "C" "G" "G" "T" "T" "T" "T" "T" "A" "A" "A" "T" "A" "A"
## [27487] "A" "T" "G" "T" "T" "C" "G" "A" "A" "T" "T" "T" "C" "T" "T" "A" "C" "A"
## [27505] "G" "A" "C" "T" "T" "G" "T" "G" "A" "G" "A" "G" "G" "A" "A" "T" "T" "A"
## [27523] "A" "A" "G" "G" "A" "A" "A" "C" "G" "T" "G" "T" "C" "C" "A" "C" "T" "G"
## [27541] "T" "T" "A" "A" "A" "C" "A" "G" "G" "T" "G" "G" "C" "T" "G" "T" "T" "A"
## [27559] "A" "A" "G" "T" "G" "T" "T" "C" "G" "T" "G" "T" "C" "C" "A" "A" "C" "T"
## [27577] "C" "T" "A" "T" "T" "T" "A" "A" "A" "T" "T" "G" "T" "T" "A" "A" "A" "G"
## [27595] "G" "G" "T" "T" "G" "G" "C" "A" "G" "A" "G" "A" "T" "T" "C" "T" "T" "T"
## [27613] "G" "A" "G" "A" "T" "G" "T" "G" "G" "A" "A" "G" "G" "A" "A" "T" "T" "T"
## [27631] "G" "A" "A" "G" "A" "G" "A" "A" "G" "T" "T" "C" "G" "G" "T" "T" "A" "G"
## [27649] "T" "T" "C" "C" "T" "G" "C" "C" "C" "A" "A" "A" "C" "T" "C" "A" "A" "A"
## [27667] "A" "A" "G" "T" "A" "T" "T" "T" "G" "T" "C" "A" "C" "G" "G" "T" "T" "T"
## [27685] "C" "T" "A" "C" "A" "A" "T" "C" "A" "A" "T" "C" "G" "G" "T" "G" "A" "C"
## [27703] "G" "C" "T" "T" "C" "A" "G" "T" "T" "G" "A" "C" "T" "T" "G" "T" "T" "G"
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## [27739] "G" "T" "A" "A" "T" "G" "T" "T" "G" "A" "T" "C" "T" "A" "A" "C" "A" "A"
## [27757] "T" "C" "A" "T" "C" "G" "G" "T" "T" "T" "A" "G" "T" "C" "T" "A" "C" "A"
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## [27793] "C" "T" "C" "A" "G" "A" "G" "T" "C" "A" "C" "T" "T" "A" "T" "G" "A" "C"
## [27811] "A" "C" "T" "T" "T" "A" "A" "G" "G" "T" "A" "G" "A" "T" "C" "A" "T" "A"

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## [27901] "A" "T" "G" "T" "T" "G" "T" "G" "C" "T" "C" "G" "T" "C" "G" "G" "A" "G"
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## [27973] "C" "C" "G" "T" "G" "G" "A" "A" "A" "A" "A" "A" "T" "C" "G" "A" "A" "A"
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## [28009] "T" "A" "A" "T" "G" "G" "T" "G" "T" "C" "C" "T" "A" "A" "G" "T" "T" "G"
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## [28045] "T" "A" "T" "T" "A" "G" "G" "T" "T" "T" "G" "G" "A" "A" "A" "G" "T" "G"
## [28063] "T" "C" "A" "A" "A" "G" "G" "T" "G" "T" "T" "T" "T" "C" "G" "T" "G" "A"
## [28081] "A" "C" "A" "C" "C" "T" "T" "C" "G" "T" "C" "T" "T" "T" "T" "T" "C" "T"
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## [28495] "T" "C" "A" "C" "G" "G" "T" "G" "T" "T" "T" "T" "A" "A" "G" "C" "G" "T"
## [28513] "T" "C" "A" "C" "C" "G" "A" "A" "A" "T" "T" "G" "T" "T" "T" "T" "A" "G"
## [28531] "C" "G" "G" "G" "C" "A" "G" "A" "C" "G" "G" "T" "A" "C" "T" "T" "C" "A"
## [28549] "A" "A" "G" "T" "G" "G" "T" "G" "T" "T" "A" "C" "T" "A" "G" "T" "G" "T"
## [28567] "G" "A" "A" "G" "T" "A" "C" "T" "C" "T" "C" "A" "A" "C" "T" "T" "T" "C"
## [28585] "C" "G" "T" "G" "T" "A" "A" "A" "C" "C" "A" "A" "C" "G" "T" "A" "A" "G"
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## [28639] "T" "G" "G" "G" "T" "A" "T" "T" "T" "C" "G" "G" "T" "A" "G" "T" "T" "C"
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## [28675] "A" "C" "C" "A" "A" "C" "T" "T" "A" "T" "C" "A" "G" "A" "A" "C" "T" "A"
## [28693] "A" "T" "A" "C" "C" "T" "T" "A" "A" "A" "T" "T" "C" "C" "C" "T" "T" "T"
## [28711] "A" "T" "G" "T" "T" "T" "T" "A" "A" "A" "C" "C" "T" "G" "T" "A" "A" "G"
## [28729] "G" "G" "G" "T" "A" "A" "C" "T" "T" "C" "C" "A" "C" "A" "G" "T" "T" "T"
## [28747] "A" "A" "A" "G" "A" "A" "A" "C" "G" "G" "T" "T" "A" "A" "A" "T" "T" "A"
## [28765] "A" "A" "G" "T" "T" "T" "T" "C" "C" "A" "C" "A" "G" "A" "C" "G" "T" "T"
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## [28837] "T" "G" "C" "C" "G" "T" "C" "G" "T" "C" "A" "T" "A" "T" "G" "T" "G" "G"
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## [28927] "A" "A" "A" "T" "T" "A" "C" "G" "T" "G" "A" "G" "T" "T" "C" "T" "C" "C"
## [28945] "C" "A" "T" "C" "G" "G" "T" "A" "G" "T" "C" "C" "C" "G" "G" "T" "G" "T"
## [28963] "C" "T" "T" "C" "A" "A" "C" "A" "A" "T" "A" "G" "C" "T" "G" "T" "A" "T"
## [28981] "C" "G" "C" "T" "C" "A" "C" "A" "T" "A" "C" "G" "G" "G" "G" "A" "G" "G"
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## [29503] "G" "A" "G" "C" "A" "A" "C" "T" "T" "T" "G" "G" "T" "C" "C" "C" "T" "G"
## [29521] "T" "T" "C" "C" "G" "A" "G" "A" "G" "G" "T" "A" "G" "A" "A" "T" "G" "G"
## [29539] "A" "A" "A" "G" "C" "C" "A" "G" "T" "G" "T" "G" "G" "G" "C" "C" "T" "G"
## [29557] "T" "T" "T" "T" "G" "G" "A" "T" "C" "T" "A" "C" "A" "C" "G" "A" "C" "T"
## [29575] "A" "C" "T" "A" "G" "C" "C" "G" "A" "C" "G" "T" "T" "G" "T" "G" "C" "C"
## [29593] "T" "G" "C" "T" "T" "T" "G" "G" "C" "A" "T" "T" "C" "G" "T" "C" "G" "G"
## [29611] "A" "C" "G" "T" "C" "T" "T" "C" "T" "A" "T" "C" "T" "G" "C" "T" "C" "A"
## [29629] "A" "T" "G" "A" "G" "C" "A" "C" "A" "G" "G" "A" "C" "A" "G" "T" "T" "G"
## [29647] "C" "T" "G" "T" "C" "A" "T" "T" "A" "A" "T" "C" "A" "A" "T" "A" "A" "T"
## [29665] "T" "A" "A" "T" "A" "T" "G" "A" "C" "G" "C" "A" "C" "T" "C" "A" "C" "G"
## [29683] "T" "G" "A" "T" "T" "C" "G" "T" "A" "C" "G" "T" "C" "G" "G" "C" "T" "C"
## [29701] "A" "C" "T" "G" "T" "C" "G" "G" "T" "G" "T" "G" "T" "C" "T" "A" "A" "A"
## [29719] "A" "T" "T" "T" "C" "A" "A" "G" "C" "A" "A" "A" "T" "C" "T" "C" "T" "T"
## [29737] "G" "T" "C" "T" "A" "G" "A"

```

#ACTUAL

