S04: Control de Error y RK-F

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Recordando

En los métodos anteriores que estudiamos, utilizamos una aproximación a una EDO a un paso y dada por

$$w_{i+1} = w_i + h_i\phi(t_i, w_i, h_i)$$

sin embargo en estos métodos descuidamos el error el cual puede crecer a medida que nos alejamos de las condiciones iniciales.

Un método **ideal** para aproximar estas soluciones tendría que considerar lo anterior

$$w_{i+1} = w_i + h_i\phi(t_i, w_i, h_i)$$

y además convinar una tolerancia

$$|y(t_i) - w_i| \leq \varepsilon$$

(una cota global del error) no importando si eso reduce el número de muestras que aproximemos, siempre y cuando tengamos la toleracia.

Desarrollemos el algoritmo

Algunas suposiciones

Supongamos que tenemos aproximaciones w_i y $\tilde{w}_i$ que corresponden a métodos de orden 4 y 5, respectivamente, es decir,

$$w_{i+1} = w_i + h\phi(t_i, w_i, h) + O(h^4)$$
$$\tilde{w}_{i+1} = \tilde{w}_i + h\psi(t_i, \tilde{w}_i, h) + O(h^5).$$

Denotaremos por $\tau_i(h)$ el error en el primer método y $\tilde{\tau}_i(h)$ en el segundo método. Esto es lo mismo que

$$\tau_i(h) = \frac{y(t_i) - w_i}{h}$$

$$\tilde{\tau}_i(h) = \frac{y(t_i) - \tilde{w}_i}{h}.$$

Pero (con un poco de algebra) esto es equivalente a

$$\tau_i(h) = \tilde{\tau}_i(h) + \frac{\tilde{w}_i - w_i}{h}.$$

Por lo que el error local de truncamiento es (aproximadamente)

$$\tau_{i+1} = \frac{\tilde{w}_{i+1} - w_{i+1}}{h}.$$

Más aún no queremos restringirnos a estimar el error, si no adaptar también el tamaño de paso para que este error tenga la tolerancia global.

Si supongo que mi error se comporta como $\tau_{i+1}(h) \approx Kh^n$, entonces $\tau_{i+1}(qh) \approx \frac{q^n}{h}\tau_{i+1}(h)$, por lo que mi tolerancia debe escogerse basada en:

$$\frac{q^n}{h}|\tilde{w}_{i+1} - w_{i+1}| \leq \varepsilon$$

por lo que el factor de aumento de paso debe cumplir

$$q \leq \left(\frac{\varepsilon h}{|\tilde{w}_{i+1} - w_{i+1}}\right)^{1/n}.$$

El método de Runge-Kutta-Fehlberg.

El método utiliza Runge-Kutta con error de truncamiento de orden 5, por lo las dos aproximaciones que utilizaremos estarán dadas por:

$$\tilde{w}_{i+1} = w_i + \frac{16}{135}k_1 + \frac{6656}{12825}k_3 + \frac{28561}{56430}k_4 - \frac{9}{50}k_5 + \frac{2}{55}k_6$$

$$w_{i+1} = w_i + \frac{2}{216}k_1 + \frac{1408}{2565}k_3 + \frac{2197}{4104}k_4 - \frac{1}{5}k_5.$$

donde los paramétros están dados por:

$$\begin{array}{rcl}
k_1 & = & hf(t_i, w_i) \\
k_2 & = & hf\left(t_i + \frac{h}{4}, w_i + \frac{1}{4}k_1\right) \\
k_3 & = & hf\left(t_i + \frac{3h}{8}, w_i + \frac{3}{32}k_1 + \frac{9}{32}k_2\right) \\
k_4 & = & hf\left(t_i + \frac{12h}{13}, w_i + \frac{1932}{2197}k_1 - \frac{7200}{2197}k_2 + \frac{7296}{2197}k_3\right) \\
k_5 & = & hf\left(t_i + h, w_i + \frac{439}{216}k_1 - 8k_2 + \frac{3680}{513}k_3 - \frac{845}{4104}k_4\right) \\
k_6 & = & hf\left(t_i + \frac{h}{2}, w_i - \frac{8}{27}k_1 + 2k_2 - \frac{3544}{2565}k_3 + \frac{1859}{4104}k_4 - \frac{11}{40}k_5\right)
\end{array}$$

¿Cómo determinar el tamaño del paso y qué debe satisfacer computacionalmente?

Inicialmente comenzaremos con un tamaño de paso h para calcular w_{i+1} y $\tilde{w}_{i+1}$, lo cual nos determinará el q en ese paso. El incremento q debe satisfacer: * Cuando $q < 1$: rechazar el valor inicial de h en el paso i y repetir los calculos. * Cuando $q \leq 1$: aceptar el valor calculado en el paso i usando h, y cambiar el tamaño de paso a qh para el paso $i+1$.

El pseudo-codigo

Objetivo: aproximar la solución al problema de valores iniciales

$$y' = f(t, y), \quad a \leq t \leq b, \quad y(a) = \alpha.$$

Entrada: * a, b puntos finales, * α condición inicial, * Tol la tolerancia en nuestro método, * $hmax$ tamaño de paso máximo, * $hmin$ tamaño de paso mínimo.

Salida: * t tiempo muestro, * w aproximación solución, * h tamaño de paso usado.

Paso 1: Tomemos $t = a$, $w = \alpha$, $h = hmax$ y $Flag = 1$.

Paso 2: While(Flag==1) haga pasos 3-11: *Paso 3:* Calcule los parametros $k_1, \ldots, k_6$. *Paso 4:* Tome

$$error = \frac{1}{h}\left|\frac{1}{360}k_1 - \frac{128}{4275}k_3 - \frac{2197}{75240}k_4 + \frac{1}{50}k_5 + \frac{2}{55}k_6\right|$$

Paso 5: If($error \leq Tol$) haga paso 6 y 7: *Paso 6:* Tome $t = t + h$. Tome

$$w = w + \frac{2}{216}k_1 + \frac{1408}{2565}k_3 + \frac{2197}{4104}k_4 - \frac{1}{5}k_5$$

Paso 7: guarde (t, w, h) *Paso 8:* Tomemos $q = 0.84(Tol/error)^{1/4}$. *Paso 9:* Si $q \leq 0.1$ tome $h = 0.1h$, si $q \geq 4$ entonces $h = 4h$, de lo contrario $h = qh$. *Paso 10:* si $h > hmax$, entonces $h = hmax$. *Paso 11:* Si $t \leq b$, entonces $Flag = 0$, de lo contrario si $t + h > b$, entonces $h = b - t$, si $h < hmin$ $Flag = 0$ y Output("h minimo excedido"). *Paso 12:* Terminar proceso.

```
RKF <- function(dy.dx,y,hmax=0.1,hmin=0.0001,start=0.0,end=2.0,Tol=0.0000001,y0=0.5){
  t<- start
  w <- y0
  h <- hmax
  Flag <- 1
  sols <- numeric(length=(end-start)/hmin)
  real <- numeric(length=(end-start)/hmin)
  error <- numeric(length=(end-start)/hmin)
  sols[1]<-w
  error[1]<-w
  times <- numeric(length=(end-start)/hmin)
  times[1] <- t
  i<-1
  while (Flag==1) {
    k1<-h*dy.dx(t,w)
    k2<-h*dy.dx(t+h/4,w+k1/4)
    k3<- h*dy.dx(t+3*h/8, w+3*k1/32+9*k2/32)
    k4<- h*dy.dx(t+12*h/13,w+1932*k1/2197-7200*k2/2197+7296*k3/2197)
    k5<-h*dy.dx(t+h, w+439*k1/216-8*k2+3680*k3/513-845*k4/4140)
    k6<- h*dy.dx(t+h/2,w-8*k1/27+2*k2-3544*k3/2565+1859*k4/4104-11*k5/40)
    Error <- abs(k1/360-128*k3/4275-2197*k4/75240+k5/50+2*k6/55)/h
    if(Error<=Tol){
      t=t+h
      times[1+i]<-t
      w=w+25*k1/216+1408*k3/2565+2197*k4/4104-k5/5
      sols[1+i]<- w
      real[1+i]<- y(times[1+i])
      error[i+1]<- abs(w-real[1+i])
      i<-i+1
    }
    d<- 0.84*((Tol/Error)^0.25)
    if(d<=0.1){
      h <- 0.1*h}
      else{
        if(d>=4){
          h <- 4*h }
          else{
            h <- d*h
          }
        }
    if(h>hmax){
      h<-hmax
    }
    if(t>=end){
      Flag <- 0}
      else{
```

```
        if(t+h>end) {
          h <- end-t
        } else{
          if(h<hmin){
            Flag <- 0
            return('tamaño de paso menor al minimo. Proceso terminado insatisfactoriamente')
          }
        }
      }

  }
  df <- data.frame(Tn=times, Yn=sols,Yo=real, ErrorRKF=error)
  return(df)
}
```

1. Vamos a trabajar con

$y' = y/t - (y/t)^2$ con $1 \leq t \leq 4$, $y(1) = 1$ y solución real: $y(t) = \frac{t}{1+\ln(t)}$.

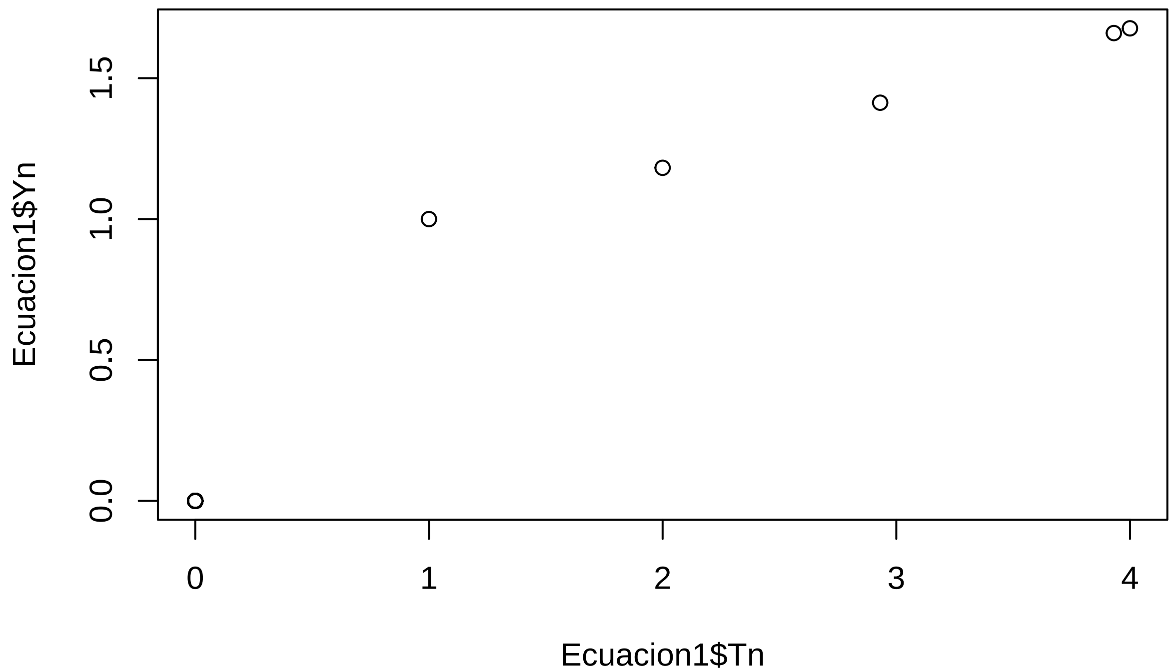
```
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.2 --
## v ggplot2 3.3.6      v purrr   0.3.5
## v tibble  3.1.8      v dplyr   1.0.10
## v tidyr   1.2.1      v stringr 1.4.1
## v readr   2.1.3      v forcats 0.5.2
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(latex2exp)
library(gridExtra)
```

```
##
## Attaching package: 'gridExtra'
##
## The following object is masked from 'package:dplyr':
##
##     combine
```

```
dy.dt<-function(t,y){y/t-(y/t)^2}
y<-function(t){t/(1+log(t))}
Ecuacion1<-RKF(dy.dt,y,hmax=1,hmin=.0001,start=1.0,end=4.0,Tol=10E-4,y0=1.0)
plot(Ecuacion1$Tn,Ecuacion1$Yn)
```




```
dy.dt<-function(t,y){1+y/t+(y/t)^2}
y<-function(t){t*tan(log(t))}
RKF(dy.dt,y,hmax=0.01,hmin=0.000001,start=1.0,end=3.0,Tol=0.0001,y0=0.0)
```

```
##          Tn          Yn          Yo     ErrorRKF
## 1      1.00 0.00000000 0.00000000 0.000000e+00
## 2      1.01 0.01005013 0.01005017 3.649517e-08
## 3      1.02 0.02020125 0.02020132 7.407309e-08
## 4      1.03 0.03045432 0.03045444 1.127488e-07
## 5      1.04 0.04081032 0.04081047 1.525375e-07
## 6      1.05 0.05127017 0.05127036 1.934550e-07
## 7      1.06 0.06183481 0.06183504 2.355173e-07
## 8      1.07 0.07250514 0.07250542 2.787407e-07
## 9      1.08 0.08328209 0.08328242 3.231419e-07
## 10     1.09 0.09416655 0.09416692 3.687380e-07
## 11     1.10 0.10515940 0.10515982 4.155463e-07
## 12     1.11 0.11626153 0.11626199 4.635845e-07
## 13     1.12 0.12747382 0.12747433 5.128707e-07
## 14     1.13 0.13879713 0.13879769 5.634233e-07
## 15     1.14 0.15023234 0.15023296 6.152611e-07
## 16     1.15 0.16178032 0.16178099 6.684032e-07
## 17     1.16 0.17344192 0.17344264 7.228691e-07
## 18     1.17 0.18521801 0.18521878 7.786786e-07
## 19     1.18 0.19710944 0.19711028 8.358520e-07
## 20     1.19 0.20911709 0.20911799 8.944098e-07
## 21     1.20 0.22124182 0.22124277 9.543730e-07
```

```
## 22    1.21 0.23348448 0.23348550 1.015763e-06
## 23    1.22 0.24584594 0.24584702 1.078602e-06
## 24    1.23 0.25832708 0.25832822 1.142911e-06
## 25    1.24 0.27092876 0.27092996 1.208714e-06
## 26    1.25 0.28365185 0.28365313 1.276032e-06
## 27    1.26 0.29649724 0.29649858 1.344891e-06
## 28    1.27 0.30946581 0.30946722 1.415313e-06
## 29    1.28 0.32255844 0.32255993 1.487322e-06
## 30    1.29 0.33577604 0.33577760 1.560945e-06
## 31    1.30 0.34911950 0.34912113 1.636204e-06
## 32    1.31 0.36258972 0.36259143 1.713127e-06
## 33    1.32 0.37618762 0.37618941 1.791739e-06
## 34    1.33 0.38991411 0.38991599 1.872067e-06
## 35    1.34 0.40377014 0.40377209 1.954138e-06
## 36    1.35 0.41775662 0.41775865 2.037979e-06
## 37    1.36 0.43187450 0.43187662 2.123618e-06
## 38    1.37 0.44612473 0.44612694 2.211084e-06
## 39    1.38 0.46050827 0.46051057 2.300406e-06
## 40    1.39 0.47502610 0.47502849 2.391614e-06
## 41    1.40 0.48967918 0.48968166 2.484737e-06
## 42    1.41 0.50446851 0.50447109 2.579806e-06
## 43    1.42 0.51939508 0.51939776 2.676853e-06
## 44    1.43 0.53445991 0.53446269 2.775910e-06
## 45    1.44 0.54966401 0.54966689 2.877008e-06
## 46    1.45 0.56500841 0.56501139 2.980180e-06
## 47    1.46 0.58049416 0.58049724 3.085461e-06
## 48    1.47 0.59612230 0.59612549 3.192884e-06
## 49    1.48 0.61189390 0.61189720 3.302485e-06
## 50    1.49 0.62781004 0.62781345 3.414298e-06
## 51    1.50 0.64387180 0.64387533 3.528360e-06
## 52    1.51 0.66008030 0.66008394 3.644708e-06
## 53    1.52 0.67643663 0.67644040 3.763379e-06
## 54    1.53 0.69294194 0.69294582 3.884411e-06
## 55    1.54 0.70959736 0.70960137 4.007844e-06
## 56    1.55 0.72640405 0.72640818 4.133716e-06
## 57    1.56 0.74336317 0.74336743 4.262068e-06
## 58    1.57 0.76047592 0.76048031 4.392942e-06
## 59    1.58 0.77774348 0.77774801 4.526379e-06
## 60    1.59 0.79516708 0.79517174 4.662421e-06
## 61    1.60 0.81274794 0.81275274 4.801113e-06
## 62    1.61 0.83048731 0.83049225 4.942498e-06
## 63    1.62 0.84838644 0.84839153 5.086622e-06
## 64    1.63 0.86644661 0.86645185 5.233530e-06
## 65    1.64 0.88466913 0.88467451 5.383270e-06
## 66    1.65 0.90305528 0.90306082 5.535889e-06
## 67    1.66 0.92160641 0.92161210 5.691435e-06
## 68    1.67 0.94032385 0.94032970 5.849959e-06
## 69    1.68 0.95920897 0.95921499 6.011511e-06
## 70    1.69 0.97826315 0.97826933 6.176141e-06
## 71    1.70 0.99748779 0.99749413 6.343904e-06
## 72    1.71 1.01688429 1.01689080 6.514852e-06
## 73    1.72 1.03645410 1.03646079 6.689039e-06
## 74    1.73 1.05619867 1.05620554 6.866522e-06
## 75    1.74 1.07611948 1.07612653 7.047356e-06
```

```
## 76    1.75 1.09621802 1.09622525 7.231600e-06
## 77    1.76 1.11649581 1.11650323 7.419313e-06
## 78    1.77 1.13695438 1.13696199 7.610554e-06
## 79    1.78 1.15759528 1.15760309 7.805384e-06
## 80    1.79 1.17842010 1.17842810 8.003866e-06
## 81    1.80 1.19943043 1.19943864 8.206064e-06
## 82    1.81 1.22062791 1.22063632 8.412042e-06
## 83    1.82 1.24201416 1.24202278 8.621866e-06
## 84    1.83 1.26359086 1.26359970 8.835604e-06
## 85    1.84 1.28535970 1.28536876 9.053325e-06
## 86    1.85 1.30732240 1.30733167 9.275098e-06
## 87    1.86 1.32948068 1.32949018 9.500996e-06
## 88    1.87 1.35183633 1.35184606 9.731091e-06
## 89    1.88 1.37439111 1.37440108 9.965457e-06
## 90    1.89 1.39714685 1.39715706 1.020417e-05
## 91    1.90 1.42010539 1.42011584 1.044731e-05
## 92    1.91 1.44326859 1.44327928 1.069495e-05
## 93    1.92 1.46663834 1.46664929 1.094718e-05
## 94    1.93 1.49021657 1.49022777 1.120407e-05
## 95    1.94 1.51400522 1.51401668 1.146572e-05
## 96    1.95 1.53800626 1.53801799 1.173220e-05
## 97    1.96 1.56222171 1.56223371 1.200360e-05
## 98    1.97 1.58665359 1.58666587 1.228002e-05
## 99    1.98 1.61130396 1.61131653 1.256154e-05
## 100   1.99 1.63617493 1.63618778 1.284825e-05
## 101   2.00 1.66126862 1.66128176 1.314026e-05
## 102   2.01 1.68658717 1.68660061 1.343765e-05
## 103   2.02 1.71213278 1.71214652 1.374054e-05
## 104   2.03 1.73790767 1.73792172 1.404900e-05
## 105   2.04 1.76391409 1.76392846 1.436316e-05
## 106   2.05 1.79015434 1.79016902 1.468312e-05
## 107   2.06 1.81663071 1.81664572 1.500898e-05
## 108   2.07 1.84334559 1.84336093 1.534085e-05
## 109   2.08 1.87030135 1.87031703 1.567884e-05
## 110   2.09 1.89750042 1.89751645 1.602307e-05
## 111   2.10 1.92494528 1.92496165 1.637366e-05
## 112   2.11 1.95263841 1.95265514 1.673072e-05
## 113   2.12 1.98058237 1.98059946 1.709438e-05
## 114   2.13 2.00877972 2.00879718 1.746476e-05
## 115   2.14 2.03723309 2.03725093 1.784198e-05
## 116   2.15 2.06594514 2.06596337 1.822619e-05
## 117   2.16 2.09491857 2.09493719 1.861750e-05
## 118   2.17 2.12415612 2.12417514 1.901605e-05
## 119   2.18 2.15366057 2.15368000 1.942199e-05
## 120   2.19 2.18343476 2.18345460 1.983546e-05
## 121   2.20 2.21348156 2.21350181 2.025659e-05
## 122   2.21 2.24380388 2.24382456 2.068554e-05
## 123   2.22 2.27440469 2.27442581 2.112246e-05
## 124   2.23 2.30528700 2.30530856 2.156750e-05
## 125   2.24 2.33645386 2.33647588 2.202082e-05
## 126   2.25 2.36790840 2.36793088 2.248258e-05
## 127   2.26 2.39965376 2.39967671 2.295295e-05
## 128   2.27 2.43169315 2.43171659 2.343209e-05
## 129   2.28 2.46402984 2.46405376 2.392018e-05
```

```
## 130   2.29 2.49666713 2.49669155 2.441740e-05
## 131   2.30 2.52960840 2.52963332 2.492391e-05
## 132   2.31 2.56285706 2.56288250 2.543992e-05
## 133   2.32 2.59641659 2.59644255 2.596560e-05
## 134   2.33 2.63029053 2.63031703 2.650115e-05
## 135   2.34 2.66448246 2.66450951 2.704677e-05
## 136   2.35 2.69899605 2.69902365 2.760266e-05
## 137   2.36 2.73383500 2.73386317 2.816902e-05
## 138   2.37 2.76900308 2.76903183 2.874607e-05
## 139   2.38 2.80450415 2.80453348 2.933402e-05
## 140   2.39 2.84034209 2.84037202 2.993309e-05
## 141   2.40 2.87652088 2.87655142 3.054352e-05
## 142   2.41 2.91304454 2.91307571 3.116553e-05
## 143   2.42 2.94991720 2.94994900 3.179936e-05
## 144   2.43 2.98714301 2.98717545 3.244525e-05
## 145   2.44 3.02472622 3.02475932 3.310346e-05
## 146   2.45 3.06267115 3.06270493 3.377423e-05
## 147   2.46 3.10098220 3.10101665 3.445783e-05
## 148   2.47 3.13966382 3.13969898 3.515452e-05
## 149   2.48 3.17872057 3.17875644 3.586459e-05
## 150   2.49 3.21815708 3.21819367 3.658830e-05
## 151   2.50 3.25797804 3.25801536 3.732595e-05
## 152   2.51 3.29818825 3.29822632 3.807782e-05
## 153   2.52 3.33879257 3.33883142 3.884423e-05
## 154   2.53 3.37979598 3.37983561 3.962548e-05
## 155   2.54 3.42120352 3.42124394 4.042188e-05
## 156   2.55 3.46302033 3.46306156 4.123377e-05
## 157   2.56 3.50525163 3.50529369 4.206147e-05
## 158   2.57 3.54790276 3.54794566 4.290532e-05
## 159   2.58 3.59097913 3.59102290 4.376567e-05
## 160   2.59 3.63448627 3.63453091 4.464289e-05
## 161   2.60 3.67842979 3.67847533 4.553733e-05
## 162   2.61 3.72281543 3.72286188 4.644938e-05
## 163   2.62 3.76764901 3.76769639 4.737942e-05
## 164   2.63 3.81293646 3.81298479 4.832784e-05
## 165   2.64 3.85868385 3.85873314 4.929506e-05
## 166   2.65 3.90489732 3.90494760 5.028148e-05
## 167   2.66 3.95158315 3.95163444 5.128755e-05
## 168   2.67 3.99874775 3.99880006 5.231368e-05
## 169   2.68 4.04639762 4.04645098 5.336034e-05
## 170   2.69 4.09453940 4.09459383 5.442799e-05
## 171   2.70 4.14317986 4.14323538 5.551710e-05
## 172   2.71 4.19232590 4.19238252 5.662816e-05
## 173   2.72 4.24198454 4.24204230 5.776166e-05
## 174   2.73 4.29216295 4.29222187 5.891813e-05
## 175   2.74 4.34286844 4.34292853 6.009808e-05
## 176   2.75 4.39410844 4.39416974 6.130206e-05
## 177   2.76 4.44589056 4.44595309 6.253062e-05
## 178   2.77 4.49822254 4.49828632 6.378434e-05
## 179   2.78 4.55111227 4.55117733 6.506379e-05
## 180   2.79 4.60456780 4.60463417 6.636959e-05
## 181   2.80 4.65859736 4.65866506 6.770235e-05
## 182   2.81 4.71320931 4.71327837 6.906271e-05
## 183   2.82 4.76841222 4.76848267 7.045132e-05
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## 184   2.83 4.82421479 4.82428666 7.186885e-05
## 185   2.84 4.88062595 4.88069926 7.331599e-05
## 186   2.85 4.93765475 4.93772954 7.479346e-05
## 187   2.86 4.99531048 4.99538678 7.630199e-05
## 188   2.87 5.05360260 5.05368044 7.784232e-05
## 189   2.88 5.11254077 5.11262018 7.941523e-05
## 190   2.89 5.17213484 5.17221586 8.102151e-05
## 191   2.90 5.23239489 5.23247755 8.266199e-05
## 192   2.91 5.29333120 5.29341553 8.433750e-05
## 193   2.92 5.35495426 5.35504031 8.604891e-05
## 194   2.93 5.41727481 5.41736260 8.779711e-05
## 195   2.94 5.48030379 5.48039337 8.958302e-05
## 196   2.95 5.54405239 5.54414380 9.140759e-05
## 197   2.96 5.60853206 5.60862533 9.327178e-05
## 198   2.97 5.67375446 5.67384964 9.517661e-05
## 199   2.98 5.73973155 5.73982867 9.712309e-05
## 200   2.99 5.80647551 5.80657463 9.911230e-05
## 201   3.00 5.87399883 5.87409998 1.011453e-04
## 202   3.00 5.87399883 5.87409998 1.011453e-04
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## 569   0.00 0.00000000 0.00000000 0.000000e+00
## 570   0.00 0.00000000 0.00000000 0.000000e+00
## 571   0.00 0.00000000 0.00000000 0.000000e+00
## 572   0.00 0.00000000 0.00000000 0.000000e+00
## 573   0.00 0.00000000 0.00000000 0.000000e+00
## 574   0.00 0.00000000 0.00000000 0.000000e+00
## 575   0.00 0.00000000 0.00000000 0.000000e+00
## 576   0.00 0.00000000 0.00000000 0.000000e+00
## 577   0.00 0.00000000 0.00000000 0.000000e+00
## 578   0.00 0.00000000 0.00000000 0.000000e+00
## 579   0.00 0.00000000 0.00000000 0.000000e+00
## 580   0.00 0.00000000 0.00000000 0.000000e+00
## 581   0.00 0.00000000 0.00000000 0.000000e+00
## 582   0.00 0.00000000 0.00000000 0.000000e+00
## 583   0.00 0.00000000 0.00000000 0.000000e+00
## 584   0.00 0.00000000 0.00000000 0.000000e+00
## 585   0.00 0.00000000 0.00000000 0.000000e+00
## 586   0.00 0.00000000 0.00000000 0.000000e+00
## 587   0.00 0.00000000 0.00000000 0.000000e+00
## 588   0.00 0.00000000 0.00000000 0.000000e+00
## 589   0.00 0.00000000 0.00000000 0.000000e+00
## 590   0.00 0.00000000 0.00000000 0.000000e+00
## 591   0.00 0.00000000 0.00000000 0.000000e+00
## 592   0.00 0.00000000 0.00000000 0.000000e+00
## 593   0.00 0.00000000 0.00000000 0.000000e+00
## 594   0.00 0.00000000 0.00000000 0.000000e+00
## 595   0.00 0.00000000 0.00000000 0.000000e+00
## 596   0.00 0.00000000 0.00000000 0.000000e+00
## 597   0.00 0.00000000 0.00000000 0.000000e+00
## 598   0.00 0.00000000 0.00000000 0.000000e+00
## 599   0.00 0.00000000 0.00000000 0.000000e+00
## 600   0.00 0.00000000 0.00000000 0.000000e+00
## 601   0.00 0.00000000 0.00000000 0.000000e+00
## 602   0.00 0.00000000 0.00000000 0.000000e+00
## 603   0.00 0.00000000 0.00000000 0.000000e+00
## 604   0.00 0.00000000 0.00000000 0.000000e+00
## 605   0.00 0.00000000 0.00000000 0.000000e+00
## 606   0.00 0.00000000 0.00000000 0.000000e+00
## 607   0.00 0.00000000 0.00000000 0.000000e+00
## 608   0.00 0.00000000 0.00000000 0.000000e+00
## 609   0.00 0.00000000 0.00000000 0.000000e+00
## 610   0.00 0.00000000 0.00000000 0.000000e+00
## 611   0.00 0.00000000 0.00000000 0.000000e+00
## 612   0.00 0.00000000 0.00000000 0.000000e+00
## 613   0.00 0.00000000 0.00000000 0.000000e+00
## 614   0.00 0.00000000 0.00000000 0.000000e+00
## 615   0.00 0.00000000 0.00000000 0.000000e+00
```

```
## 616   0.00 0.00000000 0.00000000 0.000000e+00
## 617   0.00 0.00000000 0.00000000 0.000000e+00
## 618   0.00 0.00000000 0.00000000 0.000000e+00
## 619   0.00 0.00000000 0.00000000 0.000000e+00
## 620   0.00 0.00000000 0.00000000 0.000000e+00
## 621   0.00 0.00000000 0.00000000 0.000000e+00
## 622   0.00 0.00000000 0.00000000 0.000000e+00
## 623   0.00 0.00000000 0.00000000 0.000000e+00
## 624   0.00 0.00000000 0.00000000 0.000000e+00
## 625   0.00 0.00000000 0.00000000 0.000000e+00
## 626   0.00 0.00000000 0.00000000 0.000000e+00
## 627   0.00 0.00000000 0.00000000 0.000000e+00
## 628   0.00 0.00000000 0.00000000 0.000000e+00
## 629   0.00 0.00000000 0.00000000 0.000000e+00
## 630   0.00 0.00000000 0.00000000 0.000000e+00
## 631   0.00 0.00000000 0.00000000 0.000000e+00
## 632   0.00 0.00000000 0.00000000 0.000000e+00
## 633   0.00 0.00000000 0.00000000 0.000000e+00
## 634   0.00 0.00000000 0.00000000 0.000000e+00
## 635   0.00 0.00000000 0.00000000 0.000000e+00
## 636   0.00 0.00000000 0.00000000 0.000000e+00
## 637   0.00 0.00000000 0.00000000 0.000000e+00
## 638   0.00 0.00000000 0.00000000 0.000000e+00
## 639   0.00 0.00000000 0.00000000 0.000000e+00
## 640   0.00 0.00000000 0.00000000 0.000000e+00
## 641   0.00 0.00000000 0.00000000 0.000000e+00
## 642   0.00 0.00000000 0.00000000 0.000000e+00
## 643   0.00 0.00000000 0.00000000 0.000000e+00
## 644   0.00 0.00000000 0.00000000 0.000000e+00
## 645   0.00 0.00000000 0.00000000 0.000000e+00
## 646   0.00 0.00000000 0.00000000 0.000000e+00
## 647   0.00 0.00000000 0.00000000 0.000000e+00
## 648   0.00 0.00000000 0.00000000 0.000000e+00
## 649   0.00 0.00000000 0.00000000 0.000000e+00
## 650   0.00 0.00000000 0.00000000 0.000000e+00
## 651   0.00 0.00000000 0.00000000 0.000000e+00
## 652   0.00 0.00000000 0.00000000 0.000000e+00
## 653   0.00 0.00000000 0.00000000 0.000000e+00
## 654   0.00 0.00000000 0.00000000 0.000000e+00
## 655   0.00 0.00000000 0.00000000 0.000000e+00
## 656   0.00 0.00000000 0.00000000 0.000000e+00
## 657   0.00 0.00000000 0.00000000 0.000000e+00
## 658   0.00 0.00000000 0.00000000 0.000000e+00
## 659   0.00 0.00000000 0.00000000 0.000000e+00
## 660   0.00 0.00000000 0.00000000 0.000000e+00
## 661   0.00 0.00000000 0.00000000 0.000000e+00
## 662   0.00 0.00000000 0.00000000 0.000000e+00
## 663   0.00 0.00000000 0.00000000 0.000000e+00
## 664   0.00 0.00000000 0.00000000 0.000000e+00
## 665   0.00 0.00000000 0.00000000 0.000000e+00
## 666   0.00 0.00000000 0.00000000 0.000000e+00
## 667   0.00 0.00000000 0.00000000 0.000000e+00
## 668   0.00 0.00000000 0.00000000 0.000000e+00
## 669   0.00 0.00000000 0.00000000 0.000000e+00
```

