

# Bacterioplankton response to salinity (aka 2015 CSI Dispersal Experiment)

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*Last updated on 03 December, 2017*

Project Description: Analysis of salinity and dispersal of saline aquatic communities on bacterial community structure and function.

## Setting up working directory, packages

## Loading data file

## nutrient plots - all data - supplemental

```
#design.env.full  
str(design.env.full)
```

```
## 'data.frame': 43 obs. of 15 variables:  
## $ Tank_Name : Factor w/ 43 levels "A1_2015-July25",...: 1 4 5 6 7 8 9 10 11 2 ...  
## $ Date : Factor w/ 1 level "26-Jul-15": 1 1 1 1 1 1 1 1 1 1 ...  
## $ Date2 : int 45 45 45 45 45 45 45 45 45 45 ...  
## $ Replicate : Factor w/ 4 levels "A","B","C","D": 1 1 1 1 1 1 1 1 1 1 ...  
## $ Number : int 1 2 3 4 5 6 7 8 9 10 ...  
## $ Salinity : int 13 0 0 0 5 5 9 9 13 13 ...  
## $ Dispersal : int 0 0 1 3 2 3 2 3 2 3 ...  
## $ Sample : Factor w/ 43 levels "CSI-221","CSI-222",...: 1 2 3 4 5 6 7 8 9 10 ...  
## $ NH4uM : num 0.73 0.75 0.99 1.09 1.77 1.59 1.73 1.41 1.04 1.18 ...  
## $ NO3NO2uM : num 0.53 0.53 0.54 0.53 0.53 0.53 0.53 0.54 0.53 0.53 ...  
## $ PO4uM : num 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.08 ...  
## $ Maple_dmass : num 0.8 2.34 2.16 2.66 2.19 2.04 1.28 1.39 1.07 2.23 ...  
## $ Spartina_dmass: num -0.08 2.03 1.69 2.7 1.56 1.82 1.14 0.47 0.83 1.66 ...  
## $ Phrag_dmass : num -0.09 6.45 6.3 8.25 5.03 5.01 5.2 4.01 0.79 5.48 ...  
## $ Cmin : num 0.19 110.67 64.06 46.72 15.1 ...
```

```
#ammonium
```

```
ammonium <- ggplot(design.env.full, aes(x=Salinity, y=NH4uM, color=as.factor(Dispersal))) + theme_bw()  
scale_color_manual(name="Dispersal", values=c("skyblue", "gray", "black", "purple"), labels = c("source or  
ggsave("../figures/ammonium.pdf", plot=last_plot(), device=NULL, path=NULL, scale=1, width=NA, height=NA)
```

```
## Saving 6.5 x 4.5 in image
```

```
## Warning: Removed 1 rows containing non-finite values (stat_summary).
```

```
#nitrate+nitrite
```

```
nitrate <- ggplot(design.env.full, aes(x=Salinity, y=NO3NO2uM, color=as.factor(Dispersal))) + theme_bw()  
scale_color_manual(name="Dispersal", values=c("skyblue", "gray", "black", "purple"), labels = c("source or
```

```

ggsave("../figures/nitrate.pdf", plot=last_plot(), device=NULL, path=NULL, scale=1, width=NA, height=NA)

## Saving 6.5 x 4.5 in image

## Warning: Removed 1 rows containing non-finite values (stat_summary).

#phosphate
phosphate <- ggplot(design.env.full, aes(x=Salinity, y=P04uM, color=as.factor(Dispersal))) + theme_bw()
scale_color_manual(name="Dispersal", values=c("skyblue", "gray", "black", "purple"), labels = c("source of
ggsave("../figures/phosphate.pdf", plot=last_plot(), device=NULL, path=NULL, scale=1, width=NA, height=NA)

## Saving 6.5 x 4.5 in image

## Warning: Removed 1 rows containing non-finite values (stat_summary).

source("../bin/multiplot.R")
jpeg("../figures/NutrientsAll.jpeg", width = 480, height = 480 * 1.75)
multiplot(ammonium, nitrate, phosphate, cols=1)

## Warning: Removed 1 rows containing non-finite values (stat_summary).

## Warning: Removed 1 rows containing non-finite values (stat_summary).

## Warning: Removed 1 rows containing non-finite values (stat_summary).

dev.off()

## pdf
## 2