```
reverse(unlist(sequin::getSequence(Actual)))
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##      [1] "C" "C" "A" "C" "T" "T" "T" "T" "A" "C" "A" "C" "C" "A" "C" "C" "G" "A"
##     [19] "G" "A" "A" "A" "G" "T" "T" "C" "A" "G" "G" "A" "G" "G" "G" "A" "T" "T"
##     [37] "A" "C" "A" "A" "T" "G" "T" "G" "T" "G" "A" "C" "T" "A" "A" "T" "T" "T"
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##     [91] "A" "C" "A" "C" "G" "A" "T" "A" "C" "A" "T" "C" "A" "A" "T" "G" "C" "T"
##    [109] "C" "T" "T" "A" "A" "G" "T" "A" "A" "G" "A" "C" "G" "T" "G" "T" "T" "C"
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##    [145] "T" "T" "G" "C" "C" "T" "T" "T" "T" "C" "G" "C" "T" "T" "T" "T" "G" "C"
##    [163] "A" "A" "A" "T" "A" "T" "A" "T" "C" "G" "G" "G" "T" "A" "G" "A" "C" "G"
##    [181] "G" "A" "A" "C" "A" "C" "A" "C" "C" "A" "G" "A" "C" "G" "T" "A" "C" "T"
##    [199] "C" "A" "A" "A" "T" "C" "C" "G" "G" "A" "C" "T" "C" "A" "A" "C" "T" "C"
##    [217] "A" "G" "T" "C" "G" "T" "G" "C" "C" "G" "A" "G" "T" "A" "C" "C" "T" "A"
##    [235] "A" "C" "A" "A" "C" "G" "T" "T" "A" "A" "C" "A" "A" "A" "C" "C" "T" "C"
##    [253] "T" "T" "T" "A" "G" "T" "A" "G" "G" "T" "T" "T" "A" "G" "A" "C" "G" "T"
##    [271] "C" "G" "T" "C" "C" "T" "T" "C" "T" "T" "C" "T" "C" "A" "G" "T" "G" "T"
##    [289] "C" "A" "A" "A" "C" "G" "A" "C" "A" "A" "A" "G" "A" "A" "G" "A" "C" "A"
##    [307] "G" "A" "G" "A" "C" "G" "C" "C" "A" "T" "T" "C" "C" "G" "A" "A" "C" "T"
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##    [343] "A" "A" "A" "A" "A" "C" "A" "G" "G" "A" "A" "A" "A" "A" "A" "T" "C" "C" "G"
##    [361] "A" "G" "A" "C" "A" "A" "C" "C" "A" "C" "C" "C" "T" "T" "A" "C" "A" "A"
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##    [433] "A" "G" "A" "A" "A" "C" "A" "G" "T" "A" "G" "G" "T" "T" "A" "A" "A" "C"
##    [451] "T" "A" "C" "C" "G" "T" "G" "G" "A" "C" "A" "C" "A" "T" "C" "C" "A" "G"
##    [469] "T" "T" "G" "G" "T" "G" "C" "A" "A" "G" "G" "G" "C" "T" "T" "C" "C" "A"
##    [487] "C" "A" "C" "T" "G" "A" "A" "G" "G" "T" "A" "C" "G" "G" "T" "T" "A" "C"
##    [505] "G" "C" "G" "C" "T" "G" "T" "A" "A" "G" "G" "C" "T" "T" "C" "T" "T" "G"
##    [523] "C" "G" "A" "C" "T" "T" "C" "G" "C" "G" "A" "C" "C" "C" "C" "C" "G" "T"
##    [541] "T" "T" "A" "A" "C" "A" "C" "G" "T" "T" "A" "A" "A" "C" "G" "C" "C" "G"
##    [559] "G" "T" "T" "A" "C" "A" "A" "A" "C" "A" "T" "T" "A" "G" "T" "C" "A" "A"
##    [577] "G" "G" "A" "A" "C" "A" "G" "A" "C" "T" "A" "A" "T" "C" "A" "A" "G" "G"
##    [595] "A" "C" "C" "A" "G" "G" "G" "G" "T" "T" "T" "T" "A" "A" "A" "G" "G" "A"
##    [613] "A" "C" "C" "C" "A" "A" "A" "C" "A" "A" "G" "A" "C" "C" "T" "G" "G" "T"
##    [631] "G" "C" "A" "G" "A" "C" "G" "G" "C" "T" "T" "T" "C" "G" "A" "A" "C" "A"
##    [649] "C" "A" "A" "T" "G" "T" "A" "A" "C" "A" "T" "A" "C" "G" "A" "A" "A" "T"
##    [667] "C" "A" "C" "C" "G" "T" "C" "A" "T" "G" "C" "A" "A" "A" "A" "A" "C" "G"
##    [685] "G" "C" "T" "C" "C" "G" "A" "A" "G" "A" "A" "T" "C" "T" "T" "C" "G" "G"
##    [703] "A" "G" "T" "C" "G" "T" "C" "G" "T" "C" "T" "A" "A" "A" "G" "A" "A" "T"
##    [721] "C" "A" "C" "T" "G" "T" "C" "A" "A" "A" "C" "C" "G" "G" "A" "A" "C" "A"
##    [739] "A" "C" "A" "A" "C" "A" "A" "C" "C" "G" "G" "A" "A" "A" "T" "G" "G" "T"
##    [757] "C" "T" "G" "T" "A" "A" "A" "A" "C" "G" "A" "G" "A" "G" "T" "T" "C" "G"
##    [775] "A" "C" "C" "A" "A" "G" "T" "T" "A" "G" "A" "C" "A" "G" "T" "T" "C" "G"
##    [793] "T" "C" "G" "T" "C" "G" "T" "T" "T" "C" "G" "T" "T" "C" "T" "C" "G" "T"
##    [811] "C" "G" "T" "A" "G" "T" "G" "G" "C" "G" "G" "T" "A" "A" "C" "G" "G" "T"
##    [829] "C" "G" "G" "T" "A" "A" "G" "A" "T" "C" "G" "T" "C" "C" "T" "C" "T" "T"
##    [847] "C" "A" "A" "G" "C" "A" "A" "A" "T" "G" "A" "C" "G" "A" "C" "G" "G" "A"
##    [865] "C" "C" "T" "C" "A" "A" "C" "T" "T" "A" "A" "A" "G" "A" "A" "C" "T" "T"
##    [883] "G" "A" "C" "A" "A" "C" "G" "C" "T" "G" "A" "T" "G" "C" "A" "C" "T" "A"
##    [901] "C" "T" "C" "C" "T" "T" "G" "C" "T" "C" "T" "T" "C" "T" "C" "C" "G" "A"
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## [919] "A" "C" "T" "G" "A" "C" "G" "G" "C" "G" "G" "A" "G" "A" "C" "G" "A" "G"
## [937] "G" "G" "A" "A" "G" "A" "C" "G" "C" "A" "T" "C" "T" "T" "C" "G" "G" "A"
## [955] "A" "A" "A" "C" "C" "G" "T" "T" "A" "C" "A" "A" "C" "A" "A" "G" "G" "A"
## [973] "A" "C" "T" "C" "C" "T" "T" "C" "A" "A" "C" "A" "T" "C" "G" "T" "G" "C"
## [991] "T" "A" "A" "C" "G" "T" "C" "G" "T" "A" "A" "C" "A" "A" "T" "C" "G" "T"
## [1009] "C" "C" "T" "A" "A" "C" "G" "C" "C" "C" "A" "C" "G" "G" "T" "T" "A" "C"
## [1027] "A" "C" "T" "A" "G" "A" "A" "A" "A" "C" "C" "A" "C" "A" "T" "A" "A" "G"
## [1045] "T" "T" "C" "C" "G" "A" "G" "G" "G" "A" "G" "T" "C" "A" "A" "C" "G" "T"
## [1063] "T" "G" "G" "G" "T" "A" "T" "A" "C" "T" "A" "C" "G" "G" "C" "A" "G" "A"
## [1081] "A" "A" "C" "A" "A" "T" "C" "G" "T" "G" "G" "T" "A" "T" "C" "C" "C" "T"
## [1099] "T" "C" "A" "G" "G" "T" "C" "G" "A" "A" "G" "A" "C" "C" "G" "G" "G" "T"
## [1117] "C" "A" "A" "G" "G" "A" "T" "C" "C" "A" "T" "C" "A" "T" "C" "T" "T" "T"
## [1135] "A" "T" "G" "G" "T" "A" "G" "A" "A" "C" "C" "T" "G" "A" "C" "T" "C" "T"
## [1153] "A" "G" "A" "A" "A" "G" "T" "A" "A" "A" "A" "T" "G" "G" "C" "A" "G" "T"
## [1171] "G" "G" "T" "G" "G" "T" "G" "C" "T" "T" "A" "A" "G" "C" "A" "G" "A" "C"
## [1189] "C" "A" "T" "C" "G" "A" "G" "A" "A" "G" "C" "C" "A" "T" "C" "A" "T" "C"
## [1207] "G" "G" "T" "T" "A" "A" "A" "C" "C" "A" "G" "T" "A" "G" "A" "C" "C" "T"
## [1225] "G" "A" "C" "G" "A" "T" "A" "A" "C" "C" "A" "C" "A" "A" "T" "T" "A" "A"
## [1243] "C" "C" "T" "T" "G" "C" "G" "G" "A" "A" "C" "A" "G" "G" "A" "G" "C" "T"
## [1261] "C" "C" "C" "T" "T" "A" "A" "A" "T" "T" "C" "C" "A" "G" "A" "A" "G" "G"
## [1279] "A" "A" "C" "G" "G" "T" "A" "C" "A" "A" "C" "T" "C" "A" "C" "T" "C" "T"
## [1297] "C" "G" "C" "C" "A" "C" "T" "T" "G" "G" "T" "T" "C" "T" "G" "C" "G" "T"
## [1315] "C" "A" "T" "A" "A" "T" "A" "A" "C" "C" "C" "A" "T" "T" "T" "G" "G" "A"
## [1333] "A" "C" "C" "C" "C" "G" "G" "C" "T" "G" "C" "A" "A" "C" "A" "A" "A" "A"
## [1351] "C" "T" "A" "G" "C" "G" "C" "G" "G" "G" "G" "T" "G" "G" "T" "A" "A" "G"
## [1369] "A" "C" "C" "A" "A" "T" "G" "A" "C" "G" "G" "T" "C" "A" "A" "C" "T" "T"
## [1387] "A" "G" "A" "C" "T" "C" "C" "C" "A" "G" "G" "T" "G" "G" "T" "T" "T" "G"
## [1405] "C" "A" "T" "T" "A" "C" "G" "C" "C" "T" "C" "A" "C" "G" "T" "A" "A" "A"
## [1423] "G" "C" "G" "A" "C" "T" "A" "A" "A" "A" "C" "C" "C" "C" "A" "G" "G" "T"
## [1441] "A" "A" "T" "A" "G" "T" "C" "T" "G" "T" "A" "A" "A" "T" "T" "C" "A" "A"
## [1459] "A" "C" "A" "A" "G" "C" "A" "A" "A" "T" "C" "T" "A" "C" "T" "T" "T" "A"
## [1477] "G" "A" "T" "T" "T" "T" "G" "T" "T" "G" "T" "G" "C" "T" "T" "G" "C" "A"
## [1495] "G" "T" "A" "C" "T" "A" "T" "G" "A" "G" "A" "T" "T" "T" "T" "T" "C" "A"
## [1513] "G" "A" "A" "G" "T" "A" "T" "C" "T" "T" "G" "C" "T" "T" "G" "T" "T" "G"
## [1531] "C" "G" "T" "G" "A" "T" "G" "T" "T" "C" "T" "G" "A" "T" "G" "G" "G" "T"
## [1549] "T" "A" "A" "A" "T" "C" "C" "A" "A" "G" "G" "A" "C" "C" "G" "T" "T" "A"
## [1567] "A" "T" "T" "A" "A" "C" "A" "T" "T" "T" "T" "C" "C" "A" "T" "T" "T" "G"
## [1585] "T" "C" "C" "T" "T" "T" "G" "A" "C" "A" "T" "A" "T" "T" "A" "A" "T" "G"
## [1603] "G" "C" "T" "A" "T" "A" "G" "C" "T" "A" "C" "A" "T" "G" "A" "C" "T" "T"
## [1621] "A" "C" "C" "C" "A" "C" "T" "A" "A" "A" "T" "C" "T" "T" "G" "G" "T" "C"
## [1639] "G" "G" "A" "G" "T" "A" "G" "G" "T" "G" "C" "G" "T" "G" "T" "T" "A" "A"
## [1657] "G" "T" "T" "A" "A" "T" "T" "T" "C" "C" "A" "C" "G" "A" "C" "T" "A" "A"
## [1675] "A" "A" "G" "A" "T" "C" "G" "A" "G" "G" "A" "T" "G" "A" "G" "A" "T" "T"
## [1693] "A" "T" "A" "T" "G" "G" "T" "A" "A" "A" "T" "C" "T" "T" "A" "T" "C" "T"
## [1711] "T" "C" "A" "C" "T" "T" "A" "T" "C" "C" "T" "G" "T" "G" "C" "C" "C" "A"
## [1729] "G" "T" "A" "G" "T" "T" "G" "A" "T" "G" "T" "A" "T" "A" "C" "C" "A" "A"
## [1747] "C" "T" "A" "C" "A" "A" "C" "T" "C" "A" "T" "G" "T" "A" "C" "T" "G" "A"
## [1765] "C" "A" "T" "T" "T" "G" "A" "T" "G" "T" "A" "A" "G" "A" "A" "C" "C" "A"
## [1783] "C" "T" "T" "T" "A" "C" "G" "T" "C" "G" "A" "T" "G" "T" "C" "A" "A" "C"
## [1801] "A" "C" "T" "A" "C" "T" "A" "A" "G" "T" "A" "T" "T" "C" "T" "T" "T" "T"
## [1819] "G" "T" "T" "C" "T" "T" "T" "A" "A" "A" "G" "T" "A" "C" "A" "A" "G" "C"
## [1837] "A" "A" "A" "T" "C" "C" "G" "C" "A" "C" "T" "G" "T" "T" "C" "A" "A" "A"
## [1855] "G" "T" "A" "A" "T" "A" "C" "T" "A" "G" "A" "A" "C" "G" "T" "C" "A" "A"
## [1873] "G" "T" "T" "C" "A" "C" "T" "C" "T" "T" "G" "G" "T" "T" "T" "T" "C" "T"

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## [1891] "A" "T" "T" "A" "T" "T" "C" "G" "T" "A" "T" "T" "A" "A" "T" "T" "T" "T"
## [1909] "G" "T" "T" "C" "C" "T" "T" "A" "T" "T" "G" "T" "C" "T" "T" "T" "C" "C"
## [1927] "G" "A" "T" "T" "T" "T" "T" "C" "G" "T" "G" "T" "T" "T" "A" "T" "C" "T"
## [1945] "T" "C" "A" "G" "T" "T" "A" "A" "T" "T" "A" "C" "T" "T" "T" "C" "A" "A"
## [1963] "G" "T" "T" "A" "G" "T" "A" "A" "G" "A" "C" "A" "G" "A" "A" "A" "G" "A"
## [1981] "A" "A" "A" "C" "T" "C" "A" "C" "A" "C" "T" "T" "C" "G" "T" "T" "T" "C"
## [1999] "A" "C" "A" "A" "T" "A" "T" "T" "T" "G" "T" "G" "A" "T" "A" "A" "C" "G"
## [2017] "G" "C" "G" "T" "T" "G" "T" "T" "A" "T" "T" "C" "T" "T" "T" "T" "T" "A"
## [2035] "A" "C" "C" "T" "C" "T" "C" "A" "T" "T" "T" "C" "A" "A" "G" "A" "A" "C"
## [2053] "T" "T" "G" "A" "A" "G" "G" "A" "G" "A" "A" "C" "A" "G" "A" "C" "T" "A"
## [2071] "C" "T" "T" "G" "T" "C" "A" "A" "A" "T" "C" "C" "A" "C" "T" "T" "T" "G"
## [2089] "A" "C" "T" "A" "G" "A" "C" "C" "G" "T" "G" "C" "A" "T" "T" "G" "A" "C"
## [2107] "T" "A" "T" "C" "T" "G" "C" "A" "C" "A" "A" "A" "A" "T" "G" "C" "G" "G"
## [2125] "C" "A" "G" "T" "C" "C" "T" "G" "T" "T" "C" "G" "T" "T" "T" "T" "C" "G"
## [2143] "T" "T" "T" "A" "A" "C" "T" "C" "A" "C" "G" "A" "T" "T" "T" "C" "G" "T"
## [2161] "T" "C" "A" "G" "T" "C" "A" "C" "G" "T" "T" "T" "A" "A" "A" "C" "A" "A"
## [2179] "T" "A" "G" "T" "C" "G" "A" "T" "C" "T" "C" "C" "T" "A" "C" "T" "T" "T"
## [2197] "A" "C" "C" "A" "C" "T" "T" "A" "A" "C" "G" "G" "G" "A" "G" "C" "A" "T"
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## [2233] "A" "A" "G" "A" "A" "A" "A" "T" "T" "T" "T" "C" "A" "T" "G" "A" "C" "A"
## [2251] "A" "C" "A" "T" "G" "G" "A" "G" "A" "T" "T" "G" "T" "G" "T" "G" "A" "G"
## [2269] "A" "A" "C" "C" "A" "T" "C" "A" "C" "T" "A" "T" "T" "T" "C" "G" "A" "G"
## [2287] "T" "G" "T" "T" "C" "A" "T" "C" "G" "C" "T" "C" "A" "C" "A" "A" "T" "A"
## [2305] "G" "T" "C" "A" "C" "G" "G" "T" "T" "C" "T" "T" "T" "T" "C" "T" "T" "A"
## [2323] "T" "T" "A" "A" "A" "A" "G" "T" "A" "C" "A" "A" "G" "C" "A" "A" "A" "T"
## [2341] "C" "T" "C" "T" "T" "A" "G" "A" "G" "G" "T" "A" "A" "C" "C" "A" "A" "C"
## [2359] "G" "A" "G" "A" "A" "G" "T" "A" "G" "A" "T" "T" "A" "A" "C" "T" "C" "T"
## [2377] "T" "A" "T" "A" "A" "A" "T" "A" "A" "G" "A" "G" "T" "C" "A" "A" "T" "C"
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## [2485] "G" "A" "G" "A" "C" "G" "A" "T" "A" "T" "C" "A" "T" "T" "G" "G" "A" "C"
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## [2575] "C" "C" "A" "G" "A" "C" "A" "C" "A" "A" "A" "T" "T" "A" "A" "A" "T" "A"
## [2593] "T" "C" "A" "A" "C" "G" "G" "T" "T" "A" "G" "G" "A" "C" "A" "T" "C" "G"
## [2611] "C" "T" "G" "A" "C" "A" "T" "A" "C" "G" "T" "C" "G" "T" "T" "T" "T" "G"
## [2629] "G" "A" "C" "T" "C" "A" "G" "T" "G" "G" "A" "C" "G" "A" "T" "G" "T" "G"
## [2647] "C" "G" "A" "C" "G" "C" "T" "T" "C" "G" "A" "G" "G" "G" "T" "T" "A" "A"
## [2665] "A" "C" "A" "T" "T" "A" "T" "T" "C" "T" "T" "T" "C" "G" "C" "A" "A" "G"
## [2683] "C" "A" "C" "T" "A" "C" "A" "T" "C" "G" "T" "T" "G" "T" "C" "A" "C" "T"
## [2701] "A" "A" "A" "G" "A" "A" "A" "T" "C" "C" "G" "T" "C" "C" "A" "G" "G" "A"
## [2719] "A" "C" "T" "A" "C" "A" "G" "T" "G" "T" "C" "G" "C" "A" "G" "G" "A" "T"
## [2737] "C" "T" "A" "C" "C" "A" "C" "A" "G" "G" "T" "C" "G" "T" "T" "A" "T" "G"
## [2755] "C" "T" "T" "C" "T" "A" "C" "A" "G" "G" "T" "G" "C" "T" "T" "C" "C" "T"
## [2773] "A" "G" "T" "G" "T" "C" "G" "A" "G" "G" "C" "T" "A" "A" "T" "G" "C" "T"
## [2791] "C" "A" "A" "G" "T" "G" "A" "A" "A" "G" "A" "T" "C" "T" "T" "C" "G" "C"
## [2809] "C" "A" "G" "A" "C" "C" "A" "G" "T" "C" "T" "T" "A" "T" "C" "A" "C" "G"
## [2827] "G" "T" "A" "C" "C" "T" "C" "A" "C" "C" "G" "T" "G" "C" "A" "A" "C" "T"
## [2845] "C" "T" "T" "C" "T" "T" "A" "C" "A" "A" "T" "C" "A" "A" "A" "G" "A" "C"