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## 670   0.00 0.00000000 0.00000000 0.000000e+00
## 671   0.00 0.00000000 0.00000000 0.000000e+00
## 672   0.00 0.00000000 0.00000000 0.000000e+00
## 673   0.00 0.00000000 0.00000000 0.000000e+00
## 674   0.00 0.00000000 0.00000000 0.000000e+00
## 675   0.00 0.00000000 0.00000000 0.000000e+00
## 676   0.00 0.00000000 0.00000000 0.000000e+00
## 677   0.00 0.00000000 0.00000000 0.000000e+00
## 678   0.00 0.00000000 0.00000000 0.000000e+00
## 679   0.00 0.00000000 0.00000000 0.000000e+00
## 680   0.00 0.00000000 0.00000000 0.000000e+00
## 681   0.00 0.00000000 0.00000000 0.000000e+00
## 682   0.00 0.00000000 0.00000000 0.000000e+00
## 683   0.00 0.00000000 0.00000000 0.000000e+00
## 684   0.00 0.00000000 0.00000000 0.000000e+00
## 685   0.00 0.00000000 0.00000000 0.000000e+00
## 686   0.00 0.00000000 0.00000000 0.000000e+00
## 687   0.00 0.00000000 0.00000000 0.000000e+00
## 688   0.00 0.00000000 0.00000000 0.000000e+00
## 689   0.00 0.00000000 0.00000000 0.000000e+00
## 690   0.00 0.00000000 0.00000000 0.000000e+00
## 691   0.00 0.00000000 0.00000000 0.000000e+00
## 692   0.00 0.00000000 0.00000000 0.000000e+00
## 693   0.00 0.00000000 0.00000000 0.000000e+00
## 694   0.00 0.00000000 0.00000000 0.000000e+00
## 695   0.00 0.00000000 0.00000000 0.000000e+00
## 696   0.00 0.00000000 0.00000000 0.000000e+00
## 697   0.00 0.00000000 0.00000000 0.000000e+00
## 698   0.00 0.00000000 0.00000000 0.000000e+00
## 699   0.00 0.00000000 0.00000000 0.000000e+00
## 700   0.00 0.00000000 0.00000000 0.000000e+00
## 701   0.00 0.00000000 0.00000000 0.000000e+00
## 702   0.00 0.00000000 0.00000000 0.000000e+00
## 703   0.00 0.00000000 0.00000000 0.000000e+00
## 704   0.00 0.00000000 0.00000000 0.000000e+00
## 705   0.00 0.00000000 0.00000000 0.000000e+00
## 706   0.00 0.00000000 0.00000000 0.000000e+00
## 707   0.00 0.00000000 0.00000000 0.000000e+00
## 708   0.00 0.00000000 0.00000000 0.000000e+00
## 709   0.00 0.00000000 0.00000000 0.000000e+00
## 710   0.00 0.00000000 0.00000000 0.000000e+00
## 711   0.00 0.00000000 0.00000000 0.000000e+00
## 712   0.00 0.00000000 0.00000000 0.000000e+00
## 713   0.00 0.00000000 0.00000000 0.000000e+00
## 714   0.00 0.00000000 0.00000000 0.000000e+00
## 715   0.00 0.00000000 0.00000000 0.000000e+00
## 716   0.00 0.00000000 0.00000000 0.000000e+00
## 717   0.00 0.00000000 0.00000000 0.000000e+00
## 718   0.00 0.00000000 0.00000000 0.000000e+00
## 719   0.00 0.00000000 0.00000000 0.000000e+00
## 720   0.00 0.00000000 0.00000000 0.000000e+00
## 721   0.00 0.00000000 0.00000000 0.000000e+00
## 722   0.00 0.00000000 0.00000000 0.000000e+00
## 723   0.00 0.00000000 0.00000000 0.000000e+00
```

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## 724   0.00 0.00000000 0.00000000 0.000000e+00
## 725   0.00 0.00000000 0.00000000 0.000000e+00
## 726   0.00 0.00000000 0.00000000 0.000000e+00
## 727   0.00 0.00000000 0.00000000 0.000000e+00
## 728   0.00 0.00000000 0.00000000 0.000000e+00
## 729   0.00 0.00000000 0.00000000 0.000000e+00
## 730   0.00 0.00000000 0.00000000 0.000000e+00
## 731   0.00 0.00000000 0.00000000 0.000000e+00
## 732   0.00 0.00000000 0.00000000 0.000000e+00
## 733   0.00 0.00000000 0.00000000 0.000000e+00
## 734   0.00 0.00000000 0.00000000 0.000000e+00
## 735   0.00 0.00000000 0.00000000 0.000000e+00
## 736   0.00 0.00000000 0.00000000 0.000000e+00
## 737   0.00 0.00000000 0.00000000 0.000000e+00
## 738   0.00 0.00000000 0.00000000 0.000000e+00
## 739   0.00 0.00000000 0.00000000 0.000000e+00
## 740   0.00 0.00000000 0.00000000 0.000000e+00
## 741   0.00 0.00000000 0.00000000 0.000000e+00
## 742   0.00 0.00000000 0.00000000 0.000000e+00
## 743   0.00 0.00000000 0.00000000 0.000000e+00
## 744   0.00 0.00000000 0.00000000 0.000000e+00
## 745   0.00 0.00000000 0.00000000 0.000000e+00
## 746   0.00 0.00000000 0.00000000 0.000000e+00
## 747   0.00 0.00000000 0.00000000 0.000000e+00
## 748   0.00 0.00000000 0.00000000 0.000000e+00
## 749   0.00 0.00000000 0.00000000 0.000000e+00
## 750   0.00 0.00000000 0.00000000 0.000000e+00
## 751   0.00 0.00000000 0.00000000 0.000000e+00
## 752   0.00 0.00000000 0.00000000 0.000000e+00
## 753   0.00 0.00000000 0.00000000 0.000000e+00
## 754   0.00 0.00000000 0.00000000 0.000000e+00
## 755   0.00 0.00000000 0.00000000 0.000000e+00
## 756   0.00 0.00000000 0.00000000 0.000000e+00
## 757   0.00 0.00000000 0.00000000 0.000000e+00
## 758   0.00 0.00000000 0.00000000 0.000000e+00
## 759   0.00 0.00000000 0.00000000 0.000000e+00
## 760   0.00 0.00000000 0.00000000 0.000000e+00
## 761   0.00 0.00000000 0.00000000 0.000000e+00
## 762   0.00 0.00000000 0.00000000 0.000000e+00
## 763   0.00 0.00000000 0.00000000 0.000000e+00
## 764   0.00 0.00000000 0.00000000 0.000000e+00
## 765   0.00 0.00000000 0.00000000 0.000000e+00
## 766   0.00 0.00000000 0.00000000 0.000000e+00
## 767   0.00 0.00000000 0.00000000 0.000000e+00
## 768   0.00 0.00000000 0.00000000 0.000000e+00
## 769   0.00 0.00000000 0.00000000 0.000000e+00
## 770   0.00 0.00000000 0.00000000 0.000000e+00
## 771   0.00 0.00000000 0.00000000 0.000000e+00
## 772   0.00 0.00000000 0.00000000 0.000000e+00
## 773   0.00 0.00000000 0.00000000 0.000000e+00
## 774   0.00 0.00000000 0.00000000 0.000000e+00
## 775   0.00 0.00000000 0.00000000 0.000000e+00
## 776   0.00 0.00000000 0.00000000 0.000000e+00
## 777   0.00 0.00000000 0.00000000 0.000000e+00
```

```
## 778   0.00 0.00000000 0.00000000 0.000000e+00
## 779   0.00 0.00000000 0.00000000 0.000000e+00
## 780   0.00 0.00000000 0.00000000 0.000000e+00
## 781   0.00 0.00000000 0.00000000 0.000000e+00
## 782   0.00 0.00000000 0.00000000 0.000000e+00
## 783   0.00 0.00000000 0.00000000 0.000000e+00
## 784   0.00 0.00000000 0.00000000 0.000000e+00
## 785   0.00 0.00000000 0.00000000 0.000000e+00
## 786   0.00 0.00000000 0.00000000 0.000000e+00
## 787   0.00 0.00000000 0.00000000 0.000000e+00
## 788   0.00 0.00000000 0.00000000 0.000000e+00
## 789   0.00 0.00000000 0.00000000 0.000000e+00
## 790   0.00 0.00000000 0.00000000 0.000000e+00
## 791   0.00 0.00000000 0.00000000 0.000000e+00
## 792   0.00 0.00000000 0.00000000 0.000000e+00
## 793   0.00 0.00000000 0.00000000 0.000000e+00
## 794   0.00 0.00000000 0.00000000 0.000000e+00
## 795   0.00 0.00000000 0.00000000 0.000000e+00
## 796   0.00 0.00000000 0.00000000 0.000000e+00
## 797   0.00 0.00000000 0.00000000 0.000000e+00
## 798   0.00 0.00000000 0.00000000 0.000000e+00
## 799   0.00 0.00000000 0.00000000 0.000000e+00
## 800   0.00 0.00000000 0.00000000 0.000000e+00
## 801   0.00 0.00000000 0.00000000 0.000000e+00
## 802   0.00 0.00000000 0.00000000 0.000000e+00
## 803   0.00 0.00000000 0.00000000 0.000000e+00
## 804   0.00 0.00000000 0.00000000 0.000000e+00
## 805   0.00 0.00000000 0.00000000 0.000000e+00
## 806   0.00 0.00000000 0.00000000 0.000000e+00
## 807   0.00 0.00000000 0.00000000 0.000000e+00
## 808   0.00 0.00000000 0.00000000 0.000000e+00
## 809   0.00 0.00000000 0.00000000 0.000000e+00
## 810   0.00 0.00000000 0.00000000 0.000000e+00
## 811   0.00 0.00000000 0.00000000 0.000000e+00
## 812   0.00 0.00000000 0.00000000 0.000000e+00
## 813   0.00 0.00000000 0.00000000 0.000000e+00
## 814   0.00 0.00000000 0.00000000 0.000000e+00
## 815   0.00 0.00000000 0.00000000 0.000000e+00
## 816   0.00 0.00000000 0.00000000 0.000000e+00
## 817   0.00 0.00000000 0.00000000 0.000000e+00
## 818   0.00 0.00000000 0.00000000 0.000000e+00
## 819   0.00 0.00000000 0.00000000 0.000000e+00
## 820   0.00 0.00000000 0.00000000 0.000000e+00
## 821   0.00 0.00000000 0.00000000 0.000000e+00
## 822   0.00 0.00000000 0.00000000 0.000000e+00
## 823   0.00 0.00000000 0.00000000 0.000000e+00
## 824   0.00 0.00000000 0.00000000 0.000000e+00
## 825   0.00 0.00000000 0.00000000 0.000000e+00
## 826   0.00 0.00000000 0.00000000 0.000000e+00
## 827   0.00 0.00000000 0.00000000 0.000000e+00
## 828   0.00 0.00000000 0.00000000 0.000000e+00
## 829   0.00 0.00000000 0.00000000 0.000000e+00
## 830   0.00 0.00000000 0.00000000 0.000000e+00
## 831   0.00 0.00000000 0.00000000 0.000000e+00
```

```
## 832   0.00 0.00000000 0.00000000 0.000000e+00
## 833   0.00 0.00000000 0.00000000 0.000000e+00
## 834   0.00 0.00000000 0.00000000 0.000000e+00
## 835   0.00 0.00000000 0.00000000 0.000000e+00
## 836   0.00 0.00000000 0.00000000 0.000000e+00
## 837   0.00 0.00000000 0.00000000 0.000000e+00
## 838   0.00 0.00000000 0.00000000 0.000000e+00
## 839   0.00 0.00000000 0.00000000 0.000000e+00
## 840   0.00 0.00000000 0.00000000 0.000000e+00
## 841   0.00 0.00000000 0.00000000 0.000000e+00
## 842   0.00 0.00000000 0.00000000 0.000000e+00
## 843   0.00 0.00000000 0.00000000 0.000000e+00
## 844   0.00 0.00000000 0.00000000 0.000000e+00
## 845   0.00 0.00000000 0.00000000 0.000000e+00
## 846   0.00 0.00000000 0.00000000 0.000000e+00
## 847   0.00 0.00000000 0.00000000 0.000000e+00
## 848   0.00 0.00000000 0.00000000 0.000000e+00
## 849   0.00 0.00000000 0.00000000 0.000000e+00
## 850   0.00 0.00000000 0.00000000 0.000000e+00
## 851   0.00 0.00000000 0.00000000 0.000000e+00
## 852   0.00 0.00000000 0.00000000 0.000000e+00
## 853   0.00 0.00000000 0.00000000 0.000000e+00
## 854   0.00 0.00000000 0.00000000 0.000000e+00
## 855   0.00 0.00000000 0.00000000 0.000000e+00
## 856   0.00 0.00000000 0.00000000 0.000000e+00
## 857   0.00 0.00000000 0.00000000 0.000000e+00
## 858   0.00 0.00000000 0.00000000 0.000000e+00
## 859   0.00 0.00000000 0.00000000 0.000000e+00
## 860   0.00 0.00000000 0.00000000 0.000000e+00
## 861   0.00 0.00000000 0.00000000 0.000000e+00
## 862   0.00 0.00000000 0.00000000 0.000000e+00
## 863   0.00 0.00000000 0.00000000 0.000000e+00
## 864   0.00 0.00000000 0.00000000 0.000000e+00
## 865   0.00 0.00000000 0.00000000 0.000000e+00
## 866   0.00 0.00000000 0.00000000 0.000000e+00
## 867   0.00 0.00000000 0.00000000 0.000000e+00
## 868   0.00 0.00000000 0.00000000 0.000000e+00
## 869   0.00 0.00000000 0.00000000 0.000000e+00
## 870   0.00 0.00000000 0.00000000 0.000000e+00
## 871   0.00 0.00000000 0.00000000 0.000000e+00
## 872   0.00 0.00000000 0.00000000 0.000000e+00
## 873   0.00 0.00000000 0.00000000 0.000000e+00
## 874   0.00 0.00000000 0.00000000 0.000000e+00
## 875   0.00 0.00000000 0.00000000 0.000000e+00
## 876   0.00 0.00000000 0.00000000 0.000000e+00
## 877   0.00 0.00000000 0.00000000 0.000000e+00
## 878   0.00 0.00000000 0.00000000 0.000000e+00
## 879   0.00 0.00000000 0.00000000 0.000000e+00
## 880   0.00 0.00000000 0.00000000 0.000000e+00
## 881   0.00 0.00000000 0.00000000 0.000000e+00
## 882   0.00 0.00000000 0.00000000 0.000000e+00
## 883   0.00 0.00000000 0.00000000 0.000000e+00
## 884   0.00 0.00000000 0.00000000 0.000000e+00
## 885   0.00 0.00000000 0.00000000 0.000000e+00
```

```
## 886   0.00 0.00000000 0.00000000 0.000000e+00
## 887   0.00 0.00000000 0.00000000 0.000000e+00
## 888   0.00 0.00000000 0.00000000 0.000000e+00
## 889   0.00 0.00000000 0.00000000 0.000000e+00
## 890   0.00 0.00000000 0.00000000 0.000000e+00
## 891   0.00 0.00000000 0.00000000 0.000000e+00
## 892   0.00 0.00000000 0.00000000 0.000000e+00
## 893   0.00 0.00000000 0.00000000 0.000000e+00
## 894   0.00 0.00000000 0.00000000 0.000000e+00
## 895   0.00 0.00000000 0.00000000 0.000000e+00
## 896   0.00 0.00000000 0.00000000 0.000000e+00
## 897   0.00 0.00000000 0.00000000 0.000000e+00
## 898   0.00 0.00000000 0.00000000 0.000000e+00
## 899   0.00 0.00000000 0.00000000 0.000000e+00
## 900   0.00 0.00000000 0.00000000 0.000000e+00
## 901   0.00 0.00000000 0.00000000 0.000000e+00
## 902   0.00 0.00000000 0.00000000 0.000000e+00
## 903   0.00 0.00000000 0.00000000 0.000000e+00
## 904   0.00 0.00000000 0.00000000 0.000000e+00
## 905   0.00 0.00000000 0.00000000 0.000000e+00
## 906   0.00 0.00000000 0.00000000 0.000000e+00
## 907   0.00 0.00000000 0.00000000 0.000000e+00
## 908   0.00 0.00000000 0.00000000 0.000000e+00
## 909   0.00 0.00000000 0.00000000 0.000000e+00
## 910   0.00 0.00000000 0.00000000 0.000000e+00
## 911   0.00 0.00000000 0.00000000 0.000000e+00
## 912   0.00 0.00000000 0.00000000 0.000000e+00
## 913   0.00 0.00000000 0.00000000 0.000000e+00
## 914   0.00 0.00000000 0.00000000 0.000000e+00
## 915   0.00 0.00000000 0.00000000 0.000000e+00
## 916   0.00 0.00000000 0.00000000 0.000000e+00
## 917   0.00 0.00000000 0.00000000 0.000000e+00
## 918   0.00 0.00000000 0.00000000 0.000000e+00
## 919   0.00 0.00000000 0.00000000 0.000000e+00
## 920   0.00 0.00000000 0.00000000 0.000000e+00
## 921   0.00 0.00000000 0.00000000 0.000000e+00
## 922   0.00 0.00000000 0.00000000 0.000000e+00
## 923   0.00 0.00000000 0.00000000 0.000000e+00
## 924   0.00 0.00000000 0.00000000 0.000000e+00
## 925   0.00 0.00000000 0.00000000 0.000000e+00
## 926   0.00 0.00000000 0.00000000 0.000000e+00
## 927   0.00 0.00000000 0.00000000 0.000000e+00
## 928   0.00 0.00000000 0.00000000 0.000000e+00
## 929   0.00 0.00000000 0.00000000 0.000000e+00
## 930   0.00 0.00000000 0.00000000 0.000000e+00
## 931   0.00 0.00000000 0.00000000 0.000000e+00
## 932   0.00 0.00000000 0.00000000 0.000000e+00
## 933   0.00 0.00000000 0.00000000 0.000000e+00
## 934   0.00 0.00000000 0.00000000 0.000000e+00
## 935   0.00 0.00000000 0.00000000 0.000000e+00
## 936   0.00 0.00000000 0.00000000 0.000000e+00
## 937   0.00 0.00000000 0.00000000 0.000000e+00
## 938   0.00 0.00000000 0.00000000 0.000000e+00
## 939   0.00 0.00000000 0.00000000 0.000000e+00
```