```

## function plots - all data - supplemental

```

#design.env.full
str(design.env.full)

## 'data.frame':   43 obs. of  15 variables:
## $ Tank_Name      : Factor w/ 43 levels "A1_2015-July25",...: 1 4 5 6 7 8 9 10 11 2 ...
## $ Date           : Factor w/ 1 level "26-Jul-15": 1 1 1 1 1 1 1 1 1 1 ...
## $ Date2          : int   45 45 45 45 45 45 45 45 45 45 ...
## $ Replicate      : Factor w/ 4 levels "A","B","C","D": 1 1 1 1 1 1 1 1 1 1 ...
## $ Number         : int   1 2 3 4 5 6 7 8 9 10 ...
## $ Salinity       : int   13 0 0 0 5 5 9 9 13 13 ...
## $ Dispersal      : int   0 0 1 3 2 3 2 3 2 3 ...
## $ Sample         : Factor w/ 43 levels "CSI-221","CSI-222",...: 1 2 3 4 5 6 7 8 9 10 ...
## $ NH4uM          : num   0.73 0.75 0.99 1.09 1.77 1.59 1.73 1.41 1.04 1.18 ...
## $ NO3NO2uM       : num   0.53 0.53 0.54 0.53 0.53 0.53 0.53 0.54 0.53 0.53 ...
## $ P04uM          : num   0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.08 ...
## $ Maple_dmass    : num   0.8 2.34 2.16 2.66 2.19 2.04 1.28 1.39 1.07 2.23 ...
## $ Spartina_dmass : num  -0.08 2.03 1.69 2.7 1.56 1.82 1.14 0.47 0.83 1.66 ...
## $ Phrag_dmass    : num  -0.09 6.45 6.3 8.25 5.03 5.01 5.2 4.01 0.79 5.48 ...
## $ Cmin           : num   0.19 110.67 64.06 46.72 15.1 ...

#Cmin
Cmin<- ggplot(design.env.full, aes(x=Salinity, y=Cmin, color=as.factor(Dispersal))) + theme_bw() + them

```

```

scale_color_manual(name="Dispersal", values=c("skyblue","gray","black", "purple"), labels = c("source of dispersal", "local", "non-local", "unknown"))
ggsave("../figures/CminSourceAll.pdf", plot=last_plot(), device=NULL, path=NULL, scale=1, width=NA, height=NA)

## Saving 6.5 x 4.5 in image
#maple
maple <- ggplot(design.env.full, aes(x=Salinity, y=Maple_dmass, color=as.factor(Dispersal))) + theme_bw()
scale_color_manual(name="Dispersal", values=c("skyblue","gray","black", "purple"), labels = c("source of dispersal", "local", "non-local", "unknown"))
ggsave("../figures/mapleSourceAll.pdf", plot=last_plot(), device=NULL, path=NULL, scale=1, width=NA, height=NA)

## Saving 6.5 x 4.5 in image
#spartina
spartina <- ggplot(design.env.full, aes(x=Salinity, y=Spartina_dmass, color=as.factor(Dispersal))) + theme_bw()
scale_color_manual(name="Dispersal", values=c("skyblue","gray","black", "purple"), labels = c("source of dispersal", "local", "non-local", "unknown"))
ggsave("../figures/spartinaSourceAll.pdf", plot=last_plot(), device=NULL, path=NULL, scale=1, width=NA, height=NA)

## Saving 6.5 x 4.5 in image
## Warning: Removed 1 rows containing non-finite values (stat_summary).
#phragmites
phrag <- ggplot(design.env.full, aes(x=Salinity, y=Phrag_dmass, color=as.factor(Dispersal))) + theme_bw()
scale_color_manual(name="Dispersal", values=c("skyblue","gray","black", "purple"), labels = c("source of dispersal", "local", "non-local", "unknown"))
ggsave("../figures/phragSourceAll.pdf", plot=last_plot(), device=NULL, path=NULL, scale=1, width=NA, height=NA)

## Saving 6.5 x 4.5 in image
## Warning: Removed 2 rows containing non-finite values (stat_summary).
source("../bin/multiplot.R")
jpeg("../figures/CarbonFxnAll.jpeg", width = 480, height = 480 * 1.75)
multiplot(Cmin,maple,spartina,phrag, cols=1)

## Warning: Removed 1 rows containing non-finite values (stat_summary).
## Warning: Removed 