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## [2863] "C" "T" "A" "A" "T" "T" "T" "A" "C" "T" "G" "G" "T" "G" "T" "A" "C" "C"
## [2881] "T" "T" "G" "C" "G" "C" "A" "T" "G" "C" "G" "C" "G" "T" "T" "T" "G" "T"
## [2899] "C" "A" "G" "A" "C" "T" "T" "T" "C" "T" "T" "C" "G" "T" "T" "A" "C" "T"
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## [2971] "G" "C" "C" "A" "C" "T" "A" "G" "G" "T" "T" "A" "A" "A" "T" "A" "A" "G"
## [2989] "A" "C" "A" "T" "T" "T" "G" "T" "C" "G" "T" "C" "G" "T" "T" "C" "G" "T"
## [3007] "G" "T" "T" "T" "T" "G" "T" "T" "C" "A" "A" "T" "T" "T" "C" "A" "A" "T"
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## [3043] "C" "C" "T" "T" "T" "T" "A" "A" "T" "T" "G" "A" "A" "T" "T" "A" "A" "T"
## [3061] "A" "T" "A" "T" "G" "T" "T" "T" "T" "T" "G" "G" "A" "T" "A" "A" "G" "G"
## [3079] "A" "C" "A" "A" "C" "C" "G" "T" "A" "T" "C" "C" "G" "T" "T" "T" "A" "A"
## [3097] "C" "A" "T" "C" "T" "T" "C" "T" "G" "T" "T" "T" "A" "G" "G" "T" "A" "C"
## [3115] "A" "T" "T" "C" "C" "T" "T" "A" "T" "C" "C" "T" "T" "T" "G" "G" "A" "T"
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## [3151] "G" "T" "T" "C" "C" "T" "C" "G" "A" "A" "A" "A" "A" "T" "T" "C" "G" "A"
## [3169] "G" "A" "A" "G" "T" "T" "G" "C" "C" "A" "T" "T" "A" "T" "C" "A" "T" "G"
## [3187] "G" "C" "A" "A" "C" "C" "T" "T" "A" "G" "A" "C" "G" "G" "T" "A" "C" "C"
## [3205] "G" "A" "T" "T" "T" "T" "A" "A" "T" "T" "T" "C" "A" "A" "G" "G" "T" "T"
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## [3295] "T" "T" "G" "T" "G" "C" "T" "C" "T" "C" "A" "T" "T" "T" "G" "C" "A" "T"
## [3313] "T" "T" "T" "T" "C" "T" "T" "C" "C" "A" "A" "A" "A" "T" "G" "T" "T" "C"
## [3331] "T" "G" "A" "G" "T" "G" "C" "A" "A" "T" "T" "G" "T" "T" "A" "T" "A" "A"
## [3349] "C" "G" "T" "C" "G" "T" "C" "A" "T" "G" "C" "G" "T" "G" "T" "G" "T" "T"
## [3367] "A" "G" "C" "T" "T" "C" "G" "C" "G" "T" "C" "A" "T" "T" "C" "C" "T" "A"
## [3385] "C" "C" "G" "A" "T" "C" "A" "C" "A" "T" "T" "G" "A" "T" "C" "G" "T" "T"
## [3403] "C" "T" "T" "A" "T" "G" "G" "T" "G" "C" "T" "T" "T" "C" "G" "T" "T" "C"
## [3421] "T" "T" "T" "T" "T" "C" "T" "T" "C" "A" "T" "G" "C" "G" "A" "T" "A" "A"
## [3439] "T" "T" "G" "A" "T" "A" "A" "T" "T" "G" "C" "G" "T" "G" "G" "A" "T" "A"
## [3457] "G" "A" "G" "A" "A" "G" "G" "C" "T" "T" "T" "G" "C" "T" "T" "A" "C" "T"
## [3475] "C" "A" "T" "G" "T" "A" "T" "T" "C" "A" "A" "G" "C" "A" "T" "G" "A" "G"
## [3493] "T" "A" "G" "T" "C" "G" "A" "A" "C" "A" "C" "G" "A" "A" "T" "G" "T" "T"
## [3511] "T" "C" "C" "G" "T" "G" "C" "G" "A" "T" "C" "A" "T" "C" "A" "G" "C" "A"
## [3529] "G" "C" "A" "G" "C" "C" "A" "A" "G" "T" "A" "G" "T" "A" "T" "T" "T" "A"
## [3547] "A" "C" "C" "A" "A" "G" "G" "T" "A" "A" "T" "G" "A" "C" "C" "T" "A" "A"
## [3565] "T" "T" "G" "T" "T" "G" "A" "G" "G" "C" "C" "T" "A" "C" "T" "T" "G" "G"
## [3583] "C" "A" "G" "C" "T" "A" "A" "C" "A" "C" "A" "C" "T" "T" "A" "A" "A" "C"
## [3601] "C" "T" "G" "T" "A" "C" "A" "A" "G" "A" "A" "G" "T" "C" "C" "G" "A" "G"
## [3619] "T" "A" "G" "T" "T" "G" "T" "T" "A" "A" "A" "A" "T" "A" "A" "C" "A" "T"
## [3637] "C" "T" "A" "C" "T" "T" "C" "T" "T" "C" "C" "A" "T" "T" "G" "T" "A" "C"
## [3655] "A" "A" "G" "T" "T" "G" "T" "G" "G" "T" "T" "A" "C" "A" "G" "A" "C" "A"
## [3673] "T" "G" "A" "G" "T" "T" "A" "A" "C" "T" "C" "A" "A" "C" "T" "C" "A" "T"
## [3691] "G" "T" "C" "G" "A" "C" "C" "A" "T" "T" "A" "T" "C" "A" "G" "A" "C" "T"
## [3709] "T" "C" "A" "C" "T" "T" "C" "A" "T" "T" "G" "A" "C" "A" "C" "A" "T" "T"
## [3727] "A" "T" "G" "T" "T" "G" "T" "G" "T" "C" "A" "G" "A" "A" "A" "A" "T" "G"
## [3745] "A" "G" "G" "T" "C" "T" "A" "A" "G" "G" "G" "T" "A" "A" "A" "A" "A" "G"
## [3763] "T" "C" "A" "T" "A" "T" "T" "G" "G" "T" "G" "G" "T" "T" "A" "G" "A" "C"
## [3781] "C" "A" "T" "C" "A" "G" "T" "A" "C" "A" "A" "G" "T" "C" "T" "T" "T" "A"
## [3799] "T" "C" "C" "T" "G" "A" "A" "C" "A" "A" "C" "A" "C" "G" "G" "T" "A" "G"
## [3817] "T" "G" "G" "A" "C" "T" "T" "C" "A" "T" "T" "A" "C" "T" "G" "T" "T" "A"

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## [3835] "A" "C" "T" "T" "C" "T" "T" "C" "A" "A" "T" "G" "T" "G" "A" "T" "A" "A"
## [3853] "C" "A" "T" "T" "C" "C" "A" "T" "A" "T" "G" "T" "T" "A" "T" "C" "A" "G"
## [3871] "C" "A" "T" "T" "G" "T" "T" "A" "A" "T" "C" "A" "T" "A" "C" "G" "G" "T"
## [3889] "C" "G" "T" "T" "T" "C" "T" "T" "T" "T" "A" "T" "C" "A" "A" "C" "C" "G"
## [3907] "T" "A" "G" "T" "A" "T" "T" "T" "C" "A" "T" "T" "A" "C" "C" "C" "A" "A"
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## [3943] "C" "G" "T" "T" "T" "C" "G" "G" "T" "T" "T" "C" "G" "G" "A" "G" "T" "A"
## [3961] "A" "T" "A" "A" "T" "A" "A" "G" "A" "A" "T" "G" "T" "T" "T" "C" "A" "A"
## [3979] "A" "T" "A" "T" "G" "A" "G" "A" "C" "G" "T" "T" "C" "T" "T" "C" "A" "T"
## [3997] "C" "T" "G" "A" "T" "T" "T" "C" "G" "T" "A" "T" "T" "T" "C" "T" "A" "T"
## [4015] "C" "T" "C" "T" "T" "T" "T" "C" "C" "C" "C" "G" "A" "A" "G" "T" "T" "C"
## [4033] "C" "G" "G" "T" "C" "G" "T" "C" "G" "T" "T" "G" "C" "T" "C" "G" "T" "T"
## [4051] "T" "T" "C" "C" "A" "C" "A" "C" "T" "C" "A" "T" "T" "T" "G" "A" "C" "A"
## [4069] "A" "T" "G" "T" "T" "T" "G" "T" "T" "G" "T" "T" "G" "T" "C" "G" "T" "T"
## [4087] "C" "A" "A" "C" "G" "T" "T" "T" "G" "T" "T" "T" "C" "A" "C" "T" "T" "G"
## [4105] "T" "G" "G" "G" "A" "A" "C" "C" "T" "C" "T" "C" "A" "C" "G" "A" "T" "C"
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## [4213] "A" "C" "T" "C" "C" "G" "A" "A" "C" "A" "T" "A" "G" "C" "C" "A" "T" "A"
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## [4249] "T" "T" "T" "T" "A" "G" "A" "C" "T" "T" "C" "C" "T" "C" "A" "T" "C" "G"
## [4267] "T" "A" "G" "G" "A" "A" "C" "T" "A" "A" "A" "G" "T" "G" "G" "A" "A" "C"
## [4285] "G" "A" "A" "G" "T" "T" "T" "C" "A" "A" "T" "G" "T" "C" "A" "A" "G" "G"
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## [4357] "A" "A" "C" "T" "G" "A" "G" "G" "A" "A" "A" "C" "T" "C" "G" "T" "G" "A"
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## [4393] "A" "G" "T" "T" "T" "A" "A" "A" "C" "G" "T" "C" "G" "T" "C" "C" "T" "A"
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## [4429] "A" "A" "C" "T" "C" "T" "G" "T" "T" "G" "A" "T" "G" "T" "C" "G" "T" "T"
## [4447] "G" "A" "C" "C" "A" "G" "T" "A" "T" "G" "T" "C" "G" "T" "T" "T" "C" "G"
## [4465] "T" "A" "T" "T" "A" "A" "C" "A" "G" "T" "G" "G" "T" "A" "A" "T" "G" "A"
## [4483] "T" "A" "C" "C" "G" "T" "T" "A" "G" "T" "T" "C" "G" "G" "T" "C" "G" "A"
## [4501] "T" "A" "T" "T" "T" "T" "G" "G" "A" "T" "C" "G" "G" "T" "T" "T" "A" "C"
## [4519] "A" "T" "G" "G" "T" "A" "C" "C" "G" "G" "T" "A" "A" "A" "A" "T" "A" "T"
## [4537] "A" "T" "G" "A" "C" "G" "A" "G" "T" "A" "T" "G" "A" "A" "A" "G" "G" "T"
## [4555] "T" "C" "A" "A" "G" "A" "A" "C" "C" "T" "C" "T" "A" "G" "C" "T" "A" "C"
## [4573] "T" "C" "T" "C" "T" "A" "A" "G" "T" "A" "A" "A" "T" "T" "T" "A" "A" "G"
## [4591] "A" "A" "C" "C" "G" "T" "T" "G" "G" "A" "G" "T" "A" "A" "C" "T" "C" "C"
## [4609] "G" "C" "C" "A" "G" "T" "T" "A" "A" "A" "G" "A" "A" "A" "A" "A" "C" "T"
## [4627] "T" "A" "C" "A" "A" "A" "T" "G" "T" "T" "G" "A" "C" "T" "T" "C" "G" "T"
## [4645] "A" "A" "T" "T" "A" "C" "G" "G" "T" "C" "T" "C" "T" "A" "C" "A" "G" "T"
## [4663] "G" "G" "A" "T" "T" "T" "A" "G" "T" "T" "G" "T" "A" "G" "A" "C" "C" "A"
## [4681] "C" "T" "A" "C" "A" "T" "A" "C" "T" "A" "A" "G" "A" "A" "T" "T" "T" "T"
## [4699] "A" "T" "A" "A" "A" "T" "A" "G" "A" "T" "T" "G" "A" "G" "G" "A" "G" "G"
## [4717] "A" "A" "C" "T" "T" "A" "C" "T" "T" "A" "G" "A" "T" "T" "A" "A" "G" "T"
## [4735] "C" "C" "A" "A" "C" "G" "T" "T" "T" "C" "C" "T" "A" "G" "T" "A" "T" "T"
## [4753] "T" "G" "A" "C" "A" "C" "A" "A" "C" "A" "A" "C" "T" "G" "T" "T" "A" "A"
## [4771] "G" "G" "A" "T" "A" "A" "T" "G" "T" "T" "G" "T" "A" "G" "T" "G" "T" "C"
## [4789] "A" "A" "T" "G" "G" "T" "C" "T" "G" "T" "G" "T" "T" "T" "A" "C" "A" "C"