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## 940   0.00 0.00000000 0.00000000 0.000000e+00
## 941   0.00 0.00000000 0.00000000 0.000000e+00
## 942   0.00 0.00000000 0.00000000 0.000000e+00
## 943   0.00 0.00000000 0.00000000 0.000000e+00
## 944   0.00 0.00000000 0.00000000 0.000000e+00
## 945   0.00 0.00000000 0.00000000 0.000000e+00
## 946   0.00 0.00000000 0.00000000 0.000000e+00
## 947   0.00 0.00000000 0.00000000 0.000000e+00
## 948   0.00 0.00000000 0.00000000 0.000000e+00
## 949   0.00 0.00000000 0.00000000 0.000000e+00
## 950   0.00 0.00000000 0.00000000 0.000000e+00
## 951   0.00 0.00000000 0.00000000 0.000000e+00
## 952   0.00 0.00000000 0.00000000 0.000000e+00
## 953   0.00 0.00000000 0.00000000 0.000000e+00
## 954   0.00 0.00000000 0.00000000 0.000000e+00
## 955   0.00 0.00000000 0.00000000 0.000000e+00
## 956   0.00 0.00000000 0.00000000 0.000000e+00
## 957   0.00 0.00000000 0.00000000 0.000000e+00
## 958   0.00 0.00000000 0.00000000 0.000000e+00
## 959   0.00 0.00000000 0.00000000 0.000000e+00
## 960   0.00 0.00000000 0.00000000 0.000000e+00
## 961   0.00 0.00000000 0.00000000 0.000000e+00
## 962   0.00 0.00000000 0.00000000 0.000000e+00
## 963   0.00 0.00000000 0.00000000 0.000000e+00
## 964   0.00 0.00000000 0.00000000 0.000000e+00
## 965   0.00 0.00000000 0.00000000 0.000000e+00
## 966   0.00 0.00000000 0.00000000 0.000000e+00
## 967   0.00 0.00000000 0.00000000 0.000000e+00
## 968   0.00 0.00000000 0.00000000 0.000000e+00
## 969   0.00 0.00000000 0.00000000 0.000000e+00
## 970   0.00 0.00000000 0.00000000 0.000000e+00
## 971   0.00 0.00000000 0.00000000 0.000000e+00
## 972   0.00 0.00000000 0.00000000 0.000000e+00
## 973   0.00 0.00000000 0.00000000 0.000000e+00
## 974   0.00 0.00000000 0.00000000 0.000000e+00
## 975   0.00 0.00000000 0.00000000 0.000000e+00
## 976   0.00 0.00000000 0.00000000 0.000000e+00
## 977   0.00 0.00000000 0.00000000 0.000000e+00
## 978   0.00 0.00000000 0.00000000 0.000000e+00
## 979   0.00 0.00000000 0.00000000 0.000000e+00
## 980   0.00 0.00000000 0.00000000 0.000000e+00
## 981   0.00 0.00000000 0.00000000 0.000000e+00
## 982   0.00 0.00000000 0.00000000 0.000000e+00
## 983   0.00 0.00000000 0.00000000 0.000000e+00
## 984   0.00 0.00000000 0.00000000 0.000000e+00
## 985   0.00 0.00000000 0.00000000 0.000000e+00
## 986   0.00 0.00000000 0.00000000 0.000000e+00
## 987   0.00 0.00000000 0.00000000 0.000000e+00
## 988   0.00 0.00000000 0.00000000 0.000000e+00
## 989   0.00 0.00000000 0.00000000 0.000000e+00
## 990   0.00 0.00000000 0.00000000 0.000000e+00
## 991   0.00 0.00000000 0.00000000 0.000000e+00
## 992   0.00 0.00000000 0.00000000 0.000000e+00
## 993   0.00 0.00000000 0.00000000 0.000000e+00
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## 994    0.00 0.00000000 0.00000000 0.000000e+00
## 995    0.00 0.00000000 0.00000000 0.000000e+00
## 996    0.00 0.00000000 0.00000000 0.000000e+00
## 997    0.00 0.00000000 0.00000000 0.000000e+00
## 998    0.00 0.00000000 0.00000000 0.000000e+00
## 999    0.00 0.00000000 0.00000000 0.000000e+00
## 1000   0.00 0.00000000 0.00000000 0.000000e+00
## 1001   0.00 0.00000000 0.00000000 0.000000e+00
## 1002   0.00 0.00000000 0.00000000 0.000000e+00
## 1003   0.00 0.00000000 0.00000000 0.000000e+00
## 1004   0.00 0.00000000 0.00000000 0.000000e+00
## 1005   0.00 0.00000000 0.00000000 0.000000e+00
## 1006   0.00 0.00000000 0.00000000 0.000000e+00
## 1007   0.00 0.00000000 0.00000000 0.000000e+00
## 1008   0.00 0.00000000 0.00000000 0.000000e+00
## 1009   0.00 0.00000000 0.00000000 0.000000e+00
## 1010   0.00 0.00000000 0.00000000 0.000000e+00
## 1011   0.00 0.00000000 0.00000000 0.000000e+00
## 1012   0.00 0.00000000 0.00000000 0.000000e+00
## 1013   0.00 0.00000000 0.00000000 0.000000e+00
## 1014   0.00 0.00000000 0.00000000 0.000000e+00
## 1015   0.00 0.00000000 0.00000000 0.000000e+00
## 1016   0.00 0.00000000 0.00000000 0.000000e+00
## 1017   0.00 0.00000000 0.00000000 0.000000e+00
## 1018   0.00 0.00000000 0.00000000 0.000000e+00
## 1019   0.00 0.00000000 0.00000000 0.000000e+00
## 1020   0.00 0.00000000 0.00000000 0.000000e+00
## 1021   0.00 0.00000000 0.00000000 0.000000e+00
## 1022   0.00 0.00000000 0.00000000 0.000000e+00
## 1023   0.00 0.00000000 0.00000000 0.000000e+00
## 1024   0.00 0.00000000 0.00000000 0.000000e+00
## 1025   0.00 0.00000000 0.00000000 0.000000e+00
## 1026   0.00 0.00000000 0.00000000 0.000000e+00
## 1027   0.00 0.00000000 0.00000000 0.000000e+00
## 1028   0.00 0.00000000 0.00000000 0.000000e+00
## 1029   0.00 0.00000000 0.00000000 0.000000e+00
## 1030   0.00 0.00000000 0.00000000 0.000000e+00
## 1031   0.00 0.00000000 0.00000000 0.000000e+00
## 1032   0.00 0.00000000 0.00000000 0.000000e+00
## 1033   0.00 0.00000000 0.00000000 0.000000e+00
## 1034   0.00 0.00000000 0.00000000 0.000000e+00
## 1035   0.00 0.00000000 0.00000000 0.000000e+00
## 1036   0.00 0.00000000 0.00000000 0.000000e+00
## 1037   0.00 0.00000000 0.00000000 0.000000e+00
## 1038   0.00 0.00000000 0.00000000 0.000000e+00
## 1039   0.00 0.00000000 0.00000000 0.000000e+00
## 1040   0.00 0.00000000 0.00000000 0.000000e+00
## 1041   0.00 0.00000000 0.00000000 0.000000e+00
## 1042   0.00 0.00000000 0.00000000 0.000000e+00
## 1043   0.00 0.00000000 0.00000000 0.000000e+00
## 1044   0.00 0.00000000 0.00000000 0.000000e+00
## 1045   0.00 0.00000000 0.00000000 0.000000e+00
## 1046   0.00 0.00000000 0.00000000 0.000000e+00
## 1047   0.00 0.00000000 0.00000000 0.000000e+00
```

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## 1048  0.00 0.00000000 0.00000000 0.000000e+00
## 1049  0.00 0.00000000 0.00000000 0.000000e+00
## 1050  0.00 0.00000000 0.00000000 0.000000e+00
## 1051  0.00 0.00000000 0.00000000 0.000000e+00
## 1052  0.00 0.00000000 0.00000000 0.000000e+00
## 1053  0.00 0.00000000 0.00000000 0.000000e+00
## 1054  0.00 0.00000000 0.00000000 0.000000e+00
## 1055  0.00 0.00000000 0.00000000 0.000000e+00
## 1056  0.00 0.00000000 0.00000000 0.000000e+00
## 1057  0.00 0.00000000 0.00000000 0.000000e+00
## 1058  0.00 0.00000000 0.00000000 0.000000e+00
## 1059  0.00 0.00000000 0.00000000 0.000000e+00
## 1060  0.00 0.00000000 0.00000000 0.000000e+00
## 1061  0.00 0.00000000 0.00000000 0.000000e+00
## 1062  0.00 0.00000000 0.00000000 0.000000e+00
## 1063  0.00 0.00000000 0.00000000 0.000000e+00
## 1064  0.00 0.00000000 0.00000000 0.000000e+00
## 1065  0.00 0.00000000 0.00000000 0.000000e+00
## 1066  0.00 0.00000000 0.00000000 0.000000e+00
## 1067  0.00 0.00000000 0.00000000 0.000000e+00
## 1068  0.00 0.00000000 0.00000000 0.000000e+00
## 1069  0.00 0.00000000 0.00000000 0.000000e+00
## 1070  0.00 0.00000000 0.00000000 0.000000e+00
## 1071  0.00 0.00000000 0.00000000 0.000000e+00
## 1072  0.00 0.00000000 0.00000000 0.000000e+00
## 1073  0.00 0.00000000 0.00000000 0.000000e+00
## 1074  0.00 0.00000000 0.00000000 0.000000e+00
## 1075  0.00 0.00000000 0.00000000 0.000000e+00
## 1076  0.00 0.00000000 0.00000000 0.000000e+00
## 1077  0.00 0.00000000 0.00000000 0.000000e+00
## 1078  0.00 0.00000000 0.00000000 0.000000e+00
## 1079  0.00 0.00000000 0.00000000 0.000000e+00
## 1080  0.00 0.00000000 0.00000000 0.000000e+00
## 1081  0.00 0.00000000 0.00000000 0.000000e+00
## 1082  0.00 0.00000000 0.00000000 0.000000e+00
## 1083  0.00 0.00000000 0.00000000 0.000000e+00
## 1084  0.00 0.00000000 0.00000000 0.000000e+00
## 1085  0.00 0.00000000 0.00000000 0.000000e+00
## 1086  0.00 0.00000000 0.00000000 0.000000e+00
## 1087  0.00 0.00000000 0.00000000 0.000000e+00
## 1088  0.00 0.00000000 0.00000000 0.000000e+00
## 1089  0.00 0.00000000 0.00000000 0.000000e+00
## 1090  0.00 0.00000000 0.00000000 0.000000e+00
## 1091  0.00 0.00000000 0.00000000 0.000000e+00
## 1092  0.00 0.00000000 0.00000000 0.000000e+00
## 1093  0.00 0.00000000 0.00000000 0.000000e+00
## 1094  0.00 0.00000000 0.00000000 0.000000e+00
## 1095  0.00 0.00000000 0.00000000 0.000000e+00
## 1096  0.00 0.00000000 0.00000000 0.000000e+00
## 1097  0.00 0.00000000 0.00000000 0.000000e+00
## 1098  0.00 0.00000000 0.00000000 0.000000e+00
## 1099  0.00 0.00000000 0.00000000 0.000000e+00
## 1100  0.00 0.00000000 0.00000000 0.000000e+00
## 1101  0.00 0.00000000 0.00000000 0.000000e+00
```

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## 1102  0.00 0.00000000 0.00000000 0.000000e+00
## 1103  0.00 0.00000000 0.00000000 0.000000e+00
## 1104  0.00 0.00000000 0.00000000 0.000000e+00
## 1105  0.00 0.00000000 0.00000000 0.000000e+00
## 1106  0.00 0.00000000 0.00000000 0.000000e+00
## 1107  0.00 0.00000000 0.00000000 0.000000e+00
## 1108  0.00 0.00000000 0.00000000 0.000000e+00
## 1109  0.00 0.00000000 0.00000000 0.000000e+00
## 1110  0.00 0.00000000 0.00000000 0.000000e+00
## 1111  0.00 0.00000000 0.00000000 0.000000e+00
## 1112  0.00 0.00000000 0.00000000 0.000000e+00
## 1113  0.00 0.00000000 0.00000000 0.000000e+00
## 1114  0.00 0.00000000 0.00000000 0.000000e+00
## 1115  0.00 0.00000000 0.00000000 0.000000e+00
## 1116  0.00 0.00000000 0.00000000 0.000000e+00
## 1117  0.00 0.00000000 0.00000000 0.000000e+00
## 1118  0.00 0.00000000 0.00000000 0.000000e+00
## 1119  0.00 0.00000000 0.00000000 0.000000e+00
## 1120  0.00 0.00000000 0.00000000 0.000000e+00
## 1121  0.00 0.00000000 0.00000000 0.000000e+00
## 1122  0.00 0.00000000 0.00000000 0.000000e+00
## 1123  0.00 0.00000000 0.00000000 0.000000e+00
## 1124  0.00 0.00000000 0.00000000 0.000000e+00
## 1125  0.00 0.00000000 0.00000000 0.000000e+00
## 1126  0.00 0.00000000 0.00000000 0.000000e+00
## 1127  0.00 0.00000000 0.00000000 0.000000e+00
## 1128  0.00 0.00000000 0.00000000 0.000000e+00
## 1129  0.00 0.00000000 0.00000000 0.000000e+00
## 1130  0.00 0.00000000 0.00000000 0.000000e+00
## 1131  0.00 0.00000000 0.00000000 0.000000e+00
## 1132  0.00 0.00000000 0.00000000 0.000000e+00
## 1133  0.00 0.00000000 0.00000000 0.000000e+00
## 1134  0.00 0.00000000 0.00000000 0.000000e+00
## 1135  0.00 0.00000000 0.00000000 0.000000e+00
## 1136  0.00 0.00000000 0.00000000 0.000000e+00
## 1137  0.00 0.00000000 0.00000000 0.000000e+00
## 1138  0.00 0.00000000 0.00000000 0.000000e+00
## 1139  0.00 0.00000000 0.00000000 0.000000e+00
## 1140  0.00 0.00000000 0.00000000 0.000000e+00
## 1141  0.00 0.00000000 0.00000000 0.000000e+00
## 1142  0.00 0.00000000 0.00000000 0.000000e+00
## 1143  0.00 0.00000000 0.00000000 0.000000e+00
## 1144  0.00 0.00000000 0.00000000 0.000000e+00
## 1145  0.00 0.00000000 0.00000000 0.000000e+00
## 1146  0.00 0.00000000 0.00000000 0.000000e+00
## 1147  0.00 0.00000000 0.00000000 0.000000e+00
## 1148  0.00 0.00000000 0.00000000 0.000000e+00
## 1149  0.00 0.00000000 0.00000000 0.000000e+00
## 1150  0.00 0.00000000 0.00000000 0.000000e+00
## 1151  0.00 0.00000000 0.00000000 0.000000e+00
## 1152  0.00 0.00000000 0.00000000 0.000000e+00
## 1153  0.00 0.00000000 0.00000000 0.000000e+00
## 1154  0.00 0.00000000 0.00000000 0.000000e+00
## 1155  0.00 0.00000000 0.00000000 0.000000e+00
```

```
## 1156  0.00 0.00000000 0.00000000 0.000000e+00
## 1157  0.00 0.00000000 0.00000000 0.000000e+00
## 1158  0.00 0.00000000 0.00000000 0.000000e+00
## 1159  0.00 0.00000000 0.00000000 0.000000e+00
## 1160  0.00 0.00000000 0.00000000 0.000000e+00
## 1161  0.00 0.00000000 0.00000000 0.000000e+00
## 1162  0.00 0.00000000 0.00000000 0.000000e+00
## 1163  0.00 0.00000000 0.00000000 0.000000e+00
## 1164  0.00 0.00000000 0.00000000 0.000000e+00
## 1165  0.00 0.00000000 0.00000000 0.000000e+00
## 1166  0.00 0.00000000 0.00000000 0.000000e+00
## 1167  0.00 0.00000000 0.00000000 0.000000e+00
## 1168  0.00 0.00000000 0.00000000 0.000000e+00
## 1169  0.00 0.00000000 0.00000000 0.000000e+00
## 1170  0.00 0.00000000 0.00000000 0.000000e+00
## 1171  0.00 0.00000000 0.00000000 0.000000e+00
## 1172  0.00 0.00000000 0.00000000 0.000000e+00
## 1173  0.00 0.00000000 0.00000000 0.000000e+00
## 1174  0.00 0.00000000 0.00000000 0.000000e+00
## 1175  0.00 0.00000000 0.00000000 0.000000e+00
## 1176  0.00 0.00000000 0.00000000 0.000000e+00
## 1177  0.00 0.00000000 0.00000000 0.000000e+00
## 1178  0.00 0.00000000 0.00000000 0.000000e+00
## 1179  0.00 0.00000000 0.00000000 0.000000e+00
## 1180  0.00 0.00000000 0.00000000 0.000000e+00
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## 1182  0.00 0.00000000 0.00000000 0.000000e+00
## 1183  0.00 0.00000000 0.00000000 0.000000e+00
## 1184  0.00 0.00000000 0.00000000 0.000000e+00
## 1185  0.00 0.00000000 0.00000000 0.000000e+00
## 1186  0.00 0.00000000 0.00000000 0.000000e+00
## 1187  0.00 0.00000000 0.00000000 0.000000e+00
## 1188  0.00 0.00000000 0.00000000 0.000000e+00
## 1189  0.00 0.00000000 0.00000000 0.000000e+00
## 1190  0.00 0.00000000 0.00000000 0.000000e+00
## 1191  0.00 0.00000000 0.00000000 0.000000e+00
## 1192  0.00 0.00000000 0.00000000 0.000000e+00
## 1193  0.00 0.00000000 0.00000000 0.000000e+00
## 1194  0.00 0.00000000 0.00000000 0.000000e+00
## 1195  0.00 0.00000000 0.00000000 0.000000e+00
## 1196  0.00 0.00000000 0.00000000 0.000000e+00
## 1197  0.00 0.00000000 0.00000000 0.000000e+00
## 1198  0.00 0.00000000 0.00000000 0.000000e+00
## 1199  0.00 0.00000000 0.00000000 0.000000e+00
## 1200  0.00 0.00000000 0.00000000 0.000000e+00
## 1201  0.00 0.00000000 0.00000000 0.000000e+00
## 1202  0.00 0.00000000 0.00000000 0.000000e+00
## 1203  0.00 0.00000000 0.00000000 0.000000e+00
## 1204  0.00 0.00000000 0.00000000 0.000000e+00
## 1205  0.00 0.00000000 0.00000000 0.000000e+00
## 1206  0.00 0.00000000 0.00000000 0.000000e+00
## 1207  0.00 0.00000000 0.00000000 0.000000e+00
## 1208  0.00 0.00000000 0.00000000 0.000000e+00
## 1209  0.00 0.00000000 0.00000000 0.000000e+00
```

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## 1210  0.00 0.00000000 0.00000000 0.000000e+00
## 1211  0.00 0.00000000 0.00000000 0.000000e+00
## 1212  0.00 0.00000000 0.00000000 0.000000e+00
## 1213  0.00 0.00000000 0.00000000 0.000000e+00
## 1214  0.00 0.00000000 0.00000000 0.000000e+00
## 1215  0.00 0.00000000 0.00000000 0.000000e+00
## 1216  0.00 0.00000000 0.00000000 0.000000e+00
## 1217  0.00 0.00000000 0.00000000 0.000000e+00
## 1218  0.00 0.00000000 0.00000000 0.000000e+00
## 1219  0.00 0.00000000 0.00000000 0.000000e+00
## 1220  0.00 0.00000000 0.00000000 0.000000e+00
## 1221  0.00 0.00000000 0.00000000 0.000000e+00
## 1222  0.00 0.00000000 0.00000000 0.000000e+00
## 1223  0.00 0.00000000 0.00000000 0.000000e+00
## 1224  0.00 0.00000000 0.00000000 0.000000e+00
## 1225  0.00 0.00000000 0.00000000 0.000000e+00
## 1226  0.00 0.00000000 0.00000000 0.000000e+00
## 1227  0.00 0.00000000 0.00000000 0.000000e+00
## 1228  0.00 0.00000000 0.00000000 0.000000e+00
## 1229  0.00 0.00000000 0.00000000 0.000000e+00
## 1230  0.00 0.00000000 0.00000000 0.000000e+00
## 1231  0.00 0.00000000 0.00000000 0.000000e+00
## 1232  0.00 0.00000000 0.00000000 0.000000e+00
## 1233  0.00 0.00000000 0.00000000 0.000000e+00
## 1234  0.00 0.00000000 0.00000000 0.000000e+00
## 1235  0.00 0.00000000 0.00000000 0.000000e+00
## 1236  0.00 0.00000000 0.00000000 0.000000e+00
## 1237  0.00 0.00000000 0.00000000 0.000000e+00
## 1238  0.00 0.00000000 0.00000000 0.000000e+00
## 1239  0.00 0.00000000 0.00000000 0.000000e+00
## 1240  0.00 0.00000000 0.00000000 0.000000e+00
## 1241  0.00 0.00000000 0.00000000 0.000000e+00
## 1242  0.00 0.00000000 0.00000000 0.000000e+00
## 1243  0.00 0.00000000 0.00000000 0.000000e+00
## 1244  0.00 0.00000000 0.00000000 0.000000e+00
## 1245  0.00 0.00000000 0.00000000 0.000000e+00
## 1246  0.00 0.00000000 0.00000000 0.000000e+00
## 1247  0.00 0.00000000 0.00000000 0.000000e+00
## 1248  0.00 0.00000000 0.00000000 0.000000e+00
## 1249  0.00 0.00000000 0.00000000 0.000000e+00
## 1250  0.00 0.00000000 0.00000000 0.000000e+00
## 1251  0.00 0.00000000 0.00000000 0.000000e+00
## 1252  0.00 0.00000000 0.00000000 0.000000e+00
## 1253  0.00 0.00000000 0.00000000 0.000000e+00
## 1254  0.00 0.00000000 0.00000000 0.000000e+00
## 1255  0.00 0.00000000 0.00000000 0.000000e+00
## 1256  0.00 0.00000000 0.00000000 0.000000e+00
## 1257  0.00 0.00000000 0.00000000 0.000000e+00
## 1258  0.00 0.00000000 0.00000000 0.000000e+00
## 1259  0.00 0.00000000 0.00000000 0.000000e+00
## 1260  0.00 0.00000000 0.00000000 0.000000e+00
## 1261  0.00 0.00000000 0.00000000 0.000000e+00
## 1262  0.00 0.00000000 0.00000000 0.000000e+00
## 1263  0.00 0.00000000 0.00000000 0.000000e+00
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## 1264  0.00 0.00000000 0.00000000 0.000000e+00
## 1265  0.00 0.00000000 0.00000000 0.000000e+00
## 1266  0.00 0.00000000 0.00000000 0.000000e+00
## 1267  0.00 0.00000000 0.00000000 0.000000e+00
## 1268  0.00 0.00000000 0.00000000 0.000000e+00
## 1269  0.00 0.00000000 0.00000000 0.000000e+00
## 1270  0.00 0.00000000 0.00000000 0.000000e+00
## 1271  0.00 0.00000000 0.00000000 0.000000e+00
## 1272  0.00 0.00000000 0.00000000 0.000000e+00
## 1273  0.00 0.00000000 0.00000000 0.000000e+00
## 1274  0.00 0.00000000 0.00000000 0.000000e+00
## 1275  0.00 0.00000000 0.00000000 0.000000e+00
## 1276  0.00 0.00000000 0.00000000 0.000000e+00
## 1277  0.00 0.00000000 0.00000000 0.000000e+00
## 1278  0.00 0.00000000 0.00000000 0.000000e+00
## 1279  0.00 0.00000000 0.00000000 0.000000e+00
## 1280  0.00 0.00000000 0.00000000 0.000000e+00
## 1281  0.00 0.00000000 0.00000000 0.000000e+00
## 1282  0.00 0.00000000 0.00000000 0.000000e+00
## 1283  0.00 0.00000000 0.00000000 0.000000e+00
## 1284  0.00 0.00000000 0.00000000 0.000000e+00
## 1285  0.00 0.00000000 0.00000000 0.000000e+00
## 1286  0.00 0.00000000 0.00000000 0.000000e+00
## 1287  0.00 0.00000000 0.00000000 0.000000e+00
## 1288  0.00 0.00000000 0.00000000 0.000000e+00
## 1289  0.00 0.00000000 0.00000000 0.000000e+00
## 1290  0.00 0.00000000 0.00000000 0.000000e+00
## 1291  0.00 0.00000000 0.00000000 0.000000e+00
## 1292  0.00 0.00000000 0.00000000 0.000000e+00
## 1293  0.00 0.00000000 0.00000000 0.000000e+00
## 1294  0.00 0.00000000 0.00000000 0.000000e+00
## 1295  0.00 0.00000000 0.00000000 0.000000e+00
## 1296  0.00 0.00000000 0.00000000 0.000000e+00
## 1297  0.00 0.00000000 0.00000000 0.000000e+00
## 1298  0.00 0.00000000 0.00000000 0.000000e+00
## 1299  0.00 0.00000000 0.00000000 0.000000e+00
## 1300  0.00 0.00000000 0.00000000 0.000000e+00
## 1301  0.00 0.00000000 0.00000000 0.000000e+00
## 1302  0.00 0.00000000 0.00000000 0.000000e+00
## 1303  0.00 0.00000000 0.00000000 0.000000e+00
## 1304  0.00 0.00000000 0.00000000 0.000000e+00
## 1305  0.00 0.00000000 0.00000000 0.000000e+00
## 1306  0.00 0.00000000 0.00000000 0.000000e+00
## 1307  0.00 0.00000000 0.00000000 0.000000e+00
## 1308  0.00 0.00000000 0.00000000 0.000000e+00
## 1309  0.00 0.00000000 0.00000000 0.000000e+00
## 1310  0.00 0.00000000 0.00000000 0.000000e+00
## 1311  0.00 0.00000000 0.00000000 0.000000e+00
## 1312  0.00 0.00000000 0.00000000 0.000000e+00
## 1313  0.00 0.00000000 0.00000000 0.000000e+00
## 1314  0.00 0.00000000 0.00000000 0.000000e+00
## 1315  0.00 0.00000000 0.00000000 0.000000e+00
## 1316  0.00 0.00000000 0.00000000 0.000000e+00
## 1317  0.00 0.00000000 0.00000000 0.000000e+00
```

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## 1318  0.00 0.00000000 0.00000000 0.000000e+00
## 1319  0.00 0.00000000 0.00000000 0.000000e+00
## 1320  0.00 0.00000000 0.00000000 0.000000e+00
## 1321  0.00 0.00000000 0.00000000 0.000000e+00
## 1322  0.00 0.00000000 0.00000000 0.000000e+00
## 1323  0.00 0.00000000 0.00000000 0.000000e+00
## 1324  0.00 0.00000000 0.00000000 0.000000e+00
## 1325  0.00 0.00000000 0.00000000 0.000000e+00
## 1326  0.00 0.00000000 0.00000000 0.000000e+00
## 1327  0.00 0.00000000 0.00000000 0.000000e+00
## 1328  0.00 0.00000000 0.00000000 0.000000e+00
## 1329  0.00 0.00000000 0.00000000 0.000000e+00
## 1330  0.00 0.00000000 0.00000000 0.000000e+00
## 1331  0.00 0.00000000 0.00000000 0.000000e+00
## 1332  0.00 0.00000000 0.00000000 0.000000e+00
## 1333  0.00 0.00000000 0.00000000 0.000000e+00
## 1334  0.00 0.00000000 0.00000000 0.000000e+00
## 1335  0.00 0.00000000 0.00000000 0.000000e+00
## 1336  0.00 0.00000000 0.00000000 0.000000e+00
## 1337  0.00 0.00000000 0.00000000 0.000000e+00
## 1338  0.00 0.00000000 0.00000000 0.000000e+00
## 1339  0.00 0.00000000 0.00000000 0.000000e+00
## 1340  0.00 0.00000000 0.00000000 0.000000e+00
## 1341  0.00 0.00000000 0.00000000 0.000000e+00
## 1342  0.00 0.00000000 0.00000000 0.000000e+00
## 1343  0.00 0.00000000 0.00000000 0.000000e+00
## 1344  0.00 0.00000000 0.00000000 0.000000e+00
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## 1356  0.00 0.00000000 0.00000000 0.000000e+00
## 1357  0.00 0.00000000 0.00000000 0.000000e+00
## 1358  0.00 0.00000000 0.00000000 0.000000e+00
## 1359  0.00 0.00000000 0.00000000 0.000000e+00
## 1360  0.00 0.00000000 0.00000000 0.000000e+00
## 1361  0.00 0.00000000 0.00000000 0.000000e+00
## 1362  0.00 0.00000000 0.00000000 0.000000e+00
## 1363  0.00 0.00000000 0.00000000 0.000000e+00
## 1364  0.00 0.00000000 0.00000000 0.000000e+00
## 1365  0.00 0.00000000 0.00000000 0.000000e+00
## 1366  0.00 0.00000000 0.00000000 0.000000e+00
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## 1379  0.00 0.00000000 0.00000000 0.000000e+00
## 1380  0.00 0.00000000 0.00000000 0.000000e+00
## 1381  0.00 0.00000000 0.00000000 0.000000e+00
## 1382  0.00 0.00000000 0.00000000 0.000000e+00
## 1383  0.00 0.00000000 0.00000000 0.000000e+00
## 1384  0.00 0.00000000 0.00000000 0.000000e+00
## 1385  0.00 0.00000000 0.00000000 0.000000e+00
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## 1387  0.00 0.00000000 0.00000000 0.000000e+00
## 1388  0.00 0.00000000 0.00000000 0.000000e+00
## 1389  0.00 0.00000000 0.00000000 0.000000e+00
## 1390  0.00 0.00000000 0.00000000 0.000000e+00
## 1391  0.00 0.00000000 0.00000000 0.000000e+00
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## 1393  0.00 0.00000000 0.00000000 0.000000e+00
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## 1395  0.00 0.00000000 0.00000000 0.000000e+00
## 1396  0.00 0.00000000 0.00000000 0.000000e+00
## 1397  0.00 0.00000000 0.00000000 0.000000e+00
## 1398  0.00 0.00000000 0.00000000 0.000000e+00
## 1399  0.00 0.00000000 0.00000000 0.000000e+00
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## 1467  0.00 0.00000000 0.00000000 0.000000e+00
## 1468  0.00 0.00000000 0.00000000 0.000000e+00
## 1469  0.00 0.00000000 0.00000000 0.000000e+00
## 1470  0.00 0.00000000 0.00000000 0.000000e+00
## 1471  0.00 0.00000000 0.00000000 0.000000e+00
## 1472  0.00 0.00000000 0.00000000 0.000000e+00
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## 1488  0.00 0.00000000 0.00000000 0.000000e+00
## 1489  0.00 0.00000000 0.00000000 0.000000e+00
## 1490  0.00 0.00000000 0.00000000 0.000000e+00
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## 1492  0.00 0.00000000 0.00000000 0.000000e+00
## 1493  0.00 0.00000000 0.00000000 0.000000e+00
## 1494  0.00 0.00000000 0.00000000 0.000000e+00
## 1495  0.00 0.00000000 0.00000000 0.000000e+00
## 1496  0.00 0.00000000 0.00000000 0.000000e+00
## 1497  0.00 0.00000000 0.00000000 0.000000e+00
## 1498  0.00 0.00000000 0.00000000 0.000000e+00
## 1499  0.00 0.00000000 0.00000000 0.000000e+00
## 1500  0.00 0.00000000 0.00000000 0.000000e+00
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## 1502  0.00 0.00000000 0.00000000 0.000000e+00
## 1503  0.00 0.00000000 0.00000000 0.000000e+00
## 1504  0.00 0.00000000 0.00000000 0.000000e+00
## 1505  0.00 0.00000000 0.00000000 0.000000e+00
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## 1570   0.00 0.00000000 0.00000000 0.000000e+00
## 1571   0.00 0.00000000 0.00000000 0.000000e+00
## 1572   0.00 0.00000000 0.00000000 0.000000e+00
## 1573   0.00 0.00000000 0.00000000 0.000000e+00
## 1574   0.00 0.00000000 0.00000000 0.000000e+00
## 1575   0.00 0.00000000 0.00000000 0.000000e+00
## 1576   0.00 0.00000000 0.00000000 0.000000e+00
## 1577   0.00 0.00000000 0.00000000 0.000000e+00
## 1578   0.00 0.00000000 0.00000000 0.000000e+00
## 1579   0.00 0.00000000 0.00000000 0.000000e+00
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## 1581   0.00 0.00000000 0.00000000 0.000000e+00
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## 1596  0.00 0.00000000 0.00000000 0.000000e+00
## 1597  0.00 0.00000000 0.00000000 0.000000e+00
## 1598  0.00 0.00000000 0.00000000 0.000000e+00
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## 1603  0.00 0.00000000 0.00000000 0.000000e+00
## 1604  0.00 0.00000000 0.00000000 0.000000e+00
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## 1627  0.00 0.00000000 0.00000000 0.000000e+00
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## 1630  0.00 0.00000000 0.00000000 0.000000e+00
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## 1681  0.00 0.00000000 0.00000000 0.000000e+00
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## 1707  0.00 0.00000000 0.00000000 0.000000e+00
## 1708  0.00 0.00000000 0.00000000 0.000000e+00
## 1709  0.00 0.00000000 0.00000000 0.000000e+00
## 1710  0.00 0.00000000 0.00000000 0.000000e+00
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## 1728  0.00 0.00000000 0.00000000 0.000000e+00
## 1729  0.00 0.00000000 0.00000000 0.000000e+00
## 1730  0.00 0.00000000 0.00000000 0.000000e+00
## 1731  0.00 0.00000000 0.00000000 0.000000e+00
## 1732  0.00 0.00000000 0.00000000 0.000000e+00
## 1733  0.00 0.00000000 0.00000000 0.000000e+00
## 1734  0.00 0.00000000 0.00000000 0.000000e+00
## 1735  0.00 0.00000000 0.00000000 0.000000e+00
## 1736  0.00 0.00000000 0.00000000 0.000000e+00
## 1737  0.00 0.00000000 0.00000000 0.000000e+00
## 1738  0.00 0.00000000 0.00000000 0.000000e+00
## 1739  0.00 0.00000000 0.00000000 0.000000e+00
## 1740  0.00 0.00000000 0.00000000 0.000000e+00
## 1741  0.00 0.00000000 0.00000000 0.000000e+00
## 1742  0.00 0.00000000 0.00000000 0.000000e+00
## 1743  0.00 0.00000000 0.00000000 0.000000e+00
## 1744  0.00 0.00000000 0.00000000 0.000000e+00
## 1745  0.00 0.00000000 0.00000000 0.000000e+00
## 1746  0.00 0.00000000 0.00000000 0.000000e+00
## 1747  0.00 0.00000000 0.00000000 0.000000e+00
## 1748  0.00 0.00000000 0.00000000 0.000000e+00
## 1749  0.00 0.00000000 0.00000000 0.000000e+00
```

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## 1750  0.00 0.00000000 0.00000000 0.000000e+00
## 1751  0.00 0.00000000 0.00000000 0.000000e+00
## 1752  0.00 0.00000000 0.00000000 0.000000e+00
## 1753  0.00 0.00000000 0.00000000 0.000000e+00
## 1754  0.00 0.00000000 0.00000000 0.000000e+00
## 1755  0.00 0.00000000 0.00000000 0.000000e+00
## 1756  0.00 0.00000000 0.00000000 0.000000e+00
## 1757  0.00 0.00000000 0.00000000 0.000000e+00
## 1758  0.00 0.00000000 0.00000000 0.000000e+00
## 1759  0.00 0.00000000 0.00000000 0.000000e+00
## 1760  0.00 0.00000000 0.00000000 0.000000e+00
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## 1762  0.00 0.00000000 0.00000000 0.000000e+00
## 1763  0.00 0.00000000 0.00000000 0.000000e+00
## 1764  0.00 0.00000000 0.00000000 0.000000e+00
## 1765  0.00 0.00000000 0.00000000 0.000000e+00
## 1766  0.00 0.00000000 0.00000000 0.000000e+00
## 1767  0.00 0.00000000 0.00000000 0.000000e+00
## 1768  0.00 0.00000000 0.00000000 0.000000e+00
## 1769  0.00 0.00000000 0.00000000 0.000000e+00
## 1770  0.00 0.00000000 0.00000000 0.000000e+00
## 1771  0.00 0.00000000 0.00000000 0.000000e+00
## 1772  0.00 0.00000000 0.00000000 0.000000e+00
## 1773  0.00 0.00000000 0.00000000 0.000000e+00
## 1774  0.00 0.00000000 0.00000000 0.000000e+00
## 1775  0.00 0.00000000 0.00000000 0.000000e+00
## 1776  0.00 0.00000000 0.00000000 0.000000e+00
## 1777  0.00 0.00000000 0.00000000 0.000000e+00
## 1778  0.00 0.00000000 0.00000000 0.000000e+00
## 1779  0.00 0.00000000 0.00000000 0.000000e+00
## 1780  0.00 0.00000000 0.00000000 0.000000e+00
## 1781  0.00 0.00000000 0.00000000 0.000000e+00
## 1782  0.00 0.00000000 0.00000000 0.000000e+00
## 1783  0.00 0.00000000 0.00000000 0.000000e+00
## 1784  0.00 0.00000000 0.00000000 0.000000e+00
## 1785  0.00 0.00000000 0.00000000 0.000000e+00
## 1786  0.00 0.00000000 0.00000000 0.000000e+00
## 1787  0.00 0.00000000 0.00000000 0.000000e+00
## 1788  0.00 0.00000000 0.00000000 0.000000e+00
## 1789  0.00 0.00000000 0.00000000 0.000000e+00
## 1790  0.00 0.00000000 0.00000000 0.000000e+00
## 1791  0.00 0.00000000 0.00000000 0.000000e+00
## 1792  0.00 0.00000000 0.00000000 0.000000e+00
## 1793  0.00 0.00000000 0.00000000 0.000000e+00
## 1794  0.00 0.00000000 0.00000000 0.000000e+00
## 1795  0.00 0.00000000 0.00000000 0.000000e+00
## 1796  0.00 0.00000000 0.00000000 0.000000e+00
## 1797  0.00 0.00000000 0.00000000 0.000000e+00
## 1798  0.00 0.00000000 0.00000000 0.000000e+00
## 1799  0.00 0.00000000 0.00000000 0.000000e+00
## 1800  0.00 0.00000000 0.00000000 0.000000e+00
## 1801  0.00 0.00000000 0.00000000 0.000000e+00
## 1802  0.00 0.00000000 0.00000000 0.000000e+00
## 1803  0.00 0.00000000 0.00000000 0.000000e+00
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## 1804  0.00 0.00000000 0.00000000 0.000000e+00
## 1805  0.00 0.00000000 0.00000000 0.000000e+00
## 1806  0.00 0.00000000 0.00000000 0.000000e+00
## 1807  0.00 0.00000000 0.00000000 0.000000e+00
## 1808  0.00 0.00000000 0.00000000 0.000000e+00
## 1809  0.00 0.00000000 0.00000000 0.000000e+00
## 1810  0.00 0.00000000 0.00000000 0.000000e+00
## 1811  0.00 0.00000000 0.00000000 0.000000e+00
## 1812  0.00 0.00000000 0.00000000 0.000000e+00
## 1813  0.00 0.00000000 0.00000000 0.000000e+00
## 1814  0.00 0.00000000 0.00000000 0.000000e+00
## 1815  0.00 0.00000000 0.00000000 0.000000e+00
## 1816  0.00 0.00000000 0.00000000 0.000000e+00
## 1817  0.00 0.00000000 0.00000000 0.000000e+00
## 1818  0.00 0.00000000 0.00000000 0.000000e+00
## 1819  0.00 0.00000000 0.00000000 0.000000e+00
## 1820  0.00 0.00000000 0.00000000 0.000000e+00
## 1821  0.00 0.00000000 0.00000000 0.000000e+00
## 1822  0.00 0.00000000 0.00000000 0.000000e+00
## 1823  0.00 0.00000000 0.00000000 0.000000e+00
## 1824  0.00 0.00000000 0.00000000 0.000000e+00
## 1825  0.00 0.00000000 0.00000000 0.000000e+00
## 1826  0.00 0.00000000 0.00000000 0.000000e+00
## 1827  0.00 0.00000000 0.00000000 0.000000e+00
## 1828  0.00 0.00000000 0.00000000 0.000000e+00
## 1829  0.00 0.00000000 0.00000000 0.000000e+00
## 1830  0.00 0.00000000 0.00000000 0.000000e+00
## 1831  0.00 0.00000000 0.00000000 0.000000e+00
## 1832  0.00 0.00000000 0.00000000 0.000000e+00
## 1833  0.00 0.00000000 0.00000000 0.000000e+00
## 1834  0.00 0.00000000 0.00000000 0.000000e+00
## 1835  0.00 0.00000000 0.00000000 0.000000e+00
## 1836  0.00 0.00000000 0.00000000 0.000000e+00
## 1837  0.00 0.00000000 0.00000000 0.000000e+00
## 1838  0.00 0.00000000 0.00000000 0.000000e+00
## 1839  0.00 0.00000000 0.00000000 0.000000e+00
## 1840  0.00 0.00000000 0.00000000 0.000000e+00
## 1841  0.00 0.00000000 0.00000000 0.000000e+00
## 1842  0.00 0.00000000 0.00000000 0.000000e+00
## 1843  0.00 0.00000000 0.00000000 0.000000e+00
## 1844  0.00 0.00000000 0.00000000 0.000000e+00
## 1845  0.00 0.00000000 0.00000000 0.000000e+00
## 1846  0.00 0.00000000 0.00000000 0.000000e+00
## 1847  0.00 0.00000000 0.00000000 0.000000e+00
## 1848  0.00 0.00000000 0.00000000 0.000000e+00
## 1849  0.00 0.00000000 0.00000000 0.000000e+00
## 1850  0.00 0.00000000 0.00000000 0.000000e+00
## 1851  0.00 0.00000000 0.00000000 0.000000e+00
## 1852  0.00 0.00000000 0.00000000 0.000000e+00
## 1853  0.00 0.00000000 0.00000000 0.000000e+00
## 1854  0.00 0.00000000 0.00000000 0.000000e+00
## 1855  0.00 0.00000000 0.00000000 0.000000e+00
## 1856  0.00 0.00000000 0.00000000 0.000000e+00
## 1857  0.00 0.00000000 0.00000000 0.000000e+00
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## 1858  0.00 0.00000000 0.00000000 0.000000e+00
## 1859  0.00 0.00000000 0.00000000 0.000000e+00
## 1860  0.00 0.00000000 0.00000000 0.000000e+00
## 1861  0.00 0.00000000 0.00000000 0.000000e+00
## 1862  0.00 0.00000000 0.00000000 0.000000e+00
## 1863  0.00 0.00000000 0.00000000 0.000000e+00
## 1864  0.00 0.00000000 0.00000000 0.000000e+00
## 1865  0.00 0.00000000 0.00000000 0.000000e+00
## 1866  0.00 0.00000000 0.00000000 0.000000e+00
## 1867  0.00 0.00000000 0.00000000 0.000000e+00
## 1868  0.00 0.00000000 0.00000000 0.000000e+00
## 1869  0.00 0.00000000 0.00000000 0.000000e+00
## 1870  0.00 0.00000000 0.00000000 0.000000e+00
## 1871  0.00 0.00000000 0.00000000 0.000000e+00
## 1872  0.00 0.00000000 0.00000000 0.000000e+00
## 1873  0.00 0.00000000 0.00000000 0.000000e+00
## 1874  0.00 0.00000000 0.00000000 0.000000e+00
## 1875  0.00 0.00000000 0.00000000 0.000000e+00
## 1876  0.00 0.00000000 0.00000000 0.000000e+00
## 1877  0.00 0.00000000 0.00000000 0.000000e+00
## 1878  0.00 0.00000000 0.00000000 0.000000e+00
## 1879  0.00 0.00000000 0.00000000 0.000000e+00
## 1880  0.00 0.00000000 0.00000000 0.000000e+00
## 1881  0.00 0.00000000 0.00000000 0.000000e+00
## 1882  0.00 0.00000000 0.00000000 0.000000e+00
## 1883  0.00 0.00000000 0.00000000 0.000000e+00
## 1884  0.00 0.00000000 0.00000000 0.000000e+00
## 1885  0.00 0.00000000 0.00000000 0.000000e+00
## 1886  0.00 0.00000000 0.00000000 0.000000e+00
## 1887  0.00 0.00000000 0.00000000 0.000000e+00
## 1888  0.00 0.00000000 0.00000000 0.000000e+00
## 1889  0.00 0.00000000 0.00000000 0.000000e+00
## 1890  0.00 0.00000000 0.00000000 0.000000e+00
## 1891  0.00 0.00000000 0.00000000 0.000000e+00
## 1892  0.00 0.00000000 0.00000000 0.000000e+00
## 1893  0.00 0.00000000 0.00000000 0.000000e+00
## 1894  0.00 0.00000000 0.00000000 0.000000e+00
## 1895  0.00 0.00000000 0.00000000 0.000000e+00
## 1896  0.00 0.00000000 0.00000000 0.000000e+00
## 1897  0.00 0.00000000 0.00000000 0.000000e+00
## 1898  0.00 0.00000000 0.00000000 0.000000e+00
## 1899  0.00 0.00000000 0.00000000 0.000000e+00
## 1900  0.00 0.00000000 0.00000000 0.000000e+00
## 1901  0.00 0.00000000 0.00000000 0.000000e+00
## 1902  0.00 0.00000000 0.00000000 0.000000e+00
## 1903  0.00 0.00000000 0.00000000 0.000000e+00
## 1904  0.00 0.00000000 0.00000000 0.000000e+00
## 1905  0.00 0.00000000 0.00000000 0.000000e+00
## 1906  0.00 0.00000000 0.00000000 0.000000e+00
## 1907  0.00 0.00000000 0.00000000 0.000000e+00
## 1908  0.00 0.00000000 0.00000000 0.000000e+00
## 1909  0.00 0.00000000 0.00000000 0.000000e+00
## 1910  0.00 0.00000000 0.00000000 0.000000e+00
## 1911  0.00 0.00000000 0.00000000 0.000000e+00
```

```
## 1912  0.00 0.00000000 0.00000000 0.000000e+00
## 1913  0.00 0.00000000 0.00000000 0.000000e+00
## 1914  0.00 0.00000000 0.00000000 0.000000e+00
## 1915  0.00 0.00000000 0.00000000 0.000000e+00
## 1916  0.00 0.00000000 0.00000000 0.000000e+00
## 1917  0.00 0.00000000 0.00000000 0.000000e+00
## 1918  0.00 0.00000000 0.00000000 0.000000e+00
## 1919  0.00 0.00000000 0.00000000 0.000000e+00
## 1920  0.00 0.00000000 0.00000000 0.000000e+00
## 1921  0.00 0.00000000 0.00000000 0.000000e+00
## 1922  0.00 0.00000000 0.00000000 0.000000e+00
## 1923  0.00 0.00000000 0.00000000 0.000000e+00
## 1924  0.00 0.00000000 0.00000000 0.000000e+00
## 1925  0.00 0.00000000 0.00000000 0.000000e+00
## 1926  0.00 0.00000000 0.00000000 0.000000e+00
## 1927  0.00 0.00000000 0.00000000 0.000000e+00
## 1928  0.00 0.00000000 0.00000000 0.000000e+00
## 1929  0.00 0.00000000 0.00000000 0.000000e+00
## 1930  0.00 0.00000000 0.00000000 0.000000e+00
## 1931  0.00 0.00000000 0.00000000 0.000000e+00
## 1932  0.00 0.00000000 0.00000000 0.000000e+00
## 1933  0.00 0.00000000 0.00000000 0.000000e+00
## 1934  0.00 0.00000000 0.00000000 0.000000e+00
## 1935  0.00 0.00000000 0.00000000 0.000000e+00
## 1936  0.00 0.00000000 0.00000000 0.000000e+00
## 1937  0.00 0.00000000 0.00000000 0.000000e+00
## 1938  0.00 0.00000000 0.00000000 0.000000e+00
## 1939  0.00 0.00000000 0.00000000 0.000000e+00
## 1940  0.00 0.00000000 0.00000000 0.000000e+00
## 1941  0.00 0.00000000 0.00000000 0.000000e+00
## 1942  0.00 0.00000000 0.00000000 0.000000e+00
## 1943  0.00 0.00000000 0.00000000 0.000000e+00
## 1944  0.00 0.00000000 0.00000000 0.000000e+00
## 1945  0.00 0.00000000 0.00000000 0.000000e+00
## 1946  0.00 0.00000000 0.00000000 0.000000e+00
## 1947  0.00 0.00000000 0.00000000 0.000000e+00
## 1948  0.00 0.00000000 0.00000000 0.000000e+00
## 1949  0.00 0.00000000 0.00000000 0.000000e+00
## 1950  0.00 0.00000000 0.00000000 0.000000e+00
## 1951  0.00 0.00000000 0.00000000 0.000000e+00
## 1952  0.00 0.00000000 0.00000000 0.000000e+00
## 1953  0.00 0.00000000 0.00000000 0.000000e+00
## 1954  0.00 0.00000000 0.00000000 0.000000e+00
## 1955  0.00 0.00000000 0.00000000 0.000000e+00
## 1956  0.00 0.00000000 0.00000000 0.000000e+00
## 1957  0.00 0.00000000 0.00000000 0.000000e+00
## 1958  0.00 0.00000000 0.00000000 0.000000e+00
## 1959  0.00 0.00000000 0.00000000 0.000000e+00
## 1960  0.00 0.00000000 0.00000000 0.000000e+00
## 1961  0.00 0.00000000 0.00000000 0.000000e+00
## 1962  0.00 0.00000000 0.00000000 0.000000e+00
## 1963  0.00 0.00000000 0.00000000 0.000000e+00
## 1964  0.00 0.00000000 0.00000000 0.000000e+00
## 1965  0.00 0.00000000 0.00000000 0.000000e+00
```