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## [4807] "A" "A" "C" "A" "G" "A" "C" "A" "T" "C" "A" "T" "T" "A" "C" "T" "A" "A"
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## [4843] "G" "A" "A" "A" "C" "A" "C" "A" "A" "T" "G" "T" "T" "T" "G" "G" "T" "C"
## [4861] "A" "C" "A" "C" "A" "C" "G" "G" "T" "A" "A" "A" "C" "T" "T" "T" "G" "T"
## [4879] "T" "T" "C" "T" "G" "T" "G" "G" "A" "A" "G" "T" "G" "C" "T" "C" "C" "T"
## [4897] "T" "T" "C" "A" "C" "A" "C" "G" "A" "A" "A" "A" "G" "G" "T" "A" "G" "T"
## [4915] "A" "C" "T" "G" "T" "T" "T" "A" "T" "C" "G" "T" "C" "C" "T" "C" "G" "T"
## [4933] "C" "A" "A" "C" "A" "C" "T" "T" "C" "A" "A" "G" "A" "A" "A" "A" "G" "A"
## [4951] "A" "C" "A" "C" "G" "T" "C" "C" "C" "T" "G" "T" "A" "T" "T" "C" "A" "G"
## [4969] "T" "G" "T" "A" "C" "G" "T" "T" "C" "T" "T" "C" "T" "G" "A" "T" "G" "T"
## [4987] "G" "G" "T" "A" "C" "T" "C" "C" "A" "C" "G" "A" "C" "T" "G" "A" "C" "T"
## [5005] "C" "C" "C" "T" "T" "C" "C" "T" "G" "T" "T" "T" "T" "C" "T" "A" "C" "T"
## [5023] "A" "T" "C" "G" "G" "G" "A" "A" "A" "G" "G" "T" "G" "T" "T" "T" "T" "T"
## [5041] "A" "G" "T" "T" "G" "A" "G" "A" "A" "A" "A" "A" "C" "T" "A" "A" "C" "A"
## [5059] "G" "G" "T" "T" "C" "A" "T" "G" "T" "G" "T" "G" "A" "G" "A" "C" "T" "G"
## [5077] "T" "A" "A" "A" "A" "T" "C" "A" "T" "C" "G" "T" "C" "G" "T" "T" "C" "T"
## [5095] "A" "A" "T" "C" "G" "T" "C" "T" "T" "C" "G" "A" "G" "A" "C" "T" "A" "A"
## [5113] "A" "G" "A" "C" "G" "T" "C" "G" "A" "G" "A" "T" "T" "A" "A" "T" "T" "A"
## [5131] "A" "C" "A" "A" "C" "T" "C" "A" "G" "T" "G" "T" "A" "T" "A" "C" "A" "G"
## [5149] "A" "C" "G" "T" "T" "T" "G" "A" "A" "A" "C" "T" "T" "C" "A" "G" "A" "C"
## [5167] "G" "G" "A" "C" "A" "C" "T" "A" "G" "T" "T" "G" "G" "A" "T" "A" "G" "T"
## [5185] "T" "A" "A" "A" "C" "G" "T" "G" "A" "A" "G" "T" "C" "G" "G" "A" "G" "T"
## [5203] "T" "G" "A" "A" "A" "C" "A" "G" "T" "T" "C" "T" "G" "C" "A" "C" "T" "T"
## [5221] "T" "C" "C" "T" "A" "T" "A" "G" "T" "A" "A" "A" "T" "T" "T" "T" "G" "T"
## [5239] "G" "A" "A" "C" "T" "T" "T" "A" "A" "C" "G" "T" "G" "G" "T" "T" "T" "A"
## [5257] "A" "A" "C" "C" "T" "C" "G" "A" "T" "T" "C" "A" "A" "C" "A" "A" "A" "T"
## [5275] "T" "G" "T" "T" "C" "G" "C" "A" "C" "A" "A" "A" "T" "T" "T" "C" "G" "A"
## [5293] "A" "C" "A" "C" "G" "T" "A" "A" "T" "A" "C" "C" "A" "A" "C" "T" "G" "G"
## [5311] "T" "G" "T" "A" "G" "A" "A" "C" "T" "T" "C" "A" "A" "A" "A" "G" "G" "T"
## [5329] "T" "C" "A" "C" "G" "T" "G" "A" "A" "C" "G" "A" "C" "A" "C" "C" "T" "T"
## [5347] "C" "T" "T" "T" "C" "A" "C" "T" "C" "A" "G" "A" "A" "C" "T" "T" "A" "A"
## [5365] "A" "A" "C" "G" "G" "T" "T" "A" "T" "C" "G" "T" "G" "A" "T" "A" "A" "T"
## [5383] "T" "T" "A" "A" "C" "C" "A" "A" "C" "C" "G" "T" "T" "A" "G" "T" "T" "A"
## [5401] "A" "A" "A" "A" "C" "C" "A" "A" "G" "A" "G" "T" "A" "T" "C" "T" "C" "T"
## [5419] "T" "G" "T" "A" "A" "G" "A" "C" "A" "C" "A" "T" "T" "G" "A" "G" "G" "T"
## [5437] "T" "A" "T" "G" "G" "T" "A" "A" "T" "T" "T" "G" "G" "A" "T" "A" "T" "T"
## [5455] "C" "G" "G" "T" "A" "A" "A" "C" "G" "T" "A" "T" "C" "G" "T" "T" "T" "A"
## [5473] "C" "C" "A" "T" "A" "A" "A" "C" "A" "T" "T" "A" "C" "G" "T" "C" "G" "T"
## [5491] "G" "G" "A" "C" "G" "T" "G" "G" "T" "T" "T" "C" "C" "A" "G" "G" "T" "T"
## [5509] "G" "G" "T" "C" "T" "T" "C" "A" "C" "T" "A" "A" "C" "A" "T" "G" "G" "G"
## [5527] "C" "G" "A" "T" "T" "G" "T" "C" "A" "C" "G" "T" "C" "T" "T" "C" "A" "C"
## [5545] "A" "T" "A" "A" "C" "T" "C" "G" "T" "T" "A" "G" "T" "A" "A" "A" "G" "T"
## [5563] "A" "G" "A" "C" "A" "C" "T" "C" "G" "T" "T" "T" "C" "C" "A" "C" "C" "G"
## [5581] "T" "T" "T" "T" "G" "T" "C" "A" "T" "T" "C" "C" "G" "G" "C" "A" "A" "T"
## [5599] "T" "T" "G" "A" "A" "A" "A" "C" "A" "C" "G" "T" "G" "T" "T" "T" "A" "C"
## [5617] "T" "C" "C" "A" "G" "A" "G" "A" "T" "C" "G" "T" "C" "G" "T" "T" "A" "T"
## [5635] "A" "G" "T" "G" "G" "T" "T" "C" "C" "G" "T" "T" "A" "G" "T" "G" "G" "T"
## [5653] "A" "T" "A" "A" "C" "A" "A" "A" "C" "T" "A" "C" "T" "T" "C" "G" "G" "T"
## [5671] "C" "G" "T" "A" "G" "A" "C" "G" "T" "T" "C" "A" "C" "A" "G" "T" "G" "A"
## [5689] "A" "A" "C" "A" "A" "C" "T" "T" "T" "T" "C" "A" "T" "C" "T" "A" "G" "A"
## [5707] "A" "G" "T" "T" "A" "T" "T" "T" "A" "C" "T" "G" "G" "A" "G" "A" "A" "C"
## [5725] "G" "A" "A" "C" "C" "A" "A" "A" "A" "C" "T" "A" "C" "C" "T" "A" "G" "A"
## [5743] "C" "C" "A" "T" "T" "A" "T" "A" "A" "A" "C" "A" "C" "T" "T" "T" "T" "T"
## [5761] "A" "A" "T" "T" "T" "T" "G" "G" "T" "G" "G" "T" "T" "T" "T" "A" "T" "A"

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## [5779] "A" "A" "T" "T" "A" "A" "C" "C" "A" "C" "C" "A" "C" "A" "A" "A" "A" "C"
## [5797] "A" "T" "T" "T" "A" "A" "A" "C" "A" "A" "A" "C" "T" "G" "A" "A" "C" "A"
## [5815] "C" "G" "T" "T" "T" "T" "T" "G" "A" "A" "G" "A" "A" "C" "C" "C" "A" "C"
## [5833] "A" "A" "A" "A" "A" "C" "A" "G" "A" "A" "C" "A" "A" "G" "T" "T" "G" "T"
## [5851] "C" "G" "A" "T" "A" "A" "G" "G" "T" "C" "A" "A" "T" "T" "T" "C" "G" "T"
## [5869] "G" "C" "A" "A" "A" "A" "T" "T" "A" "A" "C" "A" "C" "A" "T" "G" "T" "T"
## [5887] "T" "T" "T" "G" "A" "C" "G" "G" "T" "A" "T" "A" "A" "C" "G" "T" "T" "G"
## [5905] "T" "T" "T" "T" "C" "T" "A" "A" "C" "G" "A" "C" "G" "T" "A" "A" "G" "T"
## [5923] "C" "A" "A" "C" "T" "T" "A" "G" "T" "G" "G" "T" "G" "T" "T" "T" "A" "C"
## [5941] "A" "T" "G" "T" "A" "A" "C" "A" "T" "G" "T" "T" "A" "G" "A" "T" "G" "A"
## [5959] "C" "T" "A" "C" "A" "G" "A" "A" "C" "C" "A" "G" "T" "A" "T" "C" "T" "G"
## [5977] "T" "G" "A" "C" "C" "A" "T" "C" "T" "T" "A" "A" "A" "G" "A" "C" "A" "C"
## [5995] "C" "A" "T" "T" "G" "T" "G" "A" "T" "T" "A" "T" "C" "A" "T" "T" "T" "T"
## [6013] "A" "A" "A" "C" "A" "C" "C" "C" "A" "T" "A" "C" "C" "G" "T" "T" "A" "T"
## [6031] "C" "T" "C" "A" "A" "T" "A" "A" "T" "C" "T" "C" "A" "T" "T" "C" "G" "T"
## [6049] "T" "G" "A" "C" "T" "T" "A" "A" "A" "A" "G" "A" "C" "G" "T" "G" "G" "T"
## [6067] "T" "C" "A" "C" "T" "G" "T" "A" "T" "C" "A" "C" "A" "T" "C" "C" "G" "T"
## [6085] "T" "A" "C" "T" "A" "C" "C" "T" "A" "A" "C" "T" "G" "A" "T" "C" "G" "A"
## [6103] "T" "G" "T" "G" "A" "T" "G" "C" "A" "C" "G" "G" "G" "C" "G" "G" "C" "T"
## [6121] "A" "C" "T" "C" "T" "G" "A" "A" "T" "C" "A" "G" "A" "C" "T" "C" "A" "G"
## [6139] "A" "C" "T" "A" "T" "T" "G" "A" "T" "C" "G" "C" "G" "T" "A" "T" "A" "T"
## [6157] "G" "G" "A" "C" "G" "T" "G" "G" "T" "T" "A" "C" "C" "C" "A" "T" "A" "C"
## [6175] "A" "G" "T" "G" "T" "G" "A" "G" "T" "A" "T" "A" "C" "T" "C" "A" "A" "C"
## [6193] "A" "A" "C" "T" "G" "T" "A" "T" "A" "A" "G" "T" "C" "G" "G" "G" "G" "A"
## [6211] "T" "A" "A" "T" "T" "T" "G" "T" "C" "G" "G" "A" "C" "G" "T" "G" "C" "A"
## [6229] "C" "A" "A" "A" "C" "T" "T" "T" "T" "T" "G" "T" "A" "A" "T" "C" "T" "T"
## [6247] "G" "G" "A" "C" "A" "T" "C" "T" "T" "A" "T" "T" "T" "G" "T" "G" "C" "G"
## [6265] "G" "T" "T" "C" "A" "T" "C" "C" "T" "C" "A" "T" "T" "C" "A" "A" "C" "T"
## [6283] "A" "G" "A" "C" "G" "T" "A" "C" "T" "T" "A" "T" "C" "G" "T" "T" "G" "T"
## [6301] "C" "C" "C" "T" "G" "A" "A" "G" "A" "C" "A" "C" "G" "T" "C" "A" "A" "T"
## [6319] "T" "G" "T" "G" "G" "G" "A" "C" "T" "A" "T" "T" "T" "C" "T" "T" "G" "T"
## [6337] "C" "G" "T" "T" "G" "G" "A" "C" "C" "A" "A" "T" "C" "T" "T" "C" "A" "T"
## [6355] "A" "A" "A" "C" "A" "A" "G" "G" "A" "C" "C" "A" "C" "A" "A" "T" "A" "T"
## [6373] "T" "G" "T" "G" "A" "C" "T" "G" "T" "G" "G" "T" "G" "G" "T" "T" "T" "T"
## [6391] "C" "T" "T" "G" "T" "A" "C" "C" "A" "C" "A" "T" "T" "A" "C" "A" "G" "T"
## [6409] "T" "C" "T" "T" "A" "G" "A" "G" "T" "T" "C" "A" "C" "A" "G" "A" "C" "A"
## [6427] "C" "C" "T" "A" "G" "T" "G" "C" "C" "T" "G" "T" "C" "G" "T" "A" "G" "T"
## [6445] "C" "A" "T" "C" "A" "C" "A" "G" "T" "C" "G" "T" "T" "A" "C" "A" "G" "A"
## [6463] "G" "A" "C" "G" "G" "T" "T" "T" "A" "A" "C" "A" "A" "C" "C" "T" "T" "T"
## [6481] "C" "C" "G" "T" "C" "T" "T" "T" "G" "A" "A" "A" "A" "A" "C" "A" "A" "T"
## [6499] "C" "T" "G" "A" "G" "T" "C" "A" "T" "T" "C" "T" "T" "G" "T" "G" "G" "A"
## [6517] "C" "A" "C" "G" "G" "A" "C" "A" "A" "T" "T" "T" "G" "G" "T" "A" "A" "C"
## [6535] "T" "T" "C" "A" "A" "C" "T" "T" "T" "A" "A" "C" "T" "G" "T" "G" "T" "A"
## [6553] "A" "A" "C" "A" "A" "A" "A" "A" "T" "T" "G" "G" "T" "T" "T" "A" "A" "T"
## [6571] "C" "A" "T" "C" "T" "G" "A" "A" "A" "A" "A" "T" "C" "C" "A" "G" "G" "T"
## [6589] "G" "T" "T" "T" "G" "T" "C" "A" "A" "C" "G" "A" "C" "C" "A" "C" "G" "T"
## [6607] "A" "C" "A" "T" "C" "T" "T" "C" "A" "A" "G" "T" "T" "T" "T" "C" "T" "T"
## [6625] "T" "C" "A" "T" "G" "A" "T" "G" "A" "T" "G" "A" "G" "A" "C" "A" "T" "A"
## [6643] "C" "C" "A" "A" "C" "C" "A" "C" "T" "G" "G" "T" "T" "G" "T" "G" "G" "T"
## [6661] "A" "T" "T" "C" "A" "C" "C" "C" "A" "G" "C" "C" "T" "T" "T" "G" "G" "T"
## [6679] "A" "T" "A" "C" "T" "A" "A" "C" "A" "T" "T" "T" "C" "C" "T" "C" "T" "C"
## [6697] "A" "T" "T" "G" "T" "T" "A" "A" "T" "C" "C" "T" "G" "G" "A" "C" "G" "T"
## [6715] "T" "G" "T" "G" "G" "T" "A" "A" "T" "G" "T" "T" "C" "C" "A" "A" "A" "C"
## [6733] "A" "A" "T" "G" "G" "C" "C" "G" "G" "A" "C" "T" "A" "T" "C" "T" "A" "A"