```
## 1966  0.00 0.00000000 0.00000000 0.000000e+00
## 1967  0.00 0.00000000 0.00000000 0.000000e+00
## 1968  0.00 0.00000000 0.00000000 0.000000e+00
## 1969  0.00 0.00000000 0.00000000 0.000000e+00
## 1970  0.00 0.00000000 0.00000000 0.000000e+00
## 1971  0.00 0.00000000 0.00000000 0.000000e+00
## 1972  0.00 0.00000000 0.00000000 0.000000e+00
## 1973  0.00 0.00000000 0.00000000 0.000000e+00
## 1974  0.00 0.00000000 0.00000000 0.000000e+00
## 1975  0.00 0.00000000 0.00000000 0.000000e+00
## 1976  0.00 0.00000000 0.00000000 0.000000e+00
## 1977  0.00 0.00000000 0.00000000 0.000000e+00
## 1978  0.00 0.00000000 0.00000000 0.000000e+00
## 1979  0.00 0.00000000 0.00000000 0.000000e+00
## 1980  0.00 0.00000000 0.00000000 0.000000e+00
## 1981  0.00 0.00000000 0.00000000 0.000000e+00
## 1982  0.00 0.00000000 0.00000000 0.000000e+00
## 1983  0.00 0.00000000 0.00000000 0.000000e+00
## 1984  0.00 0.00000000 0.00000000 0.000000e+00
## 1985  0.00 0.00000000 0.00000000 0.000000e+00
## 1986  0.00 0.00000000 0.00000000 0.000000e+00
## 1987  0.00 0.00000000 0.00000000 0.000000e+00
## 1988  0.00 0.00000000 0.00000000 0.000000e+00
## 1989  0.00 0.00000000 0.00000000 0.000000e+00
## 1990  0.00 0.00000000 0.00000000 0.000000e+00
## 1991  0.00 0.00000000 0.00000000 0.000000e+00
## 1992  0.00 0.00000000 0.00000000 0.000000e+00
## 1993  0.00 0.00000000 0.00000000 0.000000e+00
## 1994  0.00 0.00000000 0.00000000 0.000000e+00
## 1995  0.00 0.00000000 0.00000000 0.000000e+00
## 1996  0.00 0.00000000 0.00000000 0.000000e+00
## 1997  0.00 0.00000000 0.00000000 0.000000e+00
## 1998  0.00 0.00000000 0.00000000 0.000000e+00
## 1999  0.00 0.00000000 0.00000000 0.000000e+00
## 2000  0.00 0.00000000 0.00000000 0.000000e+00
## 2001  0.00 0.00000000 0.00000000 0.000000e+00
## 2002  0.00 0.00000000 0.00000000 0.000000e+00
## 2003  0.00 0.00000000 0.00000000 0.000000e+00
## 2004  0.00 0.00000000 0.00000000 0.000000e+00
## 2005  0.00 0.00000000 0.00000000 0.000000e+00
## 2006  0.00 0.00000000 0.00000000 0.000000e+00
## 2007  0.00 0.00000000 0.00000000 0.000000e+00
## 2008  0.00 0.00000000 0.00000000 0.000000e+00
## 2009  0.00 0.00000000 0.00000000 0.000000e+00
## 2010  0.00 0.00000000 0.00000000 0.000000e+00
## 2011  0.00 0.00000000 0.00000000 0.000000e+00
## 2012  0.00 0.00000000 0.00000000 0.000000e+00
## 2013  0.00 0.00000000 0.00000000 0.000000e+00
## 2014  0.00 0.00000000 0.00000000 0.000000e+00
## 2015  0.00 0.00000000 0.00000000 0.000000e+00
## 2016  0.00 0.00000000 0.00000000 0.000000e+00
## 2017  0.00 0.00000000 0.00000000 0.000000e+00
## 2018  0.00 0.00000000 0.00000000 0.000000e+00
## 2019  0.00 0.00000000 0.00000000 0.000000e+00
```

```
## 2020   0.00 0.00000000 0.00000000 0.000000e+00
## 2021   0.00 0.00000000 0.00000000 0.000000e+00
## 2022   0.00 0.00000000 0.00000000 0.000000e+00
## 2023   0.00 0.00000000 0.00000000 0.000000e+00
## 2024   0.00 0.00000000 0.00000000 0.000000e+00
## 2025   0.00 0.00000000 0.00000000 0.000000e+00
## 2026   0.00 0.00000000 0.00000000 0.000000e+00
## 2027   0.00 0.00000000 0.00000000 0.000000e+00
## 2028   0.00 0.00000000 0.00000000 0.000000e+00
## 2029   0.00 0.00000000 0.00000000 0.000000e+00
## 2030   0.00 0.00000000 0.00000000 0.000000e+00
## 2031   0.00 0.00000000 0.00000000 0.000000e+00
## 2032   0.00 0.00000000 0.00000000 0.000000e+00
## 2033   0.00 0.00000000 0.00000000 0.000000e+00
## 2034   0.00 0.00000000 0.00000000 0.000000e+00
## 2035   0.00 0.00000000 0.00000000 0.000000e+00
## 2036   0.00 0.00000000 0.00000000 0.000000e+00
## 2037   0.00 0.00000000 0.00000000 0.000000e+00
## 2038   0.00 0.00000000 0.00000000 0.000000e+00
## 2039   0.00 0.00000000 0.00000000 0.000000e+00
## 2040   0.00 0.00000000 0.00000000 0.000000e+00
## 2041   0.00 0.00000000 0.00000000 0.000000e+00
## 2042   0.00 0.00000000 0.00000000 0.000000e+00
## 2043   0.00 0.00000000 0.00000000 0.000000e+00
## 2044   0.00 0.00000000 0.00000000 0.000000e+00
## 2045   0.00 0.00000000 0.00000000 0.000000e+00
## 2046   0.00 0.00000000 0.00000000 0.000000e+00
## 2047   0.00 0.00000000 0.00000000 0.000000e+00
## 2048   0.00 0.00000000 0.00000000 0.000000e+00
## 2049   0.00 0.00000000 0.00000000 0.000000e+00
## 2050   0.00 0.00000000 0.00000000 0.000000e+00
## 2051   0.00 0.00000000 0.00000000 0.000000e+00
## 2052   0.00 0.00000000 0.00000000 0.000000e+00
## 2053   0.00 0.00000000 0.00000000 0.000000e+00
## 2054   0.00 0.00000000 0.00000000 0.000000e+00
## 2055   0.00 0.00000000 0.00000000 0.000000e+00
## 2056   0.00 0.00000000 0.00000000 0.000000e+00
## 2057   0.00 0.00000000 0.00000000 0.000000e+00
## 2058   0.00 0.00000000 0.00000000 0.000000e+00
## 2059   0.00 0.00000000 0.00000000 0.000000e+00
## 2060   0.00 0.00000000 0.00000000 0.000000e+00
## 2061   0.00 0.00000000 0.00000000 0.000000e+00
## 2062   0.00 0.00000000 0.00000000 0.000000e+00
## 2063   0.00 0.00000000 0.00000000 0.000000e+00
## 2064   0.00 0.00000000 0.00000000 0.000000e+00
## 2065   0.00 0.00000000 0.00000000 0.000000e+00
## 2066   0.00 0.00000000 0.00000000 0.000000e+00
## 2067   0.00 0.00000000 0.00000000 0.000000e+00
## 2068   0.00 0.00000000 0.00000000 0.000000e+00
## 2069   0.00 0.00000000 0.00000000 0.000000e+00
## 2070   0.00 0.00000000 0.00000000 0.000000e+00
## 2071   0.00 0.00000000 0.00000000 0.000000e+00
## 2072   0.00 0.00000000 0.00000000 0.000000e+00
## 2073   0.00 0.00000000 0.00000000 0.000000e+00
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## 2074  0.00 0.00000000 0.00000000 0.000000e+00
## 2075  0.00 0.00000000 0.00000000 0.000000e+00
## 2076  0.00 0.00000000 0.00000000 0.000000e+00
## 2077  0.00 0.00000000 0.00000000 0.000000e+00
## 2078  0.00 0.00000000 0.00000000 0.000000e+00
## 2079  0.00 0.00000000 0.00000000 0.000000e+00
## 2080  0.00 0.00000000 0.00000000 0.000000e+00
## 2081  0.00 0.00000000 0.00000000 0.000000e+00
## 2082  0.00 0.00000000 0.00000000 0.000000e+00
## 2083  0.00 0.00000000 0.00000000 0.000000e+00
## 2084  0.00 0.00000000 0.00000000 0.000000e+00
## 2085  0.00 0.00000000 0.00000000 0.000000e+00
## 2086  0.00 0.00000000 0.00000000 0.000000e+00
## 2087  0.00 0.00000000 0.00000000 0.000000e+00
## 2088  0.00 0.00000000 0.00000000 0.000000e+00
## 2089  0.00 0.00000000 0.00000000 0.000000e+00
## 2090  0.00 0.00000000 0.00000000 0.000000e+00
## 2091  0.00 0.00000000 0.00000000 0.000000e+00
## 2092  0.00 0.00000000 0.00000000 0.000000e+00
## 2093  0.00 0.00000000 0.00000000 0.000000e+00
## 2094  0.00 0.00000000 0.00000000 0.000000e+00
## 2095  0.00 0.00000000 0.00000000 0.000000e+00
## 2096  0.00 0.00000000 0.00000000 0.000000e+00
## 2097  0.00 0.00000000 0.00000000 0.000000e+00
## 2098  0.00 0.00000000 0.00000000 0.000000e+00
## 2099  0.00 0.00000000 0.00000000 0.000000e+00
## 2100  0.00 0.00000000 0.00000000 0.000000e+00
## 2101  0.00 0.00000000 0.00000000 0.000000e+00
## 2102  0.00 0.00000000 0.00000000 0.000000e+00
## 2103  0.00 0.00000000 0.00000000 0.000000e+00
## 2104  0.00 0.00000000 0.00000000 0.000000e+00
## 2105  0.00 0.00000000 0.00000000 0.000000e+00
## 2106  0.00 0.00000000 0.00000000 0.000000e+00
## 2107  0.00 0.00000000 0.00000000 0.000000e+00
## 2108  0.00 0.00000000 0.00000000 0.000000e+00
## 2109  0.00 0.00000000 0.00000000 0.000000e+00
## 2110  0.00 0.00000000 0.00000000 0.000000e+00
## 2111  0.00 0.00000000 0.00000000 0.000000e+00
## 2112  0.00 0.00000000 0.00000000 0.000000e+00
## 2113  0.00 0.00000000 0.00000000 0.000000e+00
## 2114  0.00 0.00000000 0.00000000 0.000000e+00
## 2115  0.00 0.00000000 0.00000000 0.000000e+00
## 2116  0.00 0.00000000 0.00000000 0.000000e+00
## 2117  0.00 0.00000000 0.00000000 0.000000e+00
## 2118  0.00 0.00000000 0.00000000 0.000000e+00
## 2119  0.00 0.00000000 0.00000000 0.000000e+00
## 2120  0.00 0.00000000 0.00000000 0.000000e+00
## 2121  0.00 0.00000000 0.00000000 0.000000e+00
## 2122  0.00 0.00000000 0.00000000 0.000000e+00
## 2123  0.00 0.00000000 0.00000000 0.000000e+00
## 2124  0.00 0.00000000 0.00000000 0.000000e+00
## 2125  0.00 0.00000000 0.00000000 0.000000e+00
## 2126  0.00 0.00000000 0.00000000 0.000000e+00
## 2127  0.00 0.00000000 0.00000000 0.000000e+00
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## 2128  0.00 0.00000000 0.00000000 0.000000e+00
## 2129  0.00 0.00000000 0.00000000 0.000000e+00
## 2130  0.00 0.00000000 0.00000000 0.000000e+00
## 2131  0.00 0.00000000 0.00000000 0.000000e+00
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## 2133  0.00 0.00000000 0.00000000 0.000000e+00
## 2134  0.00 0.00000000 0.00000000 0.000000e+00
## 2135  0.00 0.00000000 0.00000000 0.000000e+00
## 2136  0.00 0.00000000 0.00000000 0.000000e+00
## 2137  0.00 0.00000000 0.00000000 0.000000e+00
## 2138  0.00 0.00000000 0.00000000 0.000000e+00
## 2139  0.00 0.00000000 0.00000000 0.000000e+00
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## 2144  0.00 0.00000000 0.00000000 0.000000e+00
## 2145  0.00 0.00000000 0.00000000 0.000000e+00
## 2146  0.00 0.00000000 0.00000000 0.000000e+00
## 2147  0.00 0.00000000 0.00000000 0.000000e+00
## 2148  0.00 0.00000000 0.00000000 0.000000e+00
## 2149  0.00 0.00000000 0.00000000 0.000000e+00
## 2150  0.00 0.00000000 0.00000000 0.000000e+00
## 2151  0.00 0.00000000 0.00000000 0.000000e+00
## 2152  0.00 0.00000000 0.00000000 0.000000e+00
## 2153  0.00 0.00000000 0.00000000 0.000000e+00
## 2154  0.00 0.00000000 0.00000000 0.000000e+00
## 2155  0.00 0.00000000 0.00000000 0.000000e+00
## 2156  0.00 0.00000000 0.00000000 0.000000e+00
## 2157  0.00 0.00000000 0.00000000 0.000000e+00
## 2158  0.00 0.00000000 0.00000000 0.000000e+00
## 2159  0.00 0.00000000 0.00000000 0.000000e+00
## 2160  0.00 0.00000000 0.00000000 0.000000e+00
## 2161  0.00 0.00000000 0.00000000 0.000000e+00
## 2162  0.00 0.00000000 0.00000000 0.000000e+00
## 2163  0.00 0.00000000 0.00000000 0.000000e+00
## 2164  0.00 0.00000000 0.00000000 0.000000e+00
## 2165  0.00 0.00000000 0.00000000 0.000000e+00
## 2166  0.00 0.00000000 0.00000000 0.000000e+00
## 2167  0.00 0.00000000 0.00000000 0.000000e+00
## 2168  0.00 0.00000000 0.00000000 0.000000e+00
## 2169  0.00 0.00000000 0.00000000 0.000000e+00
## 2170  0.00 0.00000000 0.00000000 0.000000e+00
## 2171  0.00 0.00000000 0.00000000 0.000000e+00
## 2172  0.00 0.00000000 0.00000000 0.000000e+00
## 2173  0.00 0.00000000 0.00000000 0.000000e+00
## 2174  0.00 0.00000000 0.00000000 0.000000e+00
## 2175  0.00 0.00000000 0.00000000 0.000000e+00
## 2176  0.00 0.00000000 0.00000000 0.000000e+00
## 2177  0.00 0.00000000 0.00000000 0.000000e+00
## 2178  0.00 0.00000000 0.00000000 0.000000e+00
## 2179  0.00 0.00000000 0.00000000 0.000000e+00
## 2180  0.00 0.00000000 0.00000000 0.000000e+00
## 2181  0.00 0.00000000 0.00000000 0.000000e+00
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## 2186  0.00 0.00000000 0.00000000 0.000000e+00
## 2187  0.00 0.00000000 0.00000000 0.000000e+00
## 2188  0.00 0.00000000 0.00000000 0.000000e+00
## 2189  0.00 0.00000000 0.00000000 0.000000e+00
## 2190  0.00 0.00000000 0.00000000 0.000000e+00
## 2191  0.00 0.00000000 0.00000000 0.000000e+00
## 2192  0.00 0.00000000 0.00000000 0.000000e+00
## 2193  0.00 0.00000000 0.00000000 0.000000e+00
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## 2195  0.00 0.00000000 0.00000000 0.000000e+00
## 2196  0.00 0.00000000 0.00000000 0.000000e+00
## 2197  0.00 0.00000000 0.00000000 0.000000e+00
## 2198  0.00 0.00000000 0.00000000 0.000000e+00
## 2199  0.00 0.00000000 0.00000000 0.000000e+00
## 2200  0.00 0.00000000 0.00000000 0.000000e+00
## 2201  0.00 0.00000000 0.00000000 0.000000e+00
## 2202  0.00 0.00000000 0.00000000 0.000000e+00
## 2203  0.00 0.00000000 0.00000000 0.000000e+00
## 2204  0.00 0.00000000 0.00000000 0.000000e+00
## 2205  0.00 0.00000000 0.00000000 0.000000e+00
## 2206  0.00 0.00000000 0.00000000 0.000000e+00
## 2207  0.00 0.00000000 0.00000000 0.000000e+00
## 2208  0.00 0.00000000 0.00000000 0.000000e+00
## 2209  0.00 0.00000000 0.00000000 0.000000e+00
## 2210  0.00 0.00000000 0.00000000 0.000000e+00
## 2211  0.00 0.00000000 0.00000000 0.000000e+00
## 2212  0.00 0.00000000 0.00000000 0.000000e+00
## 2213  0.00 0.00000000 0.00000000 0.000000e+00
## 2214  0.00 0.00000000 0.00000000 0.000000e+00
## 2215  0.00 0.00000000 0.00000000 0.000000e+00
## 2216  0.00 0.00000000 0.00000000 0.000000e+00
## 2217  0.00 0.00000000 0.00000000 0.000000e+00
## 2218  0.00 0.00000000 0.00000000 0.000000e+00
## 2219  0.00 0.00000000 0.00000000 0.000000e+00
## 2220  0.00 0.00000000 0.00000000 0.000000e+00
## 2221  0.00 0.00000000 0.00000000 0.000000e+00
## 2222  0.00 0.00000000 0.00000000 0.000000e+00
## 2223  0.00 0.00000000 0.00000000 0.000000e+00
## 2224  0.00 0.00000000 0.00000000 0.000000e+00
## 2225  0.00 0.00000000 0.00000000 0.000000e+00
## 2226  0.00 0.00000000 0.00000000 0.000000e+00
## 2227  0.00 0.00000000 0.00000000 0.000000e+00
## 2228  0.00 0.00000000 0.00000000 0.000000e+00
## 2229  0.00 0.00000000 0.00000000 0.000000e+00
## 2230  0.00 0.00000000 0.00000000 0.000000e+00
## 2231  0.00 0.00000000 0.00000000 0.000000e+00
## 2232  0.00 0.00000000 0.00000000 0.000000e+00
## 2233  0.00 0.00000000 0.00000000 0.000000e+00
## 2234  0.00 0.00000000 0.00000000 0.000000e+00
## 2235  0.00 0.00000000 0.00000000 0.000000e+00
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## 2236  0.00 0.00000000 0.00000000 0.000000e+00
## 2237  0.00 0.00000000 0.00000000 0.000000e+00
## 2238  0.00 0.00000000 0.00000000 0.000000e+00
## 2239  0.00 0.00000000 0.00000000 0.000000e+00
## 2240  0.00 0.00000000 0.00000000 0.000000e+00
## 2241  0.00 0.00000000 0.00000000 0.000000e+00
## 2242  0.00 0.00000000 0.00000000 0.000000e+00
## 2243  0.00 0.00000000 0.00000000 0.000000e+00
## 2244  0.00 0.00000000 0.00000000 0.000000e+00
## 2245  0.00 0.00000000 0.00000000 0.000000e+00
## 2246  0.00 0.00000000 0.00000000 0.000000e+00
## 2247  0.00 0.00000000 0.00000000 0.000000e+00
## 2248  0.00 0.00000000 0.00000000 0.000000e+00
## 2249  0.00 0.00000000 0.00000000 0.000000e+00
## 2250  0.00 0.00000000 0.00000000 0.000000e+00
## 2251  0.00 0.00000000 0.00000000 0.000000e+00
## 2252  0.00 0.00000000 0.00000000 0.000000e+00
## 2253  0.00 0.00000000 0.00000000 0.000000e+00
## 2254  0.00 0.00000000 0.00000000 0.000000e+00
## 2255  0.00 0.00000000 0.00000000 0.000000e+00
## 2256  0.00 0.00000000 0.00000000 0.000000e+00
## 2257  0.00 0.00000000 0.00000000 0.000000e+00
## 2258  0.00 0.00000000 0.00000000 0.000000e+00
## 2259  0.00 0.00000000 0.00000000 0.000000e+00
## 2260  0.00 0.00000000 0.00000000 0.000000e+00
## 2261  0.00 0.00000000 0.00000000 0.000000e+00
## 2262  0.00 0.00000000 0.00000000 0.000000e+00
## 2263  0.00 0.00000000 0.00000000 0.000000e+00
## 2264  0.00 0.00000000 0.00000000 0.000000e+00
## 2265  0.00 0.00000000 0.00000000 0.000000e+00
## 2266  0.00 0.00000000 0.00000000 0.000000e+00
## 2267  0.00 0.00000000 0.00000000 0.000000e+00
## 2268  0.00 0.00000000 0.00000000 0.000000e+00
## 2269  0.00 0.00000000 0.00000000 0.000000e+00
## 2270  0.00 0.00000000 0.00000000 0.000000e+00
## 2271  0.00 0.00000000 0.00000000 0.000000e+00
## 2272  0.00 0.00000000 0.00000000 0.000000e+00
## 2273  0.00 0.00000000 0.00000000 0.000000e+00
## 2274  0.00 0.00000000 0.00000000 0.000000e+00
## 2275  0.00 0.00000000 0.00000000 0.000000e+00
## 2276  0.00 0.00000000 0.00000000 0.000000e+00
## 2277  0.00 0.00000000 0.00000000 0.000000e+00
## 2278  0.00 0.00000000 0.00000000 0.000000e+00
## 2279  0.00 0.00000000 0.00000000 0.000000e+00
## 2280  0.00 0.00000000 0.00000000 0.000000e+00
## 2281  0.00 0.00000000 0.00000000 0.000000e+00
## 2282  0.00 0.00000000 0.00000000 0.000000e+00
## 2283  0.00 0.00000000 0.00000000 0.000000e+00
## 2284  0.00 0.00000000 0.00000000 0.000000e+00
## 2285  0.00 0.00000000 0.00000000 0.000000e+00
## 2286  0.00 0.00000000 0.00000000 0.000000e+00
## 2287  0.00 0.00000000 0.00000000 0.000000e+00
## 2288  0.00 0.00000000 0.00000000 0.000000e+00
## 2289  0.00 0.00000000 0.00000000 0.000000e+00
```

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## 2290   0.00 0.00000000 0.00000000 0.000000e+00
## 2291   0.00 0.00000000 0.00000000 0.000000e+00
## 2292   0.00 0.00000000 0.00000000 0.000000e+00
## 2293   0.00 0.00000000 0.00000000 0.000000e+00
## 2294   0.00 0.00000000 0.00000000 0.000000e+00
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## 2296   0.00 0.00000000 0.00000000 0.000000e+00
## 2297   0.00 0.00000000 0.00000000 0.000000e+00
## 2298   0.00 0.00000000 0.00000000 0.000000e+00
## 2299   0.00 0.00000000 0.00000000 0.000000e+00
## 2300   0.00 0.00000000 0.00000000 0.000000e+00
## 2301   0.00 0.00000000 0.00000000 0.000000e+00
## 2302   0.00 0.00000000 0.00000000 0.000000e+00
## 2303   0.00 0.00000000 0.00000000 0.000000e+00
## 2304   0.00 0.00000000 0.00000000 0.000000e+00
## 2305   0.00 0.00000000 0.00000000 0.000000e+00
## 2306   0.00 0.00000000 0.00000000 0.000000e+00
## 2307   0.00 0.00000000 0.00000000 0.000000e+00
## 2308   0.00 0.00000000 0.00000000 0.000000e+00
## 2309   0.00 0.00000000 0.00000000 0.000000e+00
## 2310   0.00 0.00000000 0.00000000 0.000000e+00
## 2311   0.00 0.00000000 0.00000000 0.000000e+00
## 2312   0.00 0.00000000 0.00000000 0.000000e+00
## 2313   0.00 0.00000000 0.00000000 0.000000e+00
## 2314   0.00 0.00000000 0.00000000 0.000000e+00
## 2315   0.00 0.00000000 0.00000000 0.000000e+00
## 2316   0.00 0.00000000 0.00000000 0.000000e+00
## 2317   0.00 0.00000000 0.00000000 0.000000e+00
## 2318   0.00 0.00000000 0.00000000 0.000000e+00
## 2319   0.00 0.00000000 0.00000000 0.000000e+00
## 2320   0.00 0.00000000 0.00000000 0.000000e+00
## 2321   0.00 0.00000000 0.00000000 0.000000e+00
## 2322   0.00 0.00000000 0.00000000 0.000000e+00
## 2323   0.00 0.00000000 0.00000000 0.000000e+00
## 2324   0.00 0.00000000 0.00000000 0.000000e+00
## 2325   0.00 0.00000000 0.00000000 0.000000e+00
## 2326   0.00 0.00000000 0.00000000 0.000000e+00
## 2327   0.00 0.00000000 0.00000000 0.000000e+00
## 2328   0.00 0.00000000 0.00000000 0.000000e+00
## 2329   0.00 0.00000000 0.00000000 0.000000e+00
## 2330   0.00 0.00000000 0.00000000 0.000000e+00
## 2331   0.00 0.00000000 0.00000000 0.000000e+00
## 2332   0.00 0.00000000 0.00000000 0.000000e+00
## 2333   0.00 0.00000000 0.00000000 0.000000e+00
## 2334   0.00 0.00000000 0.00000000 0.000000e+00
## 2335   0.00 0.00000000 0.00000000 0.000000e+00
## 2336   0.00 0.00000000 0.00000000 0.000000e+00
## 2337   0.00 0.00000000 0.00000000 0.000000e+00
## 2338   0.00 0.00000000 0.00000000 0.000000e+00
## 2339   0.00 0.00000000 0.00000000 0.000000e+00
## 2340   0.00 0.00000000 0.00000000 0.000000e+00
## 2341   0.00 0.00000000 0.00000000 0.000000e+00
## 2342   0.00 0.00000000 0.00000000 0.000000e+00
## 2343   0.00 0.00000000 0.00000000 0.000000e+00
```

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## 2344   0.00 0.00000000 0.00000000 0.000000e+00
## 2345   0.00 0.00000000 0.00000000 0.000000e+00
## 2346   0.00 0.00000000 0.00000000 0.000000e+00
## 2347   0.00 0.00000000 0.00000000 0.000000e+00
## 2348   0.00 0.00000000 0.00000000 0.000000e+00
## 2349   0.00 0.00000000 0.00000000 0.000000e+00
## 2350   0.00 0.00000000 0.00000000 0.000000e+00
## 2351   0.00 0.00000000 0.00000000 0.000000e+00
## 2352   0.00 0.00000000 0.00000000 0.000000e+00
## 2353   0.00 0.00000000 0.00000000 0.000000e+00
## 2354   0.00 0.00000000 0.00000000 0.000000e+00
## 2355   0.00 0.00000000 0.00000000 0.000000e+00
## 2356   0.00 0.00000000 0.00000000 0.000000e+00
## 2357   0.00 0.00000000 0.00000000 0.000000e+00
## 2358   0.00 0.00000000 0.00000000 0.000000e+00
## 2359   0.00 0.00000000 0.00000000 0.000000e+00
## 2360   0.00 0.00000000 0.00000000 0.000000e+00
## 2361   0.00 0.00000000 0.00000000 0.000000e+00
## 2362   0.00 0.00000000 0.00000000 0.000000e+00
## 2363   0.00 0.00000000 0.00000000 0.000000e+00
## 2364   0.00 0.00000000 0.00000000 0.000000e+00
## 2365   0.00 0.00000000 0.00000000 0.000000e+00
## 2366   0.00 0.00000000 0.00000000 0.000000e+00
## 2367   0.00 0.00000000 0.00000000 0.000000e+00
## 2368   0.00 0.00000000 0.00000000 0.000000e+00
## 2369   0.00 0.00000000 0.00000000 0.000000e+00
## 2370   0.00 0.00000000 0.00000000 0.000000e+00
## 2371   0.00 0.00000000 0.00000000 0.000000e+00
## 2372   0.00 0.00000000 0.00000000 0.000000e+00
## 2373   0.00 0.00000000 0.00000000 0.000000e+00
## 2374   0.00 0.00000000 0.00000000 0.000000e+00
## 2375   0.00 0.00000000 0.00000000 0.000000e+00
## 2376   0.00 0.00000000 0.00000000 0.000000e+00
## 2377   0.00 0.00000000 0.00000000 0.000000e+00
## 2378   0.00 0.00000000 0.00000000 0.000000e+00
## 2379   0.00 0.00000000 0.00000000 0.000000e+00
## 2380   0.00 0.00000000 0.00000000 0.000000e+00
## 2381   0.00 0.00000000 0.00000000 0.000000e+00
## 2382   0.00 0.00000000 0.00000000 0.000000e+00
## 2383   0.00 0.00000000 0.00000000 0.000000e+00
## 2384   0.00 0.00000000 0.00000000 0.000000e+00
## 2385   0.00 0.00000000 0.00000000 0.000000e+00
## 2386   0.00 0.00000000 0.00000000 0.000000e+00
## 2387   0.00 0.00000000 0.00000000 0.000000e+00
## 2388   0.00 0.00000000 0.00000000 0.000000e+00
## 2389   0.00 0.00000000 0.00000000 0.000000e+00
## 2390   0.00 0.00000000 0.00000000 0.000000e+00
## 2391   0.00 0.00000000 0.00000000 0.000000e+00
## 2392   0.00 0.00000000 0.00000000 0.000000e+00
## 2393   0.00 0.00000000 0.00000000 0.000000e+00
## 2394   0.00 0.00000000 0.00000000 0.000000e+00
## 2395   0.00 0.00000000 0.00000000 0.000000e+00
## 2396   0.00 0.00000000 0.00000000 0.000000e+00
## 2397   0.00 0.00000000 0.00000000 0.000000e+00
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## 2398  0.00 0.00000000 0.00000000 0.000000e+00
## 2399  0.00 0.00000000 0.00000000 0.000000e+00
## 2400  0.00 0.00000000 0.00000000 0.000000e+00
## 2401  0.00 0.00000000 0.00000000 0.000000e+00
## 2402  0.00 0.00000000 0.00000000 0.000000e+00
## 2403  0.00 0.00000000 0.00000000 0.000000e+00
## 2404  0.00 0.00000000 0.00000000 0.000000e+00
## 2405  0.00 0.00000000 0.00000000 0.000000e+00
## 2406  0.00 0.00000000 0.00000000 0.000000e+00
## 2407  0.00 0.00000000 0.00000000 0.000000e+00
## 2408  0.00 0.00000000 0.00000000 0.000000e+00
## 2409  0.00 0.00000000 0.00000000 0.000000e+00
## 2410  0.00 0.00000000 0.00000000 0.000000e+00
## 2411  0.00 0.00000000 0.00000000 0.000000e+00
## 2412  0.00 0.00000000 0.00000000 0.000000e+00
## 2413  0.00 0.00000000 0.00000000 0.000000e+00
## 2414  0.00 0.00000000 0.00000000 0.000000e+00
## 2415  0.00 0.00000000 0.00000000 0.000000e+00
## 2416  0.00 0.00000000 0.00000000 0.000000e+00
## 2417  0.00 0.00000000 0.00000000 0.000000e+00
## 2418  0.00 0.00000000 0.00000000 0.000000e+00
## 2419  0.00 0.00000000 0.00000000 0.000000e+00
## 2420  0.00 0.00000000 0.00000000 0.000000e+00
## 2421  0.00 0.00000000 0.00000000 0.000000e+00
## 2422  0.00 0.00000000 0.00000000 0.000000e+00
## 2423  0.00 0.00000000 0.00000000 0.000000e+00
## 2424  0.00 0.00000000 0.00000000 0.000000e+00
## 2425  0.00 0.00000000 0.00000000 0.000000e+00
## 2426  0.00 0.00000000 0.00000000 0.000000e+00
## 2427  0.00 0.00000000 0.00000000 0.000000e+00
## 2428  0.00 0.00000000 0.00000000 0.000000e+00
## 2429  0.00 0.00000000 0.00000000 0.000000e+00
## 2430  0.00 0.00000000 0.00000000 0.000000e+00
## 2431  0.00 0.00000000 0.00000000 0.000000e+00
## 2432  0.00 0.00000000 0.00000000 0.000000e+00
## 2433  0.00 0.00000000 0.00000000 0.000000e+00
## 2434  0.00 0.00000000 0.00000000 0.000000e+00
## 2435  0.00 0.00000000 0.00000000 0.000000e+00
## 2436  0.00 0.00000000 0.00000000 0.000000e+00
## 2437  0.00 0.00000000 0.00000000 0.000000e+00
## 2438  0.00 0.00000000 0.00000000 0.000000e+00
## 2439  0.00 0.00000000 0.00000000 0.000000e+00
## 2440  0.00 0.00000000 0.00000000 0.000000e+00
## 2441  0.00 0.00000000 0.00000000 0.000000e+00
## 2442  0.00 0.00000000 0.00000000 0.000000e+00
## 2443  0.00 0.00000000 0.00000000 0.000000e+00
## 2444  0.00 0.00000000 0.00000000 0.000000e+00
## 2445  0.00 0.00000000 0.00000000 0.000000e+00
## 2446  0.00 0.00000000 0.00000000 0.000000e+00
## 2447  0.00 0.00000000 0.00000000 0.000000e+00
## 2448  0.00 0.00000000 0.00000000 0.000000e+00
## 2449  0.00 0.00000000 0.00000000 0.000000e+00
## 2450  0.00 0.00000000 0.00000000 0.000000e+00
## 2451  0.00 0.00000000 0.00000000 0.000000e+00
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## 2452  0.00 0.00000000 0.00000000 0.000000e+00
## 2453  0.00 0.00000000 0.00000000 0.000000e+00
## 2454  0.00 0.00000000 0.00000000 0.000000e+00
## 2455  0.00 0.00000000 0.00000000 0.000000e+00
## 2456  0.00 0.00000000 0.00000000 0.000000e+00
## 2457  0.00 0.00000000 0.00000000 0.000000e+00
## 2458  0.00 0.00000000 0.00000000 0.000000e+00
## 2459  0.00 0.00000000 0.00000000 0.000000e+00
## 2460  0.00 0.00000000 0.00000000 0.000000e+00
## 2461  0.00 0.00000000 0.00000000 0.000000e+00
## 2462  0.00 0.00000000 0.00000000 0.000000e+00
## 2463  0.00 0.00000000 0.00000000 0.000000e+00
## 2464  0.00 0.00000000 0.00000000 0.000000e+00
## 2465  0.00 0.00000000 0.00000000 0.000000e+00
## 2466  0.00 0.00000000 0.00000000 0.000000e+00
## 2467  0.00 0.00000000 0.00000000 0.000000e+00
## 2468  0.00 0.00000000 0.00000000 0.000000e+00
## 2469  0.00 0.00000000 0.00000000 0.000000e+00
## 2470  0.00 0.00000000 0.00000000 0.000000e+00
## 2471  0.00 0.00000000 0.00000000 0.000000e+00
## 2472  0.00 0.00000000 0.00000000 0.000000e+00
## 2473  0.00 0.00000000 0.00000000 0.000000e+00
## 2474  0.00 0.00000000 0.00000000 0.000000e+00
## 2475  0.00 0.00000000 0.00000000 0.000000e+00
## 2476  0.00 0.00000000 0.00000000 0.000000e+00
## 2477  0.00 0.00000000 0.00000000 0.000000e+00
## 2478  0.00 0.00000000 0.00000000 0.000000e+00
## 2479  0.00 0.00000000 0.00000000 0.000000e+00
## 2480  0.00 0.00000000 0.00000000 0.000000e+00
## 2481  0.00 0.00000000 0.00000000 0.000000e+00
## 2482  0.00 0.00000000 0.00000000 0.000000e+00
## 2483  0.00 0.00000000 0.00000000 0.000000e+00
## 2484  0.00 0.00000000 0.00000000 0.000000e+00
## 2485  0.00 0.00000000 0.00000000 0.000000e+00
## 2486  0.00 0.00000000 0.00000000 0.000000e+00
## 2487  0.00 0.00000000 0.00000000 0.000000e+00
## 2488  0.00 0.00000000 0.00000000 0.000000e+00
## 2489  0.00 0.00000000 0.00000000 0.000000e+00
## 2490  0.00 0.00000000 0.00000000 0.000000e+00
## 2491  0.00 0.00000000 0.00000000 0.000000e+00
## 2492  0.00 0.00000000 0.00000000 0.000000e+00
## 2493  0.00 0.00000000 0.00000000 0.000000e+00
## 2494  0.00 0.00000000 0.00000000 0.000000e+00
## 2495  0.00 0.00000000 0.00000000 0.000000e+00
## 2496  0.00 0.00000000 0.00000000 0.000000e+00
## 2497  0.00 0.00000000 0.00000000 0.000000e+00
## 2498  0.00 0.00000000 0.00000000 0.000000e+00
## 2499  0.00 0.00000000 0.00000000 0.000000e+00
## 2500  0.00 0.00000000 0.00000000 0.000000e+00
## 2501  0.00 0.00000000 0.00000000 0.000000e+00
## 2502  0.00 0.00000000 0.00000000 0.000000e+00
## 2503  0.00 0.00000000 0.00000000 0.000000e+00
## 2504  0.00 0.00000000 0.00000000 0.000000e+00
## 2505  0.00 0.00000000 0.00000000 0.000000e+00
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## 2506  0.00 0.00000000 0.00000000 0.000000e+00
## 2507  0.00 0.00000000 0.00000000 0.000000e+00
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## 2509  0.00 0.00000000 0.00000000 0.000000e+00
## 2510  0.00 0.00000000 0.00000000 0.000000e+00
## 2511  0.00 0.00000000 0.00000000 0.000000e+00
## 2512  0.00 0.00000000 0.00000000 0.000000e+00
## 2513  0.00 0.00000000 0.00000000 0.000000e+00
## 2514  0.00 0.00000000 0.00000000 0.000000e+00
## 2515  0.00 0.00000000 0.00000000 0.000000e+00
## 2516  0.00 0.00000000 0.00000000 0.000000e+00
## 2517  0.00 0.00000000 0.00000000 0.000000e+00
## 2518  0.00 0.00000000 0.00000000 0.000000e+00
## 2519  0.00 0.00000000 0.00000000 0.000000e+00
## 2520  0.00 0.00000000 0.00000000 0.000000e+00
## 2521  0.00 0.00000000 0.00000000 0.000000e+00
## 2522  0.00 0.00000000 0.00000000 0.000000e+00
## 2523  0.00 0.00000000 0.00000000 0.000000e+00
## 2524  0.00 0.00000000 0.00000000 0.000000e+00
## 2525  0.00 0.00000000 0.00000000 0.000000e+00
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## 2528  0.00 0.00000000 0.00000000 0.000000e+00
## 2529  0.00 0.00000000 0.00000000 0.000000e+00
## 2530  0.00 0.00000000 0.00000000 0.000000e+00
## 2531  0.00 0.00000000 0.00000000 0.000000e+00
## 2532  0.00 0.00000000 0.00000000 0.000000e+00
## 2533  0.00 0.00000000 0.00000000 0.000000e+00
## 2534  0.00 0.00000000 0.00000000 0.000000e+00
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## 2542  0.00 0.00000000 0.00000000 0.000000e+00
## 2543  0.00 0.00000000 0.00000000 0.000000e+00
## 2544  0.00 0.00000000 0.00000000 0.000000e+00
## 2545  0.00 0.00000000 0.00000000 0.000000e+00
## 2546  0.00 0.00000000 0.00000000 0.000000e+00
## 2547  0.00 0.00000000 0.00000000 0.000000e+00
## 2548  0.00 0.00000000 0.00000000 0.000000e+00
## 2549  0.00 0.00000000 0.00000000 0.000000e+00
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## 2551  0.00 0.00000000 0.00000000 0.000000e+00
## 2552  0.00 0.00000000 0.00000000 0.000000e+00
## 2553  0.00 0.00000000 0.00000000 0.000000e+00
## 2554  0.00 0.00000000 0.00000000 0.000000e+00
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## 2559  0.00 0.00000000 0.00000000 0.000000e+00
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## 2566  0.00 0.00000000 0.00000000 0.000000e+00
## 2567  0.00 0.00000000 0.00000000 0.000000e+00
## 2568  0.00 0.00000000 0.00000000 0.000000e+00
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## 2576  0.00 0.00000000 0.00000000 0.000000e+00
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## 2582  0.00 0.00000000 0.00000000 0.000000e+00
## 2583  0.00 0.00000000 0.00000000 0.000000e+00
## 2584  0.00 0.00000000 0.00000000 0.000000e+00
## 2585  0.00 0.00000000 0.00000000 0.000000e+00
## 2586  0.00 0.00000000 0.00000000 0.000000e+00
## 2587  0.00 0.00000000 0.00000000 0.000000e+00
## 2588  0.00 0.00000000 0.00000000 0.000000e+00
## 2589  0.00 0.00000000 0.00000000 0.000000e+00
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## 2595  0.00 0.00000000 0.00000000 0.000000e+00
## 2596  0.00 0.00000000 0.00000000 0.000000e+00
## 2597  0.00 0.00000000 0.00000000 0.000000e+00
## 2598  0.00 0.00000000 0.00000000 0.000000e+00
## 2599  0.00 0.00000000 0.00000000 0.000000e+00
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## 2601  0.00 0.00000000 0.00000000 0.000000e+00
## 2602  0.00 0.00000000 0.00000000 0.000000e+00
## 2603  0.00 0.00000000 0.00000000 0.000000e+00
## 2604  0.00 0.00000000 0.00000000 0.000000e+00
## 2605  0.00 0.00000000 0.00000000 0.000000e+00
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## 2607  0.00 0.00000000 0.00000000 0.000000e+00
## 2608  0.00 0.00000000 0.00000000 0.000000e+00
## 2609  0.00 0.00000000 0.00000000 0.000000e+00
## 2610  0.00 0.00000000 0.00000000 0.000000e+00
## 2611  0.00 0.00000000 0.00000000 0.000000e+00
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## 2613  0.00 0.00000000 0.00000000 0.000000e+00
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## 2614   0.00 0.00000000 0.00000000 0.000000e+00
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## 2619   0.00 0.00000000 0.00000000 0.000000e+00
## 2620   0.00 0.00000000 0.00000000 0.000000e+00
## 2621   0.00 0.00000000 0.00000000 0.000000e+00
## 2622   0.00 0.00000000 0.00000000 0.000000e+00
## 2623   0.00 0.00000000 0.00000000 0.000000e+00
## 2624   0.00 0.00000000 0.00000000 0.000000e+00
## 2625   0.00 0.00000000 0.00000000 0.000000e+00
## 2626   0.00 0.00000000 0.00000000 0.000000e+00
## 2627   0.00 0.00000000 0.00000000 0.000000e+00
## 2628   0.00 0.00000000 0.00000000 0.000000e+00
## 2629   0.00 0.00000000 0.00000000 0.000000e+00
## 2630   0.00 0.00000000 0.00000000 0.000000e+00
## 2631   0.00 0.00000000 0.00000000 0.000000e+00
## 2632   0.00 0.00000000 0.00000000 0.000000e+00
## 2633   0.00 0.00000000 0.00000000 0.000000e+00
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## 2635   0.00 0.00000000 0.00000000 0.000000e+00
## 2636   0.00 0.00000000 0.00000000 0.000000e+00
## 2637   0.00 0.00000000 0.00000000 0.000000e+00
## 2638   0.00 0.00000000 0.00000000 0.000000e+00
## 2639   0.00 0.00000000 0.00000000 0.000000e+00
## 2640   0.00 0.00000000 0.00000000 0.000000e+00
## 2641   0.00 0.00000000 0.00000000 0.000000e+00
## 2642   0.00 0.00000000 0.00000000 0.000000e+00
## 2643   0.00 0.00000000 0.00000000 0.000000e+00
## 2644   0.00 0.00000000 0.00000000 0.000000e+00
## 2645   0.00 0.00000000 0.00000000 0.000000e+00
## 2646   0.00 0.00000000 0.00000000 0.000000e+00
## 2647   0.00 0.00000000 0.00000000 0.000000e+00
## 2648   0.00 0.00000000 0.00000000 0.000000e+00
## 2649   0.00 0.00000000 0.00000000 0.000000e+00
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## 2655   0.00 0.00000000 0.00000000 0.000000e+00
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## 2657   0.00 0.00000000 0.00000000 0.000000e+00
## 2658   0.00 0.00000000 0.00000000 0.000000e+00
## 2659   0.00 0.00000000 0.00000000 0.000000e+00
## 2660   0.00 0.00000000 0.00000000 0.000000e+00
## 2661   0.00 0.00000000 0.00000000 0.000000e+00
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## 2663   0.00 0.00000000 0.00000000 0.000000e+00
## 2664   0.00 0.00000000 0.00000000 0.000000e+00
## 2665   0.00 0.00000000 0.00000000 0.000000e+00
## 2666   0.00 0.00000000 0.00000000 0.000000e+00
## 2667   0.00 0.00000000 0.00000000 0.000000e+00
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## 2668  0.00 0.00000000 0.00000000 0.000000e+00
## 2669  0.00 0.00000000 0.00000000 0.000000e+00
## 2670  0.00 0.00000000 0.00000000 0.000000e+00
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## 2672  0.00 0.00000000 0.00000000 0.000000e+00
## 2673  0.00 0.00000000 0.00000000 0.000000e+00
## 2674  0.00 0.00000000 0.00000000 0.000000e+00
## 2675  0.00 0.00000000 0.00000000 0.000000e+00
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## 2677  0.00 0.00000000 0.00000000 0.000000e+00
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## 2679  0.00 0.00000000 0.00000000 0.000000e+00
## 2680  0.00 0.00000000 0.00000000 0.000000e+00
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## 2683  0.00 0.00000000 0.00000000 0.000000e+00
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## 2686  0.00 0.00000000 0.00000000 0.000000e+00
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## 2688  0.00 0.00000000 0.00000000 0.000000e+00
## 2689  0.00 0.00000000 0.00000000 0.000000e+00
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## 2691  0.00 0.00000000 0.00000000 0.000000e+00
## 2692  0.00 0.00000000 0.00000000 0.000000e+00
## 2693  0.00 0.00000000 0.00000000 0.000000e+00
## 2694  0.00 0.00000000 0.00000000 0.000000e+00
## 2695  0.00 0.00000000 0.00000000 0.000000e+00
## 2696  0.00 0.00000000 0.00000000 0.000000e+00
## 2697  0.00 0.00000000 0.00000000 0.000000e+00
## 2698  0.00 0.00000000 0.00000000 0.000000e+00
## 2699  0.00 0.00000000 0.00000000 0.000000e+00
## 2700  0.00 0.00000000 0.00000000 0.000000e+00
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## 2704  0.00 0.00000000 0.00000000 0.000000e+00
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## 2707  0.00 0.00000000 0.00000000 0.000000e+00
## 2708  0.00 0.00000000 0.00000000 0.000000e+00
## 2709  0.00 0.00000000 0.00000000 0.000000e+00
## 2710  0.00 0.00000000 0.00000000 0.000000e+00
## 2711  0.00 0.00000000 0.00000000 0.000000e+00
## 2712  0.00 0.00000000 0.00000000 0.000000e+00
## 2713  0.00 0.00000000 0.00000000 0.000000e+00
## 2714  0.00 0.00000000 0.00000000 0.000000e+00
## 2715  0.00 0.00000000 0.00000000 0.000000e+00
## 2716  0.00 0.00000000 0.00000000 0.000000e+00
## 2717  0.00 0.00000000 0.00000000 0.000000e+00
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## 2719  0.00 0.00000000 0.00000000 0.000000e+00
## 2720  0.00 0.00000000 0.00000000 0.000000e+00
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## 2722  0.00 0.00000000 0.00000000 0.000000e+00
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## 2726  0.00 0.00000000 0.00000000 0.000000e+00
## 2727  0.00 0.00000000 0.00000000 0.000000e+00
## 2728  0.00 0.00000000 0.00000000 0.000000e+00
## 2729  0.00 0.00000000 0.00000000 0.000000e+00
## 2730  0.00 0.00000000 0.00000000 0.000000e+00
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## 2732  0.00 0.00000000 0.00000000 0.000000e+00
## 2733  0.00 0.00000000 0.00000000 0.000000e+00
## 2734  0.00 0.00000000 0.00000000 0.000000e+00
## 2735  0.00 0.00000000 0.00000000 0.000000e+00
## 2736  0.00 0.00000000 0.00000000 0.000000e+00
## 2737  0.00 0.00000000 0.00000000 0.000000e+00
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## 2744  0.00 0.00000000 0.00000000 0.000000e+00
## 2745  0.00 0.00000000 0.00000000 0.000000e+00
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## 2747  0.00 0.00000000 0.00000000 0.000000e+00
## 2748  0.00 0.00000000 0.00000000 0.000000e+00
## 2749  0.00 0.00000000 0.00000000 0.000000e+00
## 2750  0.00 0.00000000 0.00000000 0.000000e+00
## 2751  0.00 0.00000000 0.00000000 0.000000e+00
## 2752  0.00 0.00000000 0.00000000 0.000000e+00
## 2753  0.00 0.00000000 0.00000000 0.000000e+00
## 2754  0.00 0.00000000 0.00000000 0.000000e+00
## 2755  0.00 0.00000000 0.00000000 0.000000e+00
## 2756  0.00 0.00000000 0.00000000 0.000000e+00
## 2757  0.00 0.00000000 0.00000000 0.000000e+00
## 2758  0.00 0.00000000 0.00000000 0.000000e+00
## 2759  0.00 0.00000000 0.00000000 0.000000e+00
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## 2770  0.00 0.00000000 0.00000000 0.000000e+00
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## 2772  0.00 0.00000000 0.00000000 0.000000e+00
## 2773  0.00 0.00000000 0.00000000 0.000000e+00
## 2774  0.00 0.00000000 0.00000000 0.000000e+00
## 2775  0.00 0.00000000 0.00000000 0.000000e+00
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## 2777  0.00 0.00000000 0.00000000 0.000000e+00
## 2778  0.00 0.00000000 0.00000000 0.000000e+00
## 2779  0.00 0.00000000 0.00000000 0.000000e+00
## 2780  0.00 0.00000000 0.00000000 0.000000e+00
## 2781  0.00 0.00000000 0.00000000 0.000000e+00
## 2782  0.00 0.00000000 0.00000000 0.000000e+00
## 2783  0.00 0.00000000 0.00000000 0.000000e+00
## 2784  0.00 0.00000000 0.00000000 0.000000e+00
## 2785  0.00 0.00000000 0.00000000 0.000000e+00
## 2786  0.00 0.00000000 0.00000000 0.000000e+00
## 2787  0.00 0.00000000 0.00000000 0.000000e+00
## 2788  0.00 0.00000000 0.00000000 0.000000e+00
## 2789  0.00 0.00000000 0.00000000 0.000000e+00
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## 2792  0.00 0.00000000 0.00000000 0.000000e+00
## 2793  0.00 0.00000000 0.00000000 0.000000e+00
## 2794  0.00 0.00000000 0.00000000 0.000000e+00
## 2795  0.00 0.00000000 0.00000000 0.000000e+00
## 2796  0.00 0.00000000 0.00000000 0.000000e+00
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## 2808  0.00 0.00000000 0.00000000 0.000000e+00
## 2809  0.00 0.00000000 0.00000000 0.000000e+00
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## 2812  0.00 0.00000000 0.00000000 0.000000e+00
## 2813  0.00 0.00000000 0.00000000 0.000000e+00
## 2814  0.00 0.00000000 0.00000000 0.000000e+00
## 2815  0.00 0.00000000 0.00000000 0.000000e+00
## 2816  0.00 0.00000000 0.00000000 0.000000e+00
## 2817  0.00 0.00000000 0.00000000 0.000000e+00
## 2818  0.00 0.00000000 0.00000000 0.000000e+00
## 2819  0.00 0.00000000 0.00000000 0.000000e+00
## 2820  0.00 0.00000000 0.00000000 0.000000e+00
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## 2823  0.00 0.00000000 0.00000000 0.000000e+00
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## 2836  0.00 0.00000000 0.00000000 0.000000e+00
## 2837  0.00 0.00000000 0.00000000 0.000000e+00
## 2838  0.00 0.00000000 0.00000000 0.000000e+00
## 2839  0.00 0.00000000 0.00000000 0.000000e+00
## 2840  0.00 0.00000000 0.00000000 0.000000e+00
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## 2842  0.00 0.00000000 0.00000000 0.000000e+00
## 2843  0.00 0.00000000 0.00000000 0.000000e+00
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## 2845  0.00 0.00000000 0.00000000 0.000000e+00
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## 2849  0.00 0.00000000 0.00000000 0.000000e+00
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## 2852  0.00 0.00000000 0.00000000 0.000000e+00
## 2853  0.00 0.00000000 0.00000000 0.000000e+00
## 2854  0.00 0.00000000 0.00000000 0.000000e+00
## 2855  0.00 0.00000000 0.00000000 0.000000e+00
## 2856  0.00 0.00000000 0.00000000 0.000000e+00
## 2857  0.00 0.00000000 0.00000000 0.000000e+00
## 2858  0.00 0.00000000 0.00000000 0.000000e+00
## 2859  0.00 0.00000000 0.00000000 0.000000e+00
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## 2862  0.00 0.00000000 0.00000000 0.000000e+00
## 2863  0.00 0.00000000 0.00000000 0.000000e+00
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## 2865  0.00 0.00000000 0.00000000 0.000000e+00
## 2866  0.00 0.00000000 0.00000000 0.000000e+00
## 2867  0.00 0.00000000 0.00000000 0.000000e+00
## 2868  0.00 0.00000000 0.00000000 0.000000e+00
## 2869  0.00 0.00000000 0.00000000 0.000000e+00
## 2870  0.00 0.00000000 0.00000000 0.000000e+00
## 2871  0.00 0.00000000 0.00000000 0.000000e+00
## 2872  0.00 0.00000000 0.00000000 0.000000e+00
## 2873  0.00 0.00000000 0.00000000 0.000000e+00
## 2874  0.00 0.00000000 0.00000000 0.000000e+00
## 2875  0.00 0.00000000 0.00000000 0.000000e+00
## 2876  0.00 0.00000000 0.00000000 0.000000e+00
## 2877  0.00 0.00000000 0.00000000 0.000000e+00
## 2878  0.00 0.00000000 0.00000000 0.000000e+00
## 2879  0.00 0.00000000 0.00000000 0.000000e+00
## 2880  0.00 0.00000000 0.00000000 0.000000e+00
## 2881  0.00 0.00000000 0.00000000 0.000000e+00
## 2882  0.00 0.00000000 0.00000000 0.000000e+00
## 2883  0.00 0.00000000 0.00000000 0.000000e+00
```