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## [6751] "A" "G" "T" "C" "A" "A" "C" "T" "T" "T" "A" "T" "A" "G" "A" "G" "A" "G"
## [6769] "A" "G" "T" "T" "T" "T" "C" "C" "A" "A" "A" "C" "T" "C" "G" "A" "A" "T"
## [6787] "C" "T" "G" "A" "A" "G" "G" "A" "T" "T" "T" "G" "T" "T" "A" "G" "A" "T"
## [6805] "A" "T" "G" "T" "C" "C" "A" "T" "T" "A" "A" "T" "A" "T" "T" "A" "A" "T"
## [6823] "G" "G" "T" "G" "A" "T" "C" "C" "G" "A" "A" "T" "C" "T" "T" "A" "G" "T"
## [6841] "T" "C" "G" "A" "A" "C" "A" "A" "T" "C" "T" "T" "A" "A" "G" "G" "T" "T"
## [6859] "C" "G" "A" "T" "A" "T" "T" "G" "C" "G" "T" "C" "G" "G" "A" "C" "A" "T"
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## [6895] "A" "T" "T" "A" "A" "T" "A" "T" "T" "A" "G" "T" "C" "G" "T" "T" "A" "T"
## [6913] "A" "A" "A" "G" "G" "T" "C" "A" "A" "A" "C" "G" "G" "G" "A" "C" "C" "T"
## [6931] "C" "G" "C" "T" "A" "A" "A" "C" "C" "G" "A" "C" "T" "G" "A" "A" "G" "T"
## [6949] "A" "A" "T" "G" "G" "A" "G" "A" "T" "T" "A" "A" "T" "G" "T" "T" "T" "A"
## [6967] "C" "T" "T" "A" "G" "A" "C" "G" "T" "A" "T" "C" "T" "G" "T" "A" "A" "T"
## [6985] "C" "A" "T" "T" "T" "C" "G" "T" "C" "T" "C" "T" "A" "G" "T" "A" "A" "A"
## [7003] "T" "T" "A" "A" "A" "T" "C" "A" "T" "C" "C" "T" "C" "T" "G" "T" "G" "A"
## [7021] "G" "G" "T" "A" "T" "T" "G" "T" "G" "A" "A" "T" "T" "T" "T" "C" "G" "C"
## [7039] "T" "T" "T" "T" "T" "A" "C" "C" "A" "C" "G" "C" "T" "T" "T" "A" "A" "T"
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## [7093] "G" "A" "G" "A" "A" "G" "G" "A" "C" "A" "A" "G" "G" "T" "T" "C" "G" "T"
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## [7201] "A" "C" "C" "T" "G" "A" "G" "A" "T" "T" "T" "C" "A" "A" "T" "C" "T" "T"
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## [7291] "G" "T" "C" "A" "G" "A" "T" "G" "T" "C" "G" "T" "A" "G" "A" "C" "A" "T"
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## [7471] "T" "A" "A" "C" "C" "G" "T" "T" "T" "A" "G" "A" "T" "G" "G" "T" "T" "A"
## [7489] "C" "C" "A" "A" "G" "A" "T" "T" "T" "C" "G" "G" "C" "T" "T" "T" "T" "T"
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## [7705] "T" "A" "G" "G" "T" "T" "G" "A" "A" "A" "A" "C" "A" "A" "C" "A" "A" "A"

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## [8425] "T" "A" "A" "T" "G" "T" "A" "G" "G" "T" "T" "A" "A" "T" "T" "T" "T" "T"
## [8443] "A" "C" "G" "A" "A" "G" "T" "C" "T" "A" "C" "T" "A" "C" "T" "G" "C" "G"
## [8461] "T" "A" "A" "G" "T" "G" "T" "A" "A" "T" "C" "A" "T" "T" "G" "T" "T" "T"
## [8479] "C" "C" "G" "A" "C" "A" "G" "G" "T" "G" "G" "T" "A" "C" "G" "C" "T" "T"
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## [8533] "T" "A" "C" "A" "A" "G" "A" "C" "A" "A" "T" "A" "G" "A" "A" "A" "T" "A"
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## [8569] "T" "C" "G" "A" "T" "C" "G" "A" "A" "A" "A" "C" "A" "A" "C" "A" "T" "A"
## [8587] "T" "T" "T" "G" "G" "G" "T" "G" "T" "T" "T" "A" "C" "A" "T" "T" "C" "A"
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## [8623] "C" "A" "G" "T" "A" "A" "A" "A" "G" "A" "A" "A" "A" "C" "A" "T" "T" "G"
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## [8893] "A" "T" "T" "T" "A" "T" "A" "A" "C" "T" "G" "T" "G" "T" "C" "A" "A" "C"
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## [9415] "A" "A" "A" "T" "A" "T" "G" "G" "C" "A" "A" "G" "T" "T" "A" "C" "T" "T"
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## [11611] "A" "C" "A" "T" "C" "C" "T" "A" "C" "A" "T" "T" "G" "G" "G" "T" "C" "A"
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## [11791] "T" "A" "A" "T" "T" "T" "A" "G" "A" "C" "A" "A" "A" "T" "G" "T" "A" "A"
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## [11845] "C" "T" "G" "T" "A" "T" "C" "A" "G" "C" "A" "T" "A" "A" "G" "A" "C" "T"
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## [11989] "A" "T" "G" "G" "T" "G" "C" "G" "G" "A" "T" "A" "A" "A" "C" "A" "C" "C"
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## [12079] "C" "A" "G" "A" "A" "A" "T" "A" "C" "A" "C" "G" "A" "A" "A" "T" "T" "C"
## [12097] "G" "A" "A" "T" "A" "A" "T" "A" "G" "T" "A" "T" "T" "T" "G" "G" "T" "T"
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## [12313] "T" "A" "A" "C" "T" "G" "T" "T" "G" "T" "G" "A" "G" "T" "T" "T" "A" "G"
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## [12925] "T" "G" "G" "T" "C" "A" "T" "T" "T" "C" "T" "G" "T" "A" "T" "T" "A" "A"
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## [13033] "T" "C" "T" "G" "T" "C" "A" "A" "A" "T" "T" "T" "A" "C" "A" "G" "A" "G"
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## [13501] "G" "T" "A" "T" "C" "G" "G" "A" "G" "T" "A" "T" "T" "T" "T" "G" "A" "G"
## [13519] "T" "C" "C" "A" "A" "G" "G" "G" "T" "T" "A" "T" "G" "G" "A" "A" "C" "T"
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## [13555] "G" "T" "A" "T" "T" "G" "T" "C" "T" "T" "A" "T" "G" "T" "A" "C" "A" "G"
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## [13609] "A" "T" "A" "C" "A" "T" "A" "A" "C" "A" "T" "T" "C" "A" "T" "G" "T" "T"
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## [13717] "T" "G" "G" "T" "A" "G" "A" "C" "A" "A" "A" "A" "A" "T" "G" "C" "T" "A"
## [13735] "T" "A" "G" "T" "A" "G" "A" "T" "G" "T" "T" "T" "T" "G" "T" "C" "G" "G"
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[16399] "T" "G" "T" "A" "T" "G" "A" "A" "T" "G" "G" "A" "A" "A" "A" "T" "T" "C"
[16417] "A" "G" "T" "G" "T" "T" "T" "T" "A" "G" "G" "A" "A" "A" "T" "C" "C" "T"
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[16453] "G" "T" "T" "G" "C" "C" "G" "T" "C" "A" "T" "G" "T" "C" "T" "G" "T" "T"

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## [16471] "G" "T" "G" "C" "T" "A" "C" "G" "T" "G" "G" "T" "G" "G" "T" "T" "T" "C"
## [16489] "C" "T" "A" "A" "G" "A" "A" "C" "T" "A" "G" "G" "T" "A" "T" "A" "A" "C"
## [16507] "C" "G" "A" "A" "G" "G" "C" "C" "A" "C" "A" "T" "T" "G" "A" "C" "A" "A"
## [16525] "T" "A" "A" "C" "G" "G" "A" "C" "T" "G" "G" "T" "C" "A" "T" "G" "G" "T"
## [16543] "C" "A" "C" "A" "C" "A" "C" "A" "T" "G" "T" "G" "T" "T" "G" "T" "A" "G"
## [16561] "A" "A" "T" "T" "G" "T" "G" "T" "T" "A" "A" "T" "C" "A" "C" "T" "A" "A"
## [16579] "C" "C" "A" "A" "C" "A" "G" "G" "G" "G" "G" "T" "G" "A" "T" "C" "G" "A"
## [16597] "T" "C" "T" "A" "T" "T" "A" "G" "A" "A" "A" "C" "A" "T" "T" "C" "G" "A"
## [16615] "A" "A" "T" "C" "G" "T" "C" "G" "T" "A" "G" "A" "T" "G" "T" "C" "G" "T"
## [16633] "T" "T" "T" "C" "G" "T" "G" "T" "C" "T" "T" "T" "C" "T" "A" "T" "T" "A"
## [16651] "T" "G" "T" "C" "A" "A" "C" "T" "T" "A" "A" "C" "C" "G" "T" "C" "C" "G"
## [16669] "T" "G" "A" "A" "G" "A" "C" "A" "A" "C" "G" "T" "A" "A" "T" "G" "G" "T"
## [16687] "C" "G" "A" "A" "C" "A" "T" "C" "T" "G" "C" "A" "T" "G" "A" "C" "A" "C"
## [16705] "C" "G" "T" "C" "G" "A" "T" "T" "T" "G" "A" "T" "G" "G" "T" "T" "C" "A"
## [16723] "T" "G" "G" "T" "A" "T" "G" "G" "A" "G" "A" "T" "A" "A" "A" "T" "C" "C"
## [16741] "A" "A" "C" "A" "A" "A" "T" "T" "A" "G" "G" "A" "A" "A" "T" "T" "A" "T"
## [16759] "T" "T" "C" "A" "T" "A" "T" "T" "T" "A" "T" "G" "A" "A" "G" "T" "G" "A"
## [16777] "A" "A" "T" "C" "C" "T" "G" "G" "A" "A" "A" "T" "C" "C" "A" "C" "A" "C"
## [16795] "A" "G" "A" "C" "A" "T" "T" "G" "T" "T" "T" "G" "G" "A" "T" "G" "T" "T"
## [16813] "C" "C" "A" "C" "C" "A" "A" "G" "G" "T" "C" "A" "A" "G" "A" "C" "A" "T"
## [16831] "A" "T" "T" "T" "A" "T" "C" "A" "T" "G" "G" "T" "C" "A" "A" "G" "G" "T"
## [16849] "A" "G" "T" "G" "A" "G" "A" "A" "T" "C" "C" "C" "T" "T" "A" "G" "A" "T"
## [16867] "C" "G" "G" "G" "T" "A" "A" "A" "G" "T" "T" "T" "A" "G" "G" "A" "C" "A"
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## [16939] "C" "G" "A" "T" "T" "G" "C" "G" "T" "A" "A" "C" "A" "G" "T" "A" "G" "T"
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## [16975] "C" "A" "T" "G" "G" "C" "C" "G" "T" "C" "G" "T" "G" "T" "T" "C" "T" "G"
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## [17029] "A" "C" "A" "T" "T" "A" "A" "A" "C" "T" "G" "T" "C" "G" "T" "C" "T" "T"
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## [17191] "G" "G" "T" "A" "G" "T" "G" "T" "G" "C" "A" "T" "A" "A" "A" "A" "A" "T"
## [17209] "A" "T" "A" "C" "A" "C" "A" "A" "T" "A" "T" "C" "A" "G" "A" "C" "C" "A"
## [17227] "T" "A" "C" "T" "G" "T" "T" "G" "G" "T" "A" "A" "T" "C" "A" "A" "A" "C"
## [17245] "C" "G" "A" "C" "G" "A" "C" "A" "A" "C" "A" "T" "T" "C" "T" "C" "C" "A"
## [17263] "T" "A" "A" "T" "A" "C" "A" "A" "G" "T" "T" "C" "C" "C" "T" "T" "G" "T"
## [17281] "G" "T" "T" "G" "G" "T" "A" "G" "A" "G" "A" "A" "C" "G" "T" "A" "A" "C"
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## [17407] "A" "A" "T" "A" "T" "G" "T" "A" "A" "A" "C" "C" "C" "A" "G" "T" "A" "T"
## [17425] "C" "G" "A" "A" "C" "T" "A" "G" "T" "C" "G" "G" "T" "A" "G" "A" "A" "A"

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## [17443] "A" "G" "G" "T" "T" "G" "A" "A" "T" "G" "C" "A" "A" "C" "G" "T" "A" "C"
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## [17623] "A" "C" "A" "T" "T" "C" "C" "A" "A" "C" "G" "G" "G" "A" "C" "A" "A" "C"
## [17641] "A" "G" "G" "T" "C" "G" "T" "A" "A" "A" "G" "A" "A" "G" "T" "G" "T" "T"
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## [17677] "C" "G" "T" "G" "G" "G" "A" "C" "G" "T" "A" "C" "C" "T" "T" "T" "C" "G"
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## [17749] "T" "T" "C" "T" "C" "T" "T" "A" "C" "A" "G" "T" "A" "A" "C" "A" "C" "A"
## [17767] "T" "T" "G" "A" "C" "C" "T" "G" "T" "G" "T" "A" "A" "C" "T" "C" "G" "G"
## [17785] "G" "T" "G" "T" "T" "A" "A" "A" "T" "C" "T" "A" "C" "T" "A" "C" "T" "A"
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## [17821] "T" "T" "T" "T" "G" "A" "C" "T" "C" "T" "C" "A" "T" "T" "C" "T" "G" "A"
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## [17875] "T" "G" "T" "C" "A" "C" "C" "G" "A" "T" "G" "A" "A" "A" "C" "T" "A" "T"
## [17893] "G" "T" "T" "C" "C" "A" "A" "A" "C" "G" "G" "T" "G" "G" "T" "T" "G" "T"
## [17911] "G" "G" "G" "T" "T" "G" "T" "T" "A" "A" "A" "T" "T" "A" "C" "A" "A" "C"
## [17929] "T" "C" "A" "A" "A" "C" "T" "T" "C" "C" "G" "T" "A" "G" "A" "T" "A" "C"
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## [17983] "A" "T" "A" "G" "A" "T" "T" "T" "G" "A" "G" "G" "A" "C" "A" "C" "A" "T"
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## [18055] "G" "T" "T" "T" "T" "C" "T" "C" "C" "G" "G" "T" "T" "T" "C" "A" "T" "T"
## [18073] "G" "T" "T" "C" "A" "T" "G" "T" "T" "T" "T" "T" "A" "T" "C" "G" "G" "A"
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## [18199] "C" "A" "A" "C" "A" "T" "T" "G" "A" "T" "G" "T" "G" "G" "A" "C" "T" "C"
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## [18325] "T" "G" "A" "G" "A" "G" "G" "A" "T" "C" "G" "T" "G" "G" "T" "A" "G" "T"
## [18343] "A" "G" "T" "A" "T" "G" "T" "G" "T" "C" "A" "A" "G" "A" "A" "C" "G" "A"
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## [18379] "T" "G" "A" "T" "G" "T" "C" "G" "A" "C" "T" "A" "C" "G" "T" "A" "T" "G"
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## [18415] "A" "A" "G" "T" "T" "T" "G" "A" "T" "C" "A" "T" "A" "G" "T" "T" "G" "G"
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## [18739] "C" "A" "T" "T" "G" "T" "G" "G" "A" "C" "T" "C" "G" "T" "A" "A" "C" "A"
## [18757] "G" "A" "T" "T" "G" "T" "T" "G" "T" "A" "G" "T" "T" "T" "T" "C" "C" "A"
## [18775] "C" "A" "T" "T" "T" "A" "A" "G" "T" "A" "G" "A" "A" "G" "A" "T" "T" "A"
## [18793] "T" "T" "T" "C" "G" "T" "G" "A" "T" "G" "G" "G" "T" "T" "A" "T" "A" "C"
## [18811] "C" "A" "T" "G" "C" "A" "G" "G" "T" "A" "A" "G" "T" "A" "T" "G" "G" "T"
## [18829] "A" "A" "A" "A" "C" "G" "T" "C" "A" "T" "T" "A" "A" "G" "A" "A" "A" "A"
## [18847] "T" "T" "A" "C" "T" "T" "C" "G" "T" "G" "T" "G" "T" "A" "T" "A" "G" "A"
## [18865] "T" "T" "T" "T" "G" "C" "C" "G" "T" "T" "A" "A" "G" "G" "T" "C" "A" "A"
## [18883] "A" "C" "T" "C" "G" "T" "C" "T" "T" "T" "C" "T" "C" "C" "A" "G" "G" "A"
## [18901] "T" "C" "A" "T" "A" "C" "A" "G" "T" "T" "G" "T" "A" "C" "C" "A" "G" "A"
## [18919] "A" "C" "A" "C" "A" "A" "T" "C" "T" "C" "C" "A" "A" "G" "T" "A" "T" "T"
## [18937] "A" "A" "C" "A" "T" "G" "A" "A" "G" "T" "A" "T" "C" "G" "G" "T" "G" "T"
## [18955] "T" "C" "C" "A" "A" "T" "T" "T" "C" "A" "G" "T" "A" "A" "T" "T" "C" "T"
## [18973] "C" "A" "A" "C" "A" "C" "C" "A" "T" "T" "T" "A" "G" "C" "T" "A" "A" "C"
## [18991] "T" "C" "T" "T" "T" "G" "G" "T" "G" "G" "A" "C" "A" "G" "A" "G" "G" "T"
## [19009] "A" "A" "A" "T" "A" "T" "T" "G" "T" "C" "G" "T" "C" "G" "C" "A" "T" "G"
## [19027] "T" "T" "G" "G" "T" "T" "C" "G" "A" "T" "T" "T" "T" "G" "T" "A" "A" "T"
## [19045] "T" "G" "A" "C" "A" "T" "T" "A" "T" "C" "A" "A" "C" "A" "C" "A" "G" "G"
## [19063] "C" "A" "T" "G" "G" "T" "C" "G" "A" "C" "G" "A" "A" "C" "A" "C" "G" "A"
## [19081] "C" "A" "A" "A" "C" "G" "G" "A" "C" "A" "G" "T" "T" "G" "T" "T" "T" "T"
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## [19117] "A" "G" "A" "T" "T" "C" "A" "G" "A" "C" "A" "C" "G" "G" "T" "C" "G" "T"
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## [19153] "A" "G" "G" "T" "A" "T" "A" "C" "C" "A" "C" "G" "T" "A" "C" "A" "T" "T"
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## [19189] "A" "T" "T" "A" "G" "A" "T" "A" "C" "A" "A" "T" "T" "T" "T" "G" "G" "T"
## [19207] "T" "G" "T" "G" "A" "T" "G" "G" "T" "G" "T" "A" "C" "T" "T" "G" "G" "T"
## [19225] "A" "A" "T" "T" "C" "C" "T" "T" "A" "C" "T" "T" "G" "G" "G" "A" "A" "T"
## [19243] "T" "A" "T" "C" "A" "C" "T" "T" "T" "A" "A" "C" "A" "C" "A" "G" "A" "G"
## [19261] "T" "A" "T" "C" "G" "T" "G" "T" "A" "A" "C" "C" "A" "T" "T" "T" "G" "T"
## [19279] "G" "G" "T" "C" "T" "A" "C" "C" "A" "C" "T" "T" "G" "G" "T" "A" "A" "C"
## [19297] "A" "T" "T" "G" "T" "T" "C" "G" "A" "T" "T" "G" "T" "G" "A" "C" "T" "T"
## [19315] "T" "T" "T" "C" "A" "G" "A" "C" "A" "G" "G" "A" "C" "C" "A" "A" "C" "T"
## [19333] "T" "A" "C" "G" "C" "T" "T" "G" "T" "T" "T" "G" "A" "A" "T" "A" "T" "G"
## [19351] "A" "A" "T" "C" "C" "A" "C" "A" "G" "A" "A" "T" "C" "C" "T" "A" "A" "C"
## [19369] "C" "G" "A" "C" "A" "T" "A" "G" "T" "T" "G" "G" "A" "A" "T" "T" "C" "G"

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## [19387] "A" "A" "T" "T" "C" "A" "T" "G" "T" "G" "T" "T" "A" "A" "A" "A" "C" "G"
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## [19423] "G" "A" "C" "T" "C" "A" "A" "C" "T" "T" "G" "T" "A" "A" "T" "G" "G" "T"
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## [19531] "G" "A" "A" "C" "C" "T" "G" "T" "C" "A" "T" "T" "T" "G" "A" "T" "G" "C"
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## [19567] "A" "A" "T" "T" "C" "A" "C" "A" "T" "C" "A" "A" "C" "A" "T" "G" "G" "T"
## [19585] "G" "T" "T" "C" "A" "A" "T" "G" "A" "A" "C" "A" "T" "G" "G" "T" "A" "T"
## [19603] "G" "T" "T" "G" "G" "G" "A" "G" "T" "T" "G" "A" "A" "A" "T" "G" "G" "T"
## [19621] "C" "T" "A" "C" "C" "C" "T" "T" "A" "C" "G" "G" "T" "A" "A" "A" "A" "A"
## [19639] "G" "A" "T" "T" "T" "T" "G" "G" "T" "G" "A" "G" "A" "C" "G" "T" "T" "T"
## [19657] "T" "G" "T" "C" "G" "A" "C" "T" "C" "C" "A" "C" "T" "A" "T" "C" "T" "C"
## [19675] "T" "A" "A" "A" "C" "A" "C" "C" "A" "C" "C" "A" "A" "C" "C" "A" "T" "T"
## [19693] "T" "C" "T" "T" "G" "T" "A" "G" "T" "C" "T" "T" "G" "G" "A" "C" "T" "C"
## [19711] "A" "A" "T" "G" "A" "C" "T" "T" "C" "A" "G" "T" "A" "A" "C" "T" "C" "T"
## [19729] "C" "G" "G" "A" "A" "A" "C" "G" "C" "T" "C" "T" "A" "C" "T" "G" "T" "T"
## [19747] "G" "T" "T" "C" "G" "T" "C" "G" "A" "A" "G" "A" "G" "A" "C" "A" "T" "C"
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## [19837] "T" "T" "T" "C" "C" "A" "T" "T" "A" "T" "C" "G" "T" "G" "T" "A" "G" "T"
## [19855] "G" "A" "T" "G" "C" "G" "T" "T" "G" "A" "A" "A" "T" "C" "T" "A" "T" "G"
## [19873] "T" "A" "A" "A" "G" "A" "A" "A" "T" "A" "A" "A" "T" "T" "G" "T" "T" "T"
## [19891] "T" "T" "C" "C" "A" "C" "G" "T" "G" "T" "C" "G" "C" "G" "T" "C" "G" "A"
## [19909] "A" "G" "A" "A" "G" "T" "T" "T" "T" "C" "A" "T" "G" "A" "T" "T" "T" "C"
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## [19945] "T" "G" "T" "G" "C" "A" "G" "A" "G" "A" "A" "A" "T" "C" "C" "A" "T" "T"
## [19963] "A" "A" "T" "G" "A" "T" "T" "T" "C" "T" "T" "G" "G" "T" "T" "A" "T" "C"
## [19981] "T" "T" "T" "A" "C" "G" "A" "A" "A" "C" "A" "C" "C" "T" "T" "T" "A" "T"
## [19999] "G" "T" "T" "T" "A" "C" "T" "A" "T" "A" "T" "T" "C" "G" "T" "T" "A" "A"
## [20017] "C" "A" "A" "T" "A" "G" "G" "T" "C" "T" "T" "T" "C" "C" "A" "T" "G" "A"
## [20035] "T" "T" "T" "C" "C" "A" "C" "A" "C" "T" "T" "G" "T" "A" "T" "T" "G" "G"
## [20053] "T" "A" "G" "G" "T" "G" "A" "C" "T" "T" "A" "T" "A" "C" "A" "C" "G" "A"
## [20071] "T" "T" "T" "T" "T" "T" "C" "T" "T" "T" "G" "T" "A" "G" "T" "A" "A" "T"
## [20089] "C" "A" "T" "T" "C" "T" "A" "T" "T" "T" "T" "A" "C" "A" "G" "T" "T" "C"
## [20107] "A" "T" "G" "T" "T" "C" "A" "T" "T" "T" "A" "T" "T" "G" "T" "C" "T" "T"
## [20125] "A" "T" "T" "T" "G" "T" "G" "G" "T" "C" "C" "A" "T" "T" "C" "T" "T" "A"
## [20143] "C" "T" "C" "A" "T" "T" "T" "G" "A" "C" "C" "A" "C" "A" "A" "T" "T" "T"
## [20161] "G" "T" "C" "T" "C" "A" "T" "G" "T" "T" "A" "C" "T" "T" "A" "C" "T" "G"
## [20179] "T" "A" "T" "T" "C" "C" "T" "T" "A" "T" "C" "A" "T" "T" "T" "C" "A" "T"
## [20197] "A" "A" "T" "T" "T" "C" "C" "G" "T" "T" "G" "A" "T" "G" "T" "A" "C" "T"
## [20215] "G" "A" "C" "A" "T" "A" "A" "G" "T" "G" "G" "T" "T" "T" "T" "C" "G" "A"
## [20233] "G" "A" "A" "G" "A" "T" "T" "T" "G" "G" "A" "G" "T" "A" "T" "T" "T" "T"
## [20251] "A" "T" "C" "A" "T" "C" "C" "G" "T" "T" "C" "C" "G" "T" "A" "C" "A" "A"
## [20269] "T" "G" "A" "T" "G" "C" "T" "A" "T" "C" "G" "G" "T" "G" "T" "T" "A" "T"
## [20287] "G" "G" "T" "G" "G" "T" "C" "G" "A" "T" "G" "A" "T" "A" "T" "C" "T" "A"
## [20305] "C" "G" "A" "C" "T" "A" "T" "A" "C" "A" "G" "G" "T" "T" "T" "C" "G" "T"
## [20323] "G" "G" "T" "T" "A" "T" "C" "C" "A" "A" "C" "T" "T" "A" "A" "T" "C" "A"
## [20341] "C" "C" "A" "C" "A" "T" "T" "T" "G" "T" "A" "T" "A" "A" "T" "C" "A" "T"