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## 2884  0.00 0.00000000 0.00000000 0.000000e+00
## 2885  0.00 0.00000000 0.00000000 0.000000e+00
## 2886  0.00 0.00000000 0.00000000 0.000000e+00
## 2887  0.00 0.00000000 0.00000000 0.000000e+00
## 2888  0.00 0.00000000 0.00000000 0.000000e+00
## 2889  0.00 0.00000000 0.00000000 0.000000e+00
## 2890  0.00 0.00000000 0.00000000 0.000000e+00
## 2891  0.00 0.00000000 0.00000000 0.000000e+00
## 2892  0.00 0.00000000 0.00000000 0.000000e+00
## 2893  0.00 0.00000000 0.00000000 0.000000e+00
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## 2903  0.00 0.00000000 0.00000000 0.000000e+00
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## 2906  0.00 0.00000000 0.00000000 0.000000e+00
## 2907  0.00 0.00000000 0.00000000 0.000000e+00
## 2908  0.00 0.00000000 0.00000000 0.000000e+00
## 2909  0.00 0.00000000 0.00000000 0.000000e+00
## 2910  0.00 0.00000000 0.00000000 0.000000e+00
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## 2954  0.00 0.00000000 0.00000000 0.000000e+00
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## 3299  0.00 0.00000000 0.00000000 0.000000e+00
## 3300  0.00 0.00000000 0.00000000 0.000000e+00
## 3301  0.00 0.00000000 0.00000000 0.000000e+00
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## 3476  0.00 0.00000000 0.00000000 0.000000e+00
## 3477  0.00 0.00000000 0.00000000 0.000000e+00
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## 3558  0.00 0.00000000 0.00000000 0.000000e+00
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## 3652   0.00 0.00000000 0.00000000 0.000000e+00
## 3653   0.00 0.00000000 0.00000000 0.000000e+00
## 3654   0.00 0.00000000 0.00000000 0.000000e+00
## 3655   0.00 0.00000000 0.00000000 0.000000e+00
## 3656   0.00 0.00000000 0.00000000 0.000000e+00
## 3657   0.00 0.00000000 0.00000000 0.000000e+00
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## 3662   0.00 0.00000000 0.00000000 0.000000e+00
## 3663   0.00 0.00000000 0.00000000 0.000000e+00
## 3664   0.00 0.00000000 0.00000000 0.000000e+00
## 3665   0.00 0.00000000 0.00000000 0.000000e+00
## 3666   0.00 0.00000000 0.00000000 0.000000e+00
## 3667   0.00 0.00000000 0.00000000 0.000000e+00
## 3668   0.00 0.00000000 0.00000000 0.000000e+00
## 3669   0.00 0.00000000 0.00000000 0.000000e+00
## 3670   0.00 0.00000000 0.00000000 0.000000e+00
## 3671   0.00 0.00000000 0.00000000 0.000000e+00
## 3672   0.00 0.00000000 0.00000000 0.000000e+00
## 3673   0.00 0.00000000 0.00000000 0.000000e+00
## 3674   0.00 0.00000000 0.00000000 0.000000e+00
## 3675   0.00 0.00000000 0.00000000 0.000000e+00
## 3676   0.00 0.00000000 0.00000000 0.000000e+00
## 3677   0.00 0.00000000 0.00000000 0.000000e+00
## 3678   0.00 0.00000000 0.00000000 0.000000e+00
## 3679   0.00 0.00000000 0.00000000 0.000000e+00
## 3680   0.00 0.00000000 0.00000000 0.000000e+00
## 3681   0.00 0.00000000 0.00000000 0.000000e+00
## 3682   0.00 0.00000000 0.00000000 0.000000e+00
## 3683   0.00 0.00000000 0.00000000 0.000000e+00
## 3684   0.00 0.00000000 0.00000000 0.000000e+00
## 3685   0.00 0.00000000 0.00000000 0.000000e+00
## 3686   0.00 0.00000000 0.00000000 0.000000e+00
## 3687   0.00 0.00000000 0.00000000 0.000000e+00
## 3688   0.00 0.00000000 0.00000000 0.000000e+00
## 3689   0.00 0.00000000 0.00000000 0.000000e+00
## 3690   0.00 0.00000000 0.00000000 0.000000e+00
## 3691   0.00 0.00000000 0.00000000 0.000000e+00
## 3692   0.00 0.00000000 0.00000000 0.000000e+00
## 3693   0.00 0.00000000 0.00000000 0.000000e+00
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## 3694  0.00 0.00000000 0.00000000 0.000000e+00
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## 3700  0.00 0.00000000 0.00000000 0.000000e+00
## 3701  0.00 0.00000000 0.00000000 0.000000e+00
## 3702  0.00 0.00000000 0.00000000 0.000000e+00
## 3703  0.00 0.00000000 0.00000000 0.000000e+00
## 3704  0.00 0.00000000 0.00000000 0.000000e+00
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## 3708  0.00 0.00000000 0.00000000 0.000000e+00
## 3709  0.00 0.00000000 0.00000000 0.000000e+00
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## 3712  0.00 0.00000000 0.00000000 0.000000e+00
## 3713  0.00 0.00000000 0.00000000 0.000000e+00
## 3714  0.00 0.00000000 0.00000000 0.000000e+00
## 3715  0.00 0.00000000 0.00000000 0.000000e+00
## 3716  0.00 0.00000000 0.00000000 0.000000e+00
## 3717  0.00 0.00000000 0.00000000 0.000000e+00
## 3718  0.00 0.00000000 0.00000000 0.000000e+00
## 3719  0.00 0.00000000 0.00000000 0.000000e+00
## 3720  0.00 0.00000000 0.00000000 0.000000e+00
## 3721  0.00 0.00000000 0.00000000 0.000000e+00
## 3722  0.00 0.00000000 0.00000000 0.000000e+00
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## 3729  0.00 0.00000000 0.00000000 0.000000e+00
## 3730  0.00 0.00000000 0.00000000 0.000000e+00
## 3731  0.00 0.00000000 0.00000000 0.000000e+00
## 3732  0.00 0.00000000 0.00000000 0.000000e+00
## 3733  0.00 0.00000000 0.00000000 0.000000e+00
## 3734  0.00 0.00000000 0.00000000 0.000000e+00
## 3735  0.00 0.00000000 0.00000000 0.000000e+00
## 3736  0.00 0.00000000 0.00000000 0.000000e+00
## 3737  0.00 0.00000000 0.00000000 0.000000e+00
## 3738  0.00 0.00000000 0.00000000 0.000000e+00
## 3739  0.00 0.00000000 0.00000000 0.000000e+00
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## 3742  0.00 0.00000000 0.00000000 0.000000e+00
## 3743  0.00 0.00000000 0.00000000 0.000000e+00
## 3744  0.00 0.00000000 0.00000000 0.000000e+00
## 3745  0.00 0.00000000 0.00000000 0.000000e+00
## 3746  0.00 0.00000000 0.00000000 0.000000e+00
## 3747  0.00 0.00000000 0.00000000 0.000000e+00
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## 3753  0.00 0.00000000 0.00000000 0.000000e+00
## 3754  0.00 0.00000000 0.00000000 0.000000e+00
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## 3769  0.00 0.00000000 0.00000000 0.000000e+00
## 3770  0.00 0.00000000 0.00000000 0.000000e+00
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## 3772  0.00 0.00000000 0.00000000 0.000000e+00
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## 3775  0.00 0.00000000 0.00000000 0.000000e+00
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## 3778  0.00 0.00000000 0.00000000 0.000000e+00
## 3779  0.00 0.00000000 0.00000000 0.000000e+00
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## 3782  0.00 0.00000000 0.00000000 0.000000e+00
## 3783  0.00 0.00000000 0.00000000 0.000000e+00
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## 3786  0.00 0.00000000 0.00000000 0.000000e+00
## 3787  0.00 0.00000000 0.00000000 0.000000e+00
## 3788  0.00 0.00000000 0.00000000 0.000000e+00
## 3789  0.00 0.00000000 0.00000000 0.000000e+00
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## 3791  0.00 0.00000000 0.00000000 0.000000e+00
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## 3794  0.00 0.00000000 0.00000000 0.000000e+00
## 3795  0.00 0.00000000 0.00000000 0.000000e+00
## 3796  0.00 0.00000000 0.00000000 0.000000e+00
## 3797  0.00 0.00000000 0.00000000 0.000000e+00
## 3798  0.00 0.00000000 0.00000000 0.000000e+00
## 3799  0.00 0.00000000 0.00000000 0.000000e+00
## 3800  0.00 0.00000000 0.00000000 0.000000e+00
## 3801  0.00 0.00000000 0.00000000 0.000000e+00
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## 3806  0.00 0.00000000 0.00000000 0.000000e+00
## 3807  0.00 0.00000000 0.00000000 0.000000e+00
## 3808  0.00 0.00000000 0.00000000 0.000000e+00
## 3809  0.00 0.00000000 0.00000000 0.000000e+00
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## 3812  0.00 0.00000000 0.00000000 0.000000e+00
## 3813  0.00 0.00000000 0.00000000 0.000000e+00
## 3814  0.00 0.00000000 0.00000000 0.000000e+00
## 3815  0.00 0.00000000 0.00000000 0.000000e+00
## 3816  0.00 0.00000000 0.00000000 0.000000e+00
## 3817  0.00 0.00000000 0.00000000 0.000000e+00
## 3818  0.00 0.00000000 0.00000000 0.000000e+00
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## 3824  0.00 0.00000000 0.00000000 0.000000e+00
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## 3827  0.00 0.00000000 0.00000000 0.000000e+00
## 3828  0.00 0.00000000 0.00000000 0.000000e+00
## 3829  0.00 0.00000000 0.00000000 0.000000e+00
## 3830  0.00 0.00000000 0.00000000 0.000000e+00
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## 3836  0.00 0.00000000 0.00000000 0.000000e+00
## 3837  0.00 0.00000000 0.00000000 0.000000e+00
## 3838  0.00 0.00000000 0.00000000 0.000000e+00
## 3839  0.00 0.00000000 0.00000000 0.000000e+00
## 3840  0.00 0.00000000 0.00000000 0.000000e+00
## 3841  0.00 0.00000000 0.00000000 0.000000e+00
## 3842  0.00 0.00000000 0.00000000 0.000000e+00
## 3843  0.00 0.00000000 0.00000000 0.000000e+00
## 3844  0.00 0.00000000 0.00000000 0.000000e+00
## 3845  0.00 0.00000000 0.00000000 0.000000e+00
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## 3849  0.00 0.00000000 0.00000000 0.000000e+00
## 3850  0.00 0.00000000 0.00000000 0.000000e+00
## 3851  0.00 0.00000000 0.00000000 0.000000e+00
## 3852  0.00 0.00000000 0.00000000 0.000000e+00
## 3853  0.00 0.00000000 0.00000000 0.000000e+00
## 3854  0.00 0.00000000 0.00000000 0.000000e+00
## 3855  0.00 0.00000000 0.00000000 0.000000e+00
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## 3857  0.00 0.00000000 0.00000000 0.000000e+00
## 3858  0.00 0.00000000 0.00000000 0.000000e+00
## 3859  0.00 0.00000000 0.00000000 0.000000e+00
## 3860  0.00 0.00000000 0.00000000 0.000000e+00
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## 3863  0.00 0.00000000 0.00000000 0.000000e+00
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## 3866  0.00 0.00000000 0.00000000 0.000000e+00
## 3867  0.00 0.00000000 0.00000000 0.000000e+00
## 3868  0.00 0.00000000 0.00000000 0.000000e+00
## 3869  0.00 0.00000000 0.00000000 0.000000e+00
## 3870  0.00 0.00000000 0.00000000 0.000000e+00
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## 3872  0.00 0.00000000 0.00000000 0.000000e+00
## 3873  0.00 0.00000000 0.00000000 0.000000e+00
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## 3877  0.00 0.00000000 0.00000000 0.000000e+00
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## 3879  0.00 0.00000000 0.00000000 0.000000e+00
## 3880  0.00 0.00000000 0.00000000 0.000000e+00
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## 3882  0.00 0.00000000 0.00000000 0.000000e+00
## 3883  0.00 0.00000000 0.00000000 0.000000e+00
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## 3886  0.00 0.00000000 0.00000000 0.000000e+00
## 3887  0.00 0.00000000 0.00000000 0.000000e+00
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## 3889  0.00 0.00000000 0.00000000 0.000000e+00
## 3890  0.00 0.00000000 0.00000000 0.000000e+00
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## 3892  0.00 0.00000000 0.00000000 0.000000e+00
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## 3894  0.00 0.00000000 0.00000000 0.000000e+00
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## 3897  0.00 0.00000000 0.00000000 0.000000e+00
## 3898  0.00 0.00000000 0.00000000 0.000000e+00
## 3899  0.00 0.00000000 0.00000000 0.000000e+00
## 3900  0.00 0.00000000 0.00000000 0.000000e+00
## 3901  0.00 0.00000000 0.00000000 0.000000e+00
## 3902  0.00 0.00000000 0.00000000 0.000000e+00
## 3903  0.00 0.00000000 0.00000000 0.000000e+00
## 3904  0.00 0.00000000 0.00000000 0.000000e+00
## 3905  0.00 0.00000000 0.00000000 0.000000e+00
## 3906  0.00 0.00000000 0.00000000 0.000000e+00
## 3907  0.00 0.00000000 0.00000000 0.000000e+00
## 3908  0.00 0.00000000 0.00000000 0.000000e+00
## 3909  0.00 0.00000000 0.00000000 0.000000e+00
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## 3910  0.00 0.00000000 0.00000000 0.000000e+00
## 3911  0.00 0.00000000 0.00000000 0.000000e+00
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## 3916  0.00 0.00000000 0.00000000 0.000000e+00
## 3917  0.00 0.00000000 0.00000000 0.000000e+00
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## 3919  0.00 0.00000000 0.00000000 0.000000e+00
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## 3947  0.00 0.00000000 0.00000000 0.000000e+00
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## 3949  0.00 0.00000000 0.00000000 0.000000e+00
## 3950  0.00 0.00000000 0.00000000 0.000000e+00
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## 3952  0.00 0.00000000 0.00000000 0.000000e+00
## 3953  0.00 0.00000000 0.00000000 0.000000e+00
## 3954  0.00 0.00000000 0.00000000 0.000000e+00
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## 3957  0.00 0.00000000 0.00000000 0.000000e+00
## 3958  0.00 0.00000000 0.00000000 0.000000e+00
## 3959  0.00 0.00000000 0.00000000 0.000000e+00
## 3960  0.00 0.00000000 0.00000000 0.000000e+00
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## 3962  0.00 0.00000000 0.00000000 0.000000e+00
## 3963  0.00 0.00000000 0.00000000 0.000000e+00
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## 3970  0.00 0.00000000 0.00000000 0.000000e+00
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## 3995  0.00 0.00000000 0.00000000 0.000000e+00
## 3996  0.00 0.00000000 0.00000000 0.000000e+00
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## 3998  0.00 0.00000000 0.00000000 0.000000e+00
## 3999  0.00 0.00000000 0.00000000 0.000000e+00
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## 4004  0.00 0.00000000 0.00000000 0.000000e+00
## 4005  0.00 0.00000000 0.00000000 0.000000e+00
## 4006  0.00 0.00000000 0.00000000 0.000000e+00
## 4007  0.00 0.00000000 0.00000000 0.000000e+00
## 4008  0.00 0.00000000 0.00000000 0.000000e+00
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## 4011  0.00 0.00000000 0.00000000 0.000000e+00
## 4012  0.00 0.00000000 0.00000000 0.000000e+00
## 4013  0.00 0.00000000 0.00000000 0.000000e+00
## 4014  0.00 0.00000000 0.00000000 0.000000e+00
## 4015  0.00 0.00000000 0.00000000 0.000000e+00
## 4016  0.00 0.00000000 0.00000000 0.000000e+00
## 4017  0.00 0.00000000 0.00000000 0.000000e+00
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## 4025  0.00 0.00000000 0.00000000 0.000000e+00
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## 4027  0.00 0.00000000 0.00000000 0.000000e+00
## 4028  0.00 0.00000000 0.00000000 0.000000e+00
## 4029  0.00 0.00000000 0.00000000 0.000000e+00
## 4030  0.00 0.00000000 0.00000000 0.000000e+00
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## 4033  0.00 0.00000000 0.00000000 0.000000e+00
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## 4035  0.00 0.00000000 0.00000000 0.000000e+00
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## 4037  0.00 0.00000000 0.00000000 0.000000e+00
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## 4039  0.00 0.00000000 0.00000000 0.000000e+00
## 4040  0.00 0.00000000 0.00000000 0.000000e+00
## 4041  0.00 0.00000000 0.00000000 0.000000e+00
## 4042  0.00 0.00000000 0.00000000 0.000000e+00
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## 4044  0.00 0.00000000 0.00000000 0.000000e+00
## 4045  0.00 0.00000000 0.00000000 0.000000e+00
## 4046  0.00 0.00000000 0.00000000 0.000000e+00
## 4047  0.00 0.00000000 0.00000000 0.000000e+00
## 4048  0.00 0.00000000 0.00000000 0.000000e+00
## 4049  0.00 0.00000000 0.00000000 0.000000e+00
## 4050  0.00 0.00000000 0.00000000 0.000000e+00
## 4051  0.00 0.00000000 0.00000000 0.000000e+00
## 4052  0.00 0.00000000 0.00000000 0.000000e+00
## 4053  0.00 0.00000000 0.00000000 0.000000e+00
## 4054  0.00 0.00000000 0.00000000 0.000000e+00
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## 4056  0.00 0.00000000 0.00000000 0.000000e+00
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## 4058  0.00 0.00000000 0.00000000 0.000000e+00
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## 4062  0.00 0.00000000 0.00000000 0.000000e+00
## 4063  0.00 0.00000000 0.00000000 0.000000e+00
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## 4066  0.00 0.00000000 0.00000000 0.000000e+00
## 4067  0.00 0.00000000 0.00000000 0.000000e+00
## 4068  0.00 0.00000000 0.00000000 0.000000e+00
## 4069  0.00 0.00000000 0.00000000 0.000000e+00
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## 4071  0.00 0.00000000 0.00000000 0.000000e+00
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## 4089  0.00 0.00000000 0.00000000 0.000000e+00
## 4090  0.00 0.00000000 0.00000000 0.000000e+00
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## 4094  0.00 0.00000000 0.00000000 0.000000e+00
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## 4437  0.00 0.00000000 0.00000000 0.000000e+00
## 4438  0.00 0.00000000 0.00000000 0.000000e+00
## 4439  0.00 0.00000000 0.00000000 0.000000e+00
## 4440  0.00 0.00000000 0.00000000 0.000000e+00
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## 4446  0.00 0.00000000 0.00000000 0.000000e+00
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## 4449  0.00 0.00000000 0.00000000 0.000000e+00
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## 4469  0.00 0.00000000 0.00000000 0.000000e+00
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## 4472  0.00 0.00000000 0.00000000 0.000000e+00
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## 4477  0.00 0.00000000 0.00000000 0.000000e+00
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## 4502  0.00 0.00000000 0.00000000 0.000000e+00
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## 4594  0.00 0.00000000 0.00000000 0.000000e+00
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## 4601  0.00 0.00000000 0.00000000 0.000000e+00
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## 4649  0.00 0.00000000 0.00000000 0.000000e+00
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## 4663  0.00 0.00000000 0.00000000 0.000000e+00
## 4664  0.00 0.00000000 0.00000000 0.000000e+00
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## 4673  0.00 0.00000000 0.00000000 0.000000e+00
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## 4763  0.00 0.00000000 0.00000000 0.000000e+00
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## 4768  0.00 0.00000000 0.00000000 0.000000e+00
## 4769  0.00 0.00000000 0.00000000 0.000000e+00
## 4770  0.00 0.00000000 0.00000000 0.000000e+00
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## 4794  0.00 0.00000000 0.00000000 0.000000e+00
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## 4812  0.00 0.00000000 0.00000000 0.000000e+00
## 4813  0.00 0.00000000 0.00000000 0.000000e+00
## 4814  0.00 0.00000000 0.00000000 0.000000e+00
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## 4822  0.00 0.00000000 0.00000000 0.000000e+00
## 4823  0.00 0.00000000 0.00000000 0.000000e+00
## 4824  0.00 0.00000000 0.00000000 0.000000e+00
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## 4826  0.00 0.00000000 0.00000000 0.000000e+00
## 4827  0.00 0.00000000 0.00000000 0.000000e+00
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## 4828  0.00 0.00000000 0.00000000 0.000000e+00
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## 4842  0.00 0.00000000 0.00000000 0.000000e+00
## 4843  0.00 0.00000000 0.00000000 0.000000e+00
## 4844  0.00 0.00000000 0.00000000 0.000000e+00
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## 4847  0.00 0.00000000 0.00000000 0.000000e+00
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## 4849  0.00 0.00000000 0.00000000 0.000000e+00
## 4850  0.00 0.00000000 0.00000000 0.000000e+00
## 4851  0.00 0.00000000 0.00000000 0.000000e+00
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## 4863  0.00 0.00000000 0.00000000 0.000000e+00
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## 4867  0.00 0.00000000 0.00000000 0.000000e+00
## 4868  0.00 0.00000000 0.00000000 0.000000e+00
## 4869  0.00 0.00000000 0.00000000 0.000000e+00
## 4870  0.00 0.00000000 0.00000000 0.000000e+00
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## 4872  0.00 0.00000000 0.00000000 0.000000e+00
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## 4874  0.00 0.00000000 0.00000000 0.000000e+00
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## 4876  0.00 0.00000000 0.00000000 0.000000e+00
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## 4897  0.00 0.00000000 0.00000000 0.000000e+00
## 4898  0.00 0.00000000 0.00000000 0.000000e+00
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## 4907  0.00 0.00000000 0.00000000 0.000000e+00
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## 4919  0.00 0.00000000 0.00000000 0.000000e+00
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## 4946  0.00 0.00000000 0.00000000 0.000000e+00
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## 4949  0.00 0.00000000 0.00000000 0.000000e+00
## 4950  0.00 0.00000000 0.00000000 0.000000e+00
## 4951  0.00 0.00000000 0.00000000 0.000000e+00
## 4952  0.00 0.00000000 0.00000000 0.000000e+00
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## 4954  0.00 0.00000000 0.00000000 0.000000e+00
## 4955  0.00 0.00000000 0.00000000 0.000000e+00
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## 4957  0.00 0.00000000 0.00000000 0.000000e+00
## 4958  0.00 0.00000000 0.00000000 0.000000e+00
## 4959  0.00 0.00000000 0.00000000 0.000000e+00
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## 4961  0.00 0.00000000 0.00000000 0.000000e+00
## 4962  0.00 0.00000000 0.00000000 0.000000e+00
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## 4974  0.00 0.00000000 0.00000000 0.000000e+00
## 4975  0.00 0.00000000 0.00000000 0.000000e+00
## 4976  0.00 0.00000000 0.00000000 0.000000e+00
## 4977  0.00 0.00000000 0.00000000 0.000000e+00
## 4978  0.00 0.00000000 0.00000000 0.000000e+00
## 4979  0.00 0.00000000 0.00000000 0.000000e+00
## 4980  0.00 0.00000000 0.00000000 0.000000e+00
## 4981  0.00 0.00000000 0.00000000 0.000000e+00
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## 4990  0.00 0.00000000 0.00000000 0.000000e+00
## 4991  0.00 0.00000000 0.00000000 0.000000e+00
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## 4997  0.00 0.00000000 0.00000000 0.000000e+00
## 4998  0.00 0.00000000 0.00000000 0.000000e+00
## 4999  0.00 0.00000000 0.00000000 0.000000e+00
## 5000  0.00 0.00000000 0.00000000 0.000000e+00
## 5001  0.00 0.00000000 0.00000000 0.000000e+00
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## 5004  0.00 0.00000000 0.00000000 0.000000e+00
## 5005  0.00 0.00000000 0.00000000 0.000000e+00
## 5006  0.00 0.00000000 0.00000000 0.000000e+00
## 5007  0.00 0.00000000 0.00000000 0.000000e+00
## 5008  0.00 0.00000000 0.00000000 0.000000e+00
## 5009  0.00 0.00000000 0.00000000 0.000000e+00
## 5010  0.00 0.00000000 0.00000000 0.000000e+00
## 5011  0.00 0.00000000 0.00000000 0.000000e+00
## 5012  0.00 0.00000000 0.00000000 0.000000e+00
## 5013  0.00 0.00000000 0.00000000 0.000000e+00
## 5014  0.00 0.00000000 0.00000000 0.000000e+00
## 5015  0.00 0.00000000 0.00000000 0.000000e+00
## 5016  0.00 0.00000000 0.00000000 0.000000e+00
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## 5018  0.00 0.00000000 0.00000000 0.000000e+00
## 5019  0.00 0.00000000 0.00000000 0.000000e+00
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## 5021  0.00 0.00000000 0.00000000 0.000000e+00
## 5022  0.00 0.00000000 0.00000000 0.000000e+00
## 5023  0.00 0.00000000 0.00000000 0.000000e+00
## 5024  0.00 0.00000000 0.00000000 0.000000e+00
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## 5026  0.00 0.00000000 0.00000000 0.000000e+00
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## 5028  0.00 0.00000000 0.00000000 0.000000e+00
## 5029  0.00 0.00000000 0.00000000 0.000000e+00
## 5030  0.00 0.00000000 0.00000000 0.000000e+00
## 5031  0.00 0.00000000 0.00000000 0.000000e+00
## 5032  0.00 0.00000000 0.00000000 0.000000e+00
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## 5034  0.00 0.00000000 0.00000000 0.000000e+00
## 5035  0.00 0.00000000 0.00000000 0.000000e+00
## 5036  0.00 0.00000000 0.00000000 0.000000e+00
## 5037  0.00 0.00000000 0.00000000 0.000000e+00
## 5038  0.00 0.00000000 0.00000000 0.000000e+00
## 5039  0.00 0.00000000 0.00000000 0.000000e+00
## 5040  0.00 0.00000000 0.00000000 0.000000e+00
## 5041  0.00 0.00000000 0.00000000 0.000000e+00
## 5042  0.00 0.00000000 0.00000000 0.000000e+00
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## 5044  0.00 0.00000000 0.00000000 0.000000e+00
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## 5049  0.00 0.00000000 0.00000000 0.000000e+00
## 5050  0.00 0.00000000 0.00000000 0.000000e+00
## 5051  0.00 0.00000000 0.00000000 0.000000e+00
## 5052  0.00 0.00000000 0.00000000 0.000000e+00
## 5053  0.00 0.00000000 0.00000000 0.000000e+00
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## 5059  0.00 0.00000000 0.00000000 0.000000e+00
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## 5062  0.00 0.00000000 0.00000000 0.000000e+00
## 5063  0.00 0.00000000 0.00000000 0.000000e+00
## 5064  0.00 0.00000000 0.00000000 0.000000e+00
## 5065  0.00 0.00000000 0.00000000 0.000000e+00
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## 5067  0.00 0.00000000 0.00000000 0.000000e+00
## 5068  0.00 0.00000000 0.00000000 0.000000e+00
## 5069  0.00 0.00000000 0.00000000 0.000000e+00
## 5070  0.00 0.00000000 0.00000000 0.000000e+00
## 5071  0.00 0.00000000 0.00000000 0.000000e+00
## 5072  0.00 0.00000000 0.00000000 0.000000e+00
## 5073  0.00 0.00000000 0.00000000 0.000000e+00
## 5074  0.00 0.00000000 0.00000000 0.000000e+00
## 5075  0.00 0.00000000 0.00000000 0.000000e+00
## 5076  0.00 0.00000000 0.00000000 0.000000e+00
## 5077  0.00 0.00000000 0.00000000 0.000000e+00
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## 5080  0.00 0.00000000 0.00000000 0.000000e+00
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## 5082  0.00 0.00000000 0.00000000 0.000000e+00
## 5083  0.00 0.00000000 0.00000000 0.000000e+00
## 5084  0.00 0.00000000 0.00000000 0.000000e+00
## 5085  0.00 0.00000000 0.00000000 0.000000e+00
## 5086  0.00 0.00000000 0.00000000 0.000000e+00
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## 5106  0.00 0.00000000 0.00000000 0.000000e+00
## 5107  0.00 0.00000000 0.00000000 0.000000e+00
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## 6753  0.00 0.00000000 0.00000000 0.000000e+00
## 6754  0.00 0.00000000 0.00000000 0.000000e+00
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## 6762  0.00 0.00000000 0.00000000 0.000000e+00
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## 6766  0.00 0.00000000 0.00000000 0.000000e+00
## 6767  0.00 0.00000000 0.00000000 0.000000e+00
## 6768  0.00 0.00000000 0.00000000 0.000000e+00
## 6769  0.00 0.00000000 0.00000000 0.000000e+00
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## 6771  0.00 0.00000000 0.00000000 0.000000e+00
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## 6785  0.00 0.00000000 0.00000000 0.000000e+00
## 6786  0.00 0.00000000 0.00000000 0.000000e+00
## 6787  0.00 0.00000000 0.00000000 0.000000e+00
## 6788  0.00 0.00000000 0.00000000 0.000000e+00
## 6789  0.00 0.00000000 0.00000000 0.000000e+00
## 6790  0.00 0.00000000 0.00000000 0.000000e+00
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## 6793  0.00 0.00000000 0.00000000 0.000000e+00
## 6794  0.00 0.00000000 0.00000000 0.000000e+00
## 6795  0.00 0.00000000 0.00000000 0.000000e+00
## 6796  0.00 0.00000000 0.00000000 0.000000e+00
## 6797  0.00 0.00000000 0.00000000 0.000000e+00
## 6798  0.00 0.00000000 0.00000000 0.000000e+00
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## 6805  0.00 0.00000000 0.00000000 0.000000e+00
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## 6814  0.00 0.00000000 0.00000000 0.000000e+00
## 6815  0.00 0.00000000 0.00000000 0.000000e+00
## 6816  0.00 0.00000000 0.00000000 0.000000e+00
## 6817  0.00 0.00000000 0.00000000 0.000000e+00
## 6818  0.00 0.00000000 0.00000000 0.000000e+00
## 6819  0.00 0.00000000 0.00000000 0.000000e+00
## 6820  0.00 0.00000000 0.00000000 0.000000e+00
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## 6833   0.00 0.00000000 0.00000000 0.000000e+00
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## 6838   0.00 0.00000000 0.00000000 0.000000e+00
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## 6868   0.00 0.00000000 0.00000000 0.000000e+00
## 6869   0.00 0.00000000 0.00000000 0.000000e+00
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## 6874   0.00 0.00000000 0.00000000 0.000000e+00
## 6875   0.00 0.00000000 0.00000000 0.000000e+00
## 6876   0.00 0.00000000 0.00000000 0.000000e+00
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## 6905  0.00 0.00000000 0.00000000 0.000000e+00
## 6906  0.00 0.00000000 0.00000000 0.000000e+00
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## 6908  0.00 0.00000000 0.00000000 0.000000e+00
## 6909  0.00 0.00000000 0.00000000 0.000000e+00
## 6910  0.00 0.00000000 0.00000000 0.000000e+00
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## 6921  0.00 0.00000000 0.00000000 0.000000e+00
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## 6941  0.00 0.00000000 0.00000000 0.000000e+00
## 6942  0.00 0.00000000 0.00000000 0.000000e+00
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## 6944  0.00 0.00000000 0.00000000 0.000000e+00
## 6945  0.00 0.00000000 0.00000000 0.000000e+00
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## 6958  0.00 0.00000000 0.00000000 0.000000e+00
## 6959  0.00 0.00000000 0.00000000 0.000000e+00
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## 6962  0.00 0.00000000 0.00000000 0.000000e+00
## 6963  0.00 0.00000000 0.00000000 0.000000e+00
## 6964  0.00 0.00000000 0.00000000 0.000000e+00
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## 6969  0.00 0.00000000 0.00000000 0.000000e+00
## 6970  0.00 0.00000000 0.00000000 0.000000e+00
## 6971  0.00 0.00000000 0.00000000 0.000000e+00
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## 6973  0.00 0.00000000 0.00000000 0.000000e+00
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## 6977  0.00 0.00000000 0.00000000 0.000000e+00
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## 6984  0.00 0.00000000 0.00000000 0.000000e+00
## 6985  0.00 0.00000000 0.00000000 0.000000e+00
## 6986  0.00 0.00000000 0.00000000 0.000000e+00
## 6987  0.00 0.00000000 0.00000000 0.000000e+00
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## 6988  0.00 0.00000000 0.00000000 0.000000e+00
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## 6994  0.00 0.00000000 0.00000000 0.000000e+00
## 6995  0.00 0.00000000 0.00000000 0.000000e+00
## 6996  0.00 0.00000000 0.00000000 0.000000e+00
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## 6998  0.00 0.00000000 0.00000000 0.000000e+00
## 6999  0.00 0.00000000 0.00000000 0.000000e+00
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## 7002  0.00 0.00000000 0.00000000 0.000000e+00
## 7003  0.00 0.00000000 0.00000000 0.000000e+00
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## 7017  0.00 0.00000000 0.00000000 0.000000e+00
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## 7023  0.00 0.00000000 0.00000000 0.000000e+00
## 7024  0.00 0.00000000 0.00000000 0.000000e+00
## 7025  0.00 0.00000000 0.00000000 0.000000e+00
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## 7027  0.00 0.00000000 0.00000000 0.000000e+00
## 7028  0.00 0.00000000 0.00000000 0.000000e+00
## 7029  0.00 0.00000000 0.00000000 0.000000e+00
## 7030  0.00 0.00000000 0.00000000 0.000000e+00
## 7031  0.00 0.00000000 0.00000000 0.000000e+00
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## 7038  0.00 0.00000000 0.00000000 0.000000e+00
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## 7041  0.00 0.00000000 0.00000000 0.000000e+00
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## 7072  0.00 0.00000000 0.00000000 0.000000e+00
## 7073  0.00 0.00000000 0.00000000 0.000000e+00
## 7074  0.00 0.00000000 0.00000000 0.000000e+00
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## 7082  0.00 0.00000000 0.00000000 0.000000e+00
## 7083  0.00 0.00000000 0.00000000 0.000000e+00
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## 7085  0.00 0.00000000 0.00000000 0.000000e+00
## 7086  0.00 0.00000000 0.00000000 0.000000e+00
## 7087  0.00 0.00000000 0.00000000 0.000000e+00
## 7088  0.00 0.00000000 0.00000000 0.000000e+00
## 7089  0.00 0.00000000 0.00000000 0.000000e+00
## 7090  0.00 0.00000000 0.00000000 0.000000e+00
## 7091  0.00 0.00000000 0.00000000 0.000000e+00
## 7092  0.00 0.00000000 0.00000000 0.000000e+00
## 7093  0.00 0.00000000 0.00000000 0.000000e+00
## 7094  0.00 0.00000000 0.00000000 0.000000e+00
## 7095  0.00 0.00000000 0.00000000 0.000000e+00
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## 7115  0.00 0.00000000 0.00000000 0.000000e+00
## 7116  0.00 0.00000000 0.00000000 0.000000e+00
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## 8118  0.00 0.00000000 0.00000000 0.000000e+00
## 8119  0.00 0.00000000 0.00000000 0.000000e+00
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## 8693  0.00 0.00000000 0.00000000 0.000000e+00
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## 8704  0.00 0.00000000 0.00000000 0.000000e+00
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## 8708  0.00 0.00000000 0.00000000 0.000000e+00
## 8709  0.00 0.00000000 0.00000000 0.000000e+00
## 8710  0.00 0.00000000 0.00000000 0.000000e+00
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## 8715  0.00 0.00000000 0.00000000 0.000000e+00
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## 8722  0.00 0.00000000 0.00000000 0.000000e+00
## 8723  0.00 0.00000000 0.00000000 0.000000e+00
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## 8874  0.00 0.00000000 0.00000000 0.000000e+00
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## 8877  0.00 0.00000000 0.00000000 0.000000e+00
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## 9848  0.00 0.00000000 0.00000000 0.000000e+00
## 9849  0.00 0.00000000 0.00000000 0.000000e+00
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## 9869  0.00 0.00000000 0.00000000 0.000000e+00
## 9870  0.00 0.00000000 0.00000000 0.000000e+00
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## 9872  0.00 0.00000000 0.00000000 0.000000e+00
## 9873  0.00 0.00000000 0.00000000 0.000000e+00
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## 9887  0.00 0.00000000 0.00000000 0.000000e+00
## 9888  0.00 0.00000000 0.00000000 0.000000e+00
## 9889  0.00 0.00000000 0.00000000 0.000000e+00
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## 9917  0.00 0.00000000 0.00000000 0.000000e+00
## 9918  0.00 0.00000000 0.00000000 0.000000e+00
## 9919  0.00 0.00000000 0.00000000 0.000000e+00
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## 9999  0.00 0.00000000 0.00000000 0.000000e+00
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## 19589 0.00 0.00000000 0.00000000 0.000000e+00
## 19590 0.00 0.00000000 0.00000000 0.000000e+00
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## 19752 0.00 0.00000000 0.00000000 0.000000e+00
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## 19758 0.00 0.00000000 0.00000000 0.000000e+00
## 19759 0.00 0.00000000 0.00000000 0.000000e+00
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## 19762 0.00 0.00000000 0.00000000 0.000000e+00
## 19763 0.00 0.00000000 0.00000000 0.000000e+00
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## 19765 0.00 0.00000000 0.00000000 0.000000e+00
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## 19769 0.00 0.00000000 0.00000000 0.000000e+00
## 19770 0.00 0.00000000 0.00000000 0.000000e+00
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## 19774 0.00 0.00000000 0.00000000 0.000000e+00
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## 19779 0.00 0.00000000 0.00000000 0.000000e+00
## 19780 0.00 0.00000000 0.00000000 0.000000e+00
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## 19782 0.00 0.00000000 0.00000000 0.000000e+00
## 19783 0.00 0.00000000 0.00000000 0.000000e+00
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## 19791 0.00 0.00000000 0.00000000 0.000000e+00
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## 19795 0.00 0.00000000 0.00000000 0.000000e+00
## 19796 0.00 0.00000000 0.00000000 0.000000e+00
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## 19798 0.00 0.00000000 0.00000000 0.000000e+00
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## 19802 0.00 0.00000000 0.00000000 0.000000e+00
## 19803 0.00 0.00000000 0.00000000 0.000000e+00
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## 24862 0.00 0.00000000 0.00000000 0.000000e+00
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## 24870 0.00 0.00000000 0.00000000 0.000000e+00
## 24871 0.00 0.00000000 0.00000000 0.000000e+00
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## 24999 0.00 0.00000000 0.00000000 0.000000e+00
##  [ reached 'max' / getOption("max.print") -- omitted 1975001 rows ]
```