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## [20359] "T" "T" "A" "T" "T" "T" "A" "A" "A" "T" "G" "T" "C" "G" "T" "A" "G" "A"
## [20377] "T" "G" "T" "G" "G" "T" "G" "T" "C" "T" "T" "T" "T" "G" "A" "G" "G" "A"
## [20395] "C" "C" "A" "T" "T" "T" "C" "T" "A" "G" "A" "C" "A" "T" "T" "A" "T" "T"
## [20413] "A" "G" "T" "A" "A" "C" "A" "A" "T" "T" "C" "A" "T" "G" "G" "G" "T" "A"
## [20431] "G" "A" "T" "G" "G" "T" "G" "A" "T" "C" "A" "T" "C" "T" "A" "T" "G" "T"
## [20449] "G" "T" "T" "T" "G" "T" "G" "G" "T" "C" "G" "A" "A" "G" "A" "C" "T" "A"
## [20467] "G" "A" "A" "A" "G" "T" "G" "T" "T" "C" "A" "C" "G" "G" "C" "A" "C" "G"
## [20485] "G" "A" "T" "G" "T" "C" "A" "T" "G" "A" "G" "T" "C" "T" "T" "A" "G" "T"
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## [20539] "C" "A" "C" "A" "A" "T" "C" "C" "T" "T" "T" "A" "A" "C" "T" "T" "A" "T"
## [20557] "T" "A" "T" "C" "T" "C" "G" "G" "T" "A" "G" "G" "T" "A" "C" "T" "C" "G"
## [20575] "T" "G" "T" "A" "T" "T" "G" "C" "A" "C" "A" "C" "A" "G" "T" "C" "C" "C"
## [20593] "G" "C" "A" "T" "T" "T" "G" "A" "A" "A" "G" "T" "A" "T" "T" "C" "G" "T"
## [20611] "T" "G" "T" "C" "T" "T" "G" "G" "A" "A" "G" "A" "T" "C" "A" "T" "G" "T"
## [20629] "A" "A" "C" "T" "A" "T" "A" "G" "T" "A" "T" "T" "G" "T" "T" "A" "T" "A"
## [20647] "C" "C" "A" "T" "G" "A" "C" "C" "G" "A" "A" "T" "G" "G" "T" "C" "T" "T"
## [20665] "C" "G" "T" "A" "G" "A" "A" "A" "T" "T" "T" "T" "T" "A" "A" "C" "A" "T"
## [20683] "G" "T" "A" "A" "G" "T" "C" "G" "T" "C" "G" "G" "T" "T" "T" "T" "G" "T"
## [20701] "G" "T" "T" "C" "G" "A" "C" "T" "A" "C" "A" "A" "C" "G" "T" "T" "T" "C"
## [20719] "A" "G" "T" "C" "A" "C" "A" "T" "G" "A" "G" "A" "T" "A" "T" "T" "C" "A"
## [20737] "A" "A" "A" "C" "T" "A" "C" "C" "A" "C" "A" "C" "A" "T" "T" "G" "T" "C"
## [20755] "T" "A" "C" "A" "A" "T" "G" "G" "T" "T" "G" "A" "C" "G" "T" "G" "A" "T"
## [20773] "T" "T" "T" "T" "G" "A" "G" "A" "T" "C" "C" "A" "T" "T" "C" "T" "T" "T"
## [20791] "A" "C" "G" "T" "T" "T" "T" "T" "C" "A" "G" "T" "G" "G" "T" "A" "A" "T"
## [20809] "C" "A" "A" "C" "A" "C" "G" "C" "A" "T" "T" "A" "T" "A" "G" "C" "A" "C"
## [20827] "G" "G" "T" "C" "C" "G" "T" "T" "T" "G" "G" "T" "C" "C" "G" "T" "G" "C"
## [20845] "T" "G" "T" "T" "T" "T" "G" "G" "G" "T" "G" "A" "A" "G" "A" "G" "A" "A"
## [20863] "C" "A" "A" "T" "A" "C" "T" "G" "A" "C" "G" "T" "C" "G" "T" "T" "A" "G"
## [20881] "T" "T" "A" "C" "C" "C" "G" "T" "T" "C" "G" "A" "A" "A" "C" "A" "G" "T"
## [20899] "A" "A" "T" "C" "A" "T" "A" "T" "T" "G" "A" "T" "G" "G" "T" "G" "G" "T"
## [20917] "G" "C" "G" "A" "C" "C" "G" "A" "T" "T" "T" "G" "G" "T" "A" "C" "A" "C"
## [20935] "A" "G" "T" "T" "T" "T" "A" "G" "T" "C" "G" "T" "A" "C" "A" "A" "A" "C"
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## [20971] "C" "A" "T" "C" "T" "A" "C" "G" "A" "T" "A" "C" "A" "G" "T" "G" "C" "T"
## [20989] "C" "A" "C" "T" "G" "T" "G" "G" "T" "G" "G" "T" "A" "G" "T" "T" "A" "T"
## [21007] "C" "G" "G" "A" "A" "C" "A" "T" "A" "G" "G" "A" "T" "A" "C" "T" "A" "A"
## [21025] "A" "G" "T" "G" "A" "A" "C" "T" "T" "T" "T" "C" "A" "G" "T" "C" "A" "T"
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## [21097] "T" "C" "C" "T" "T" "G" "T" "G" "T" "T" "C" "A" "C" "A" "T" "T" "G" "A"
## [21115] "A" "A" "T" "T" "A" "A" "T" "T" "G" "A" "C" "G" "A" "A" "G" "T" "T" "G"
## [21133] "G" "T" "T" "A" "A" "T" "A" "A" "T" "T" "G" "T" "T" "A" "A" "A" "A" "T"
## [21151] "G" "G" "T" "G" "G" "G" "A" "A" "T" "T" "C" "A" "C" "G" "A" "T" "A" "G"
## [21169] "A" "A" "A" "C" "A" "A" "C" "A" "A" "T" "G" "T" "T" "G" "T" "A" "A" "T"
## [21187] "T" "G" "T" "T" "G" "A" "A" "C" "A" "G" "A" "T" "C" "A" "T" "C" "A" "A"
## [21205] "C" "G" "T" "G" "T" "A" "C" "A" "G" "T" "T" "G" "A" "A" "T" "T" "T" "T"
## [21223] "C" "C" "A" "T" "T" "C" "A" "A" "T" "A" "A" "G" "A" "A" "A" "A" "A" "T"
## [21241] "C" "G" "T" "C" "G" "T" "G" "A" "T" "G" "C" "A" "T" "A" "A" "A" "C" "A"
## [21259] "A" "A" "A" "G" "C" "A" "T" "C" "A" "A" "C" "A" "A" "G" "T" "C" "T" "G"
## [21277] "T" "T" "A" "C" "T" "G" "T" "A" "C" "T" "T" "T" "A" "G" "A" "A" "A" "T"
## [21295] "T" "G" "C" "A" "A" "G" "G" "T" "A" "T" "A" "G" "T" "T" "T" "C" "G" "T"
## [21313] "T" "A" "C" "A" "A" "C" "A" "C" "T" "G" "A" "A" "A" "A" "A" "C" "G" "A"

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## [21331] "T" "G" "G" "A" "C" "G" "C" "G" "T" "A" "A" "T" "T" "A" "T" "A" "C" "T"
## [21349] "G" "C" "G" "C" "G" "T" "G" "A" "T" "G" "T" "C" "A" "G" "T" "T" "A" "T"
## [21367] "G" "T" "T" "C" "G" "T" "G" "G" "T" "T" "C" "C" "A" "G" "T" "G" "C" "C"
## [21385] "C" "C" "A" "C" "A" "G" "T" "A" "C" "A" "A" "A" "A" "G" "T" "T" "G" "A"
## [21403] "A" "A" "C" "A" "A" "T" "A" "T" "C" "C" "A" "C" "T" "C" "G" "T" "A" "T"
## [21421] "A" "T" "C" "A" "A" "T" "A" "A" "T" "G" "T" "T" "G" "A" "T" "A" "G" "C"
## [21439] "G" "G" "T" "C" "A" "T" "T" "G" "A" "A" "G" "A" "T" "A" "C" "A" "G" "T"
## [21457] "C" "T" "A" "A" "C" "T" "A" "C" "A" "C" "T" "G" "T" "T" "A" "A" "A" "T"
## [21475] "T" "C" "T" "G" "T" "A" "A" "G" "T" "T" "G" "T" "T" "G" "T" "A" "G" "A"
## [21493] "A" "A" "T" "C" "A" "A" "A" "G" "A" "T" "G" "T" "A" "G" "A" "C" "T" "T"
## [21511] "A" "G" "T" "T" "G" "T" "T" "T" "G" "G" "G" "A" "A" "C" "G" "G" "C" "T"
## [21529] "C" "G" "A" "C" "G" "A" "C" "T" "T" "T" "A" "T" "T" "T" "T" "C" "A" "T"
## [21547] "C" "T" "A" "T" "T" "C" "T" "G" "T" "A" "A" "C" "A" "G" "A" "T" "T" "C"
## [21565] "C" "T" "G" "T" "G" "T" "A" "A" "G" "A" "A" "A" "C" "G" "T" "T" "C" "A"
## [21583] "A" "G" "T" "C" "G" "A" "A" "G" "A" "C" "G" "T" "C" "A" "A" "C" "G" "T"
## [21601] "T" "G" "A" "T" "C" "A" "C" "A" "A" "A" "A" "C" "T" "C" "A" "A" "A" "A"
## [21619] "A" "G" "G" "T" "A" "A" "C" "C" "A" "T" "G" "C" "A" "A" "T" "T" "T" "T"
## [21637] "C" "A" "A" "C" "T" "A" "C" "T" "T" "T" "T" "G" "C" "A" "T" "A" "A" "T"
## [21655] "T" "G" "C" "A" "T" "T" "C" "G" "T" "A" "G" "T" "T" "T" "G" "T" "A" "A"
## [21673] "A" "A" "T" "T" "G" "A" "C" "G" "T" "T" "G" "A" "A" "G" "G" "C" "G" "T"
## [21691] "G" "A" "T" "A" "G" "T" "G" "G" "T" "T" "G" "T" "A" "G" "T" "C" "T" "G"
## [21709] "T" "G" "A" "T" "T" "A" "C" "G" "G" "A" "C" "T" "A" "G" "A" "T" "C" "A"
## [21727] "T" "T" "G" "T" "C" "A" "T" "A" "T" "C" "C" "A" "A" "C" "T" "G" "T" "G"
## [21745] "T" "A" "T" "T" "C" "G" "A" "C" "T" "G" "A" "C" "A" "T" "C" "A" "T" "T"
## [21763] "T" "G" "T" "C" "T" "G" "C" "G" "A" "C" "T" "A" "A" "A" "A" "C" "G" "T"
## [21781] "C" "T" "A" "C" "T" "A" "A" "G" "A" "A" "G" "T" "G" "T" "A" "A" "A" "A"
## [21799] "C" "T" "A" "A" "A" "T" "G" "G" "T" "A" "G" "T" "T" "T" "T" "T" "G" "A"
## [21817] "T" "A" "T" "T" "G" "T" "A" "A" "T" "T" "A" "T" "C" "C" "G" "T" "T" "A"
## [21835] "C" "T" "T" "G" "G" "A" "A" "A" "T" "C" "A" "C" "A" "A" "T" "A" "A" "T"
## [21853] "C" "G" "A" "G" "A" "G" "T" "C" "C" "A" "A" "C" "A" "G" "A" "T" "T" "C"
## [21871] "A" "A" "T" "T" "G" "T" "T" "T" "T" "A" "C" "T" "C" "T" "C" "T" "C" "T"
## [21889] "C" "T" "T" "A" "C" "A" "G" "A" "A" "A" "G" "T" "A" "T" "T" "C" "A" "G"
## [21907] "A" "A" "A" "A" "C" "T" "G" "G" "T" "C" "G" "A" "A" "A" "T" "A" "G" "T"
## [21925] "T" "T" "C" "A" "T" "T" "T" "C" "T" "A" "C" "C" "T" "A" "C" "C" "T" "T"
## [21943] "G" "G" "T" "A" "A" "G" "A" "A" "G" "T" "G" "A" "C" "A" "T" "T" "G" "T"
## [21961] "G" "A" "T" "A" "G" "T" "T" "G" "C" "T" "A" "C" "A" "T" "T" "C" "T" "T"
## [21979] "C" "T" "G" "A" "C" "C" "A" "G" "T" "C" "A" "T" "C" "C" "T" "A" "A" "A"
## [21997] "T" "A" "A" "C" "C" "A" "G" "A" "A" "A" "A" "T" "T" "T" "G" "A" "C" "A"
## [22015] "T" "C" "A" "C" "T" "G" "T" "T" "C" "A" "G" "A" "G" "A" "G" "C" "G" "T"
## [22033] "T" "G" "A" "A" "G" "T" "A" "G" "T" "G" "A" "T" "T" "A" "T" "T" "T" "A"
## [22051] "C" "A" "T" "G" "A" "T" "G" "G" "T" "C" "G" "T" "G" "T" "C" "T" "T" "A"
## [22069] "C" "A" "T" "A" "G" "T" "G" "T" "T" "A" "A" "T" "T" "G" "T" "G" "T" "T"
## [22087] "A" "A" "G" "G" "T" "T" "A" "A" "C" "A" "C" "A" "T" "C" "A" "A" "A" "C"
## [22105] "G" "T" "T" "T" "T" "C" "G" "G" "A" "A" "A" "T" "G" "G" "A" "G" "G" "T"
## [22123] "A" "A" "T" "C" "G" "T" "A" "T" "C" "T" "G" "T" "A" "T" "T" "T" "T" "C"
## [22141] "C" "T" "G" "G" "A" "A" "G" "A" "T" "T" "G" "T" "G" "G" "T" "A" "A" "T"
## [22159] "T" "G" "T" "T" "A" "T" "C" "A" "A" "C" "A" "T" "G" "T" "A" "A" "G" "C"
## [22177] "T" "G" "A" "G" "A" "A" "C" "A" "A" "C" "G" "A" "G" "A" "T" "A" "A" "T"
## [22195] "G" "C" "A" "A" "A" "C" "A" "T" "T" "G" "T" "G" "T" "A" "G" "T" "A" "T"
## [22213] "G" "T" "T" "C" "A" "A" "C" "T" "A" "C" "T" "T" "A" "A" "T" "G" "T" "T"
## [22231] "G" "G" "C" "A" "G" "A" "T" "G" "T" "T" "G" "T" "A" "C" "G" "T" "G" "T"
## [22249] "A" "T" "T" "G" "A" "A" "A" "A" "G" "G" "T" "A" "T" "G" "T" "A" "T" "T"
## [22267] "A" "T" "T" "T" "T" "A" "C" "T" "A" "C" "G" "T" "T" "T" "C" "T" "T" "C"
## [22285] "T" "A" "C" "A" "T" "G" "T" "A" "A" "G" "A" "T" "T" "G" "G" "T" "A" "T"

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## [22303] "C" "G" "A" "C" "T" "T" "T" "A" "G" "C" "C" "C" "C" "G" "G" "T" "A" "A"
## [22321] "A" "C" "A" "T" "G" "T" "T" "C" "T" "A" "A" "T" "T" "A" "A" "T" "A" "A"
## [22339] "T" "T" "G" "G" "T" "G" "T" "A" "T" "T" "C" "G" "G" "T" "T" "C" "T" "T"
## [22357] "A" "A" "T" "G" "A" "T" "T" "A" "T" "T" "T" "T" "A" "C" "A" "T" "G" "A"
## [22375] "C" "G" "T" "T" "T" "T" "A" "T" "C" "G" "A" "C" "T" "T" "T" "T" "T" "G"
## [22393] "T" "T" "A" "A" "C" "G" "T" "A" "C" "T" "A" "A" "C" "G" "T" "C" "G" "G"
## [22411] "T" "T" "A" "G" "G" "T" "T" "C" "A" "T" "G" "T" "A" "T" "C" "T" "T" "T"
## [22429] "T" "T" "G" "G" "A" "T" "C" "A" "C" "T" "T" "T" "T" "C" "T" "T" "A" "T"
## [22447] "A" "T" "A" "C" "G" "G" "T" "T" "T" "T" "T" "G" "G" "T" "G" "A" "G" "A"
## [22465] "C" "G" "T" "T" "G" "A" "T" "T" "C" "G" "G" "T" "T" "T" "T" "C" "G" "T"
## [22483] "C" "A" "A" "T" "T" "T" "A" "G" "G" "G" "T" "A" "A" "A" "T" "T" "T" "T"
## [22501] "C" "T" "A" "C" "T" "T" "T" "A" "C" "C" "A" "T" "T" "A" "A" "A" "C" "A"
## [22519] "T" "A" "T" "C" "A" "A" "A" "G" "A" "T" "T" "T" "C" "T" "T" "C" "C" "T"
## [22537] "A" "T" "C" "C" "A" "C" "A" "G" "A" "T" "T" "T" "C" "T" "T" "A" "G" "A"
## [22555] "T" "T" "T" "G" "G" "T" "G" "A" "T" "T" "C" "T" "G" "T" "T" "T" "G" "T"
## [22573] "G" "A" "T" "G" "T" "T" "C" "C" "A" "T" "A" "T" "C" "T" "T" "G" "G" "T"
## [22591] "C" "A" "T" "G" "T" "C" "A" "T" "C" "C" "A" "A" "C" "G" "T" "T" "A" "T"
## [22609] "C" "A" "C" "T" "G" "T" "A" "A" "T" "C" "A" "T" "C" "T" "C" "A" "A" "G"
## [22627] "T" "T" "T" "A" "T" "C" "G" "G" "A" "A" "G" "A" "G" "A" "C" "A" "T" "T"
## [22645] "G" "G" "T" "C" "A" "T" "G" "T" "C" "A" "T" "T" "C" "T" "T" "C" "C" "G"
## [22663] "T" "A" "C" "G" "G" "A" "T" "T" "T" "A" "A" "T" "C" "T" "G" "T" "A" "A"
## [22681] "T" "T" "T" "T" "G" "T" "G" "G" "A" "T" "T" "T" "C" "G" "T" "C" "G" "C"
## [22699] "C" "A" "A" "C" "T" "C" "A" "T" "C" "T" "A" "A" "T" "T" "T" "C" "T" "T"
## [22717] "G" "G" "A" "T" "C" "C" "G" "T" "T" "T" "G" "T" "G" "A" "A" "T" "T" "A"
## [22735] "T" "C" "A" "T" "T" "T" "T" "T" "G" "G" "T" "T" "T" "A" "A" "T" "A" "T"
## [22753] "T" "A" "T" "A" "A" "A" "T" "A" "G" "T" "C" "A" "A" "A" "T" "C" "T" "T"
## [22771] "T" "T" "T" "A" "A" "T" "C" "C" "A" "C" "T" "G" "A" "A" "G" "T" "T" "T"
## [22789] "A" "T" "T" "A" "A" "T" "T" "T" "A" "C" "T" "T" "C" "G" "G" "A" "G" "A"
## [22807] "T" "C" "T" "G" "T" "T" "T" "T" "A" "A" "A" "T" "G" "G" "C" "T" "G" "T"
## [22825] "G" "A" "G" "A" "A" "T" "T" "G" "T" "C" "A" "T" "A" "A" "G" "A" "A" "A"
## [22843] "C" "G" "A" "T" "A" "T" "C" "A" "T" "C" "A" "G" "C" "C" "G" "T" "A" "T"
## [22861] "C" "T" "A" "C" "G" "A" "A" "A" "T" "T" "A" "A" "G" "A" "T" "C" "T" "T"
## [22879] "A" "A" "A" "C" "A" "T" "G" "A" "A" "G" "A" "T" "C" "A" "T" "T" "T" "T"
## [22897] "C" "A" "T" "G" "T" "G" "T" "T" "A" "A" "C" "A" "T" "C" "G" "T" "T" "A"
## [22915] "T" "T" "T" "C" "A" "T" "T" "T" "C" "T" "T" "T" "A" "T" "T" "C" "C" "G"
## [22933] "T" "A" "T" "A" "T" "T" "A" "A" "T" "C" "A" "T" "G" "T" "T" "T" "G" "T"
## [22951] "G" "C" "C" "A" "A" "A" "T" "T" "T" "G" "T" "G" "G" "C" "A" "C" "A" "T"
## [22969] "T" "G" "A" "T" "A" "C" "A" "A" "T" "C" "A" "T" "C" "A" "A" "C" "A" "T"
## [22987] "G" "A" "T" "T" "G" "T" "T" "G" "A" "A" "A" "C" "A" "A" "T" "T" "C" "T"
## [23005] "T" "T" "T" "C" "C" "G" "A" "A" "T" "C" "G" "T" "A" "T" "T" "A" "A" "T"
## [23023] "C" "G" "A" "T" "A" "T" "C" "A" "T" "A" "G" "G" "G" "T" "T" "C" "C" "C"
## [23041] "T" "G" "T" "G" "A" "T" "A" "A" "T" "T" "G" "T" "C" "G" "T" "C" "G" "A"
## [23059] "T" "T" "T" "G" "G" "T" "A" "C" "T" "C" "A" "T" "C" "G" "T" "T" "C" "C"
## [23077] "C" "A" "A" "A" "A" "G" "T" "T" "T" "G" "G" "A" "T" "T" "A" "T" "G" "A"
## [23095] "G" "A" "T" "C" "T" "A" "T" "T" "A" "A" "G" "T" "A" "A" "T" "C" "C" "A"
## [23113] "A" "A" "G" "A" "A" "T" "T" "A" "T" "C" "A" "T" "T" "C" "T" "G" "A" "T"
## [23131] "C" "T" "T" "A" "A" "C" "A" "G" "A" "T" "G" "T" "A" "T" "T" "C" "G" "T"
## [23149] "C" "G" "G" "T" "A" "A" "T" "C" "T" "A" "G" "A" "C" "A" "C" "A" "C" "C"
## [23167] "G" "G" "T" "T" "G" "G" "A" "G" "A" "A" "G" "A" "C" "A" "T" "T" "A" "A"
## [23185] "A" "A" "A" "T" "T" "T" "G" "A" "T" "A" "A" "T" "A" "A" "A" "C" "G" "A"
## [23203] "C" "C" "A" "A" "A" "T" "T" "C" "A" "T" "A" "T" "T" "A" "C" "A" "G" "A"
## [23221] "G" "G" "A" "T" "G" "T" "T" "G" "A" "A" "G" "C" "C" "A" "T" "C" "A" "A"
## [23239] "A" "A" "G" "T" "G" "T" "A" "A" "T" "G" "T" "G" "A" "G" "T" "T" "C" "T"
## [23257] "T" "G" "C" "A" "G" "A" "A" "A" "G" "A" "C" "A" "T" "A" "C" "C" "A" "T"

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## [23275] "C" "C" "T" "A" "A" "A" "A" "G" "G" "T" "G" "A" "T" "G" "A" "A" "G" "A"
## [23293] "A" "G" "T" "C" "T" "C" "T" "G" "A" "C" "C" "A" "A" "A" "A" "T" "C" "T"
## [23311] "A" "G" "A" "A" "G" "C" "G" "T" "C" "C" "G" "T" "T" "C" "T" "A" "A" "T"
## [23329] "A" "G" "G" "T" "A" "A" "G" "G" "G" "A" "C" "G" "C" "G" "C" "A" "G" "G"
## [23347] "A" "G" "A" "C" "T" "G" "A" "A" "G" "T" "C" "A" "T" "G" "T" "A" "G" "T"
## [23365] "T" "T" "G" "C" "T" "T" "A" "A" "A" "C" "T" "A" "C" "A" "A" "A" "G" "T"
## [23383] "T" "G" "A" "C" "C" "A" "A" "A" "A" "C" "A" "C" "G" "A" "G" "G" "T" "T"
## [23401] "T" "C" "T" "G" "T" "T" "G" "C" "A" "T" "A" "T" "G" "T" "G" "G" "T" "C"
## [23419] "C" "A" "T" "A" "A" "A" "C" "C" "A" "A" "A" "T" "A" "T" "G" "C" "A" "C"
## [23437] "C" "G" "A" "A" "A" "T" "A" "A" "T" "C" "A" "A" "C" "G" "T" "A" "A" "C"
## [23455] "A" "A" "T" "T" "G" "T" "A" "C" "G" "G" "T" "T" "T" "G" "T" "T" "A" "T"
## [23473] "C" "C" "A" "A" "A" "T" "A" "C" "A" "T" "T" "G" "T" "T" "A" "A" "A" "T"
## [23491] "C" "G" "A" "G" "G" "A" "A" "A" "G" "A" "A" "T" "T" "T" "T" "C" "T" "C"
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## [23527] "A" "G" "T" "T" "A" "T" "C" "G" "G" "T" "G" "G" "T" "G" "T" "A" "G" "T"
## [23545] "G" "G" "T" "A" "A" "A" "T" "T" "C" "A" "G" "T" "C" "C" "C" "T" "T" "T"
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## [23599] "A" "T" "T" "G" "G" "T" "C" "A" "A" "T" "T" "G" "A" "C" "C" "A" "A" "A"
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## [23671] "C" "G" "C" "A" "A" "A" "C" "C" "T" "A" "T" "A" "C" "C" "A" "A" "C" "C"
## [23689] "A" "A" "A" "C" "C" "A" "T" "G" "T" "T" "C" "T" "A" "G" "T" "T" "A" "A"
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## [23779] "T" "G" "T" "G" "G" "T" "A" "G" "G" "T" "T" "A" "A" "A" "T" "A" "T" "T"
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## [23941] "G" "T" "G" "A" "C" "C" "A" "T" "T" "A" "A" "T" "G" "G" "T" "C" "A" "C"
## [23959] "A" "T" "G" "A" "G" "T" "G" "A" "T" "C" "G" "T" "G" "T" "T" "C" "A" "T"
## [23977] "T" "T" "A" "C" "A" "T" "G" "G" "T" "A" "C" "G" "A" "A" "T" "T" "C" "A"
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## [24013] "C" "G" "A" "C" "T" "G" "T" "A" "G" "T" "A" "T" "T" "G" "T" "T" "T" "T"
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## [24139] "C" "G" "A" "A" "G" "A" "T" "G" "T" "G" "G" "G" "A" "A" "T" "T" "C" "C"
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## [24913] "G" "G" "T" "C" "G" "T" "T" "C" "A" "C" "T" "C" "T" "A" "C" "C" "A" "A"
## [24931] "A" "G" "T" "T" "A" "T" "T" "T" "T" "A" "C" "A" "A" "G" "A" "A" "G" "T"
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## [24967] "C" "A" "T" "T" "C" "T" "A" "T" "T" "G" "G" "T" "A" "A" "T" "A" "T" "G"
## [24985] "C" "G" "A" "C" "A" "T" "T" "G" "T" "C" "G" "T" "A" "G" "T" "C" "C" "A"
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## [25165] "A" "T" "T" "T" "T" "C" "A" "T" "T" "T" "T" "A" "G" "A" "T" "C" "G" "T"
## [25183] "G" "G" "T" "A" "T" "T" "A" "G" "T" "T" "G" "G" "T" "G" "T" "G" "G" "G"
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## [25867] "T" "T" "T" "T" "T" "C" "G" "A" "A" "C" "T" "T" "T" "G" "T" "T" "C" "A"
## [25885] "A" "A" "C" "A" "G" "T" "A" "T" "C" "T" "C" "T" "A" "A" "A" "A" "A" "T"
## [25903] "A" "G" "T" "T" "T" "C" "T" "G" "T" "C" "G" "A" "T" "T" "C" "A" "T" "C"
## [25921] "T" "G" "T" "A" "A" "A" "C" "A" "C" "G" "C" "T" "T" "G" "T" "C" "A" "T"
## [25939] "A" "G" "A" "T" "G" "T" "G" "T" "T" "T" "G" "A" "G" "A" "A" "T" "T" "T"
## [25957] "C" "T" "T" "A" "C" "A" "T" "A" "T" "C" "C" "C" "A" "G" "T" "C" "G" "T"
## [25975] "G" "G" "T" "T" "T" "T" "T" "A" "T" "G" "G" "T" "C" "G" "A" "C" "T" "A"
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## [26065] "G" "G" "A" "A" "A" "C" "A" "A" "T" "T" "G" "T" "A" "A" "A" "C" "C" "C"
## [26083] "G" "G" "C" "T" "G" "T" "T" "G" "T" "A" "C" "T" "T" "C" "T" "G" "T" "C"
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## [26155] "G" "G" "T" "A" "A" "T" "C" "A" "T" "C" "G" "A" "T" "A" "C" "A" "T" "T"
## [26173] "A" "G" "T" "A" "G" "T" "C" "T" "A" "A" "G" "T" "T" "G" "A" "A" "C" "G"

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## [26389] "C" "A" "T" "T" "C" "A" "A" "G" "G" "T" "A" "G" "A" "G" "A" "T" "T" "A"
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## [26461] "G" "G" "C" "A" "G" "A" "A" "C" "A" "A" "C" "T" "G" "G" "T" "T" "G" "T"
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## [26695] "A" "A" "T" "T" "T" "G" "A" "G" "T" "G" "G" "T" "C" "T" "G" "A" "G" "T"
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## [26911] "T" "T" "T" "T" "A" "C" "T" "A" "T" "A" "A" "G" "T" "G" "T" "G" "A" "G"
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## [26983] "C" "G" "T" "G" "G" "C" "G" "G" "A" "A" "A" "C" "T" "C" "A" "C" "A" "C"
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## [27127] "G" "A" "T" "C" "A" "T" "C" "C" "A" "A" "C" "A" "A" "G" "A" "T" "T" "A"
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## [27433] "A" "A" "A" "C" "G" "T" "G" "T" "C" "C" "A" "C" "T" "G" "T" "T" "A" "A"
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## [27469] "G" "T" "T" "C" "G" "T" "G" "T" "C" "C" "A" "A" "C" "T" "C" "T" "A" "T"
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## [27505] "G" "G" "C" "A" "G" "A" "G" "A" "T" "T" "C" "T" "T" "T" "G" "A" "G" "A"
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## [27541] "A" "G" "A" "A" "G" "T" "T" "C" "G" "G" "T" "T" "A" "G" "T" "T" "C" "C"
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## [27613] "C" "A" "G" "T" "T" "G" "A" "C" "T" "T" "G" "T" "T" "G" "T" "G" "G" "T"
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## [27847] "G" "A" "G" "T" "C" "A" "T" "A" "A" "C" "T" "A" "A" "A" "G" "A" "C" "A"
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## [27991] "C" "T" "T" "C" "G" "T" "C" "T" "T" "T" "T" "T" "C" "T" "A" "C" "G" "G"
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## [28099] "A" "A" "T" "T" "C" "T" "G" "G" "A" "A" "G" "C" "C" "T" "T" "G" "G" "A"
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## [28387] "A" "A" "T" "C" "A" "G" "T" "T" "T" "A" "A" "G" "A" "G" "T" "C" "A" "C"
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## [29647] "A" "G" "A"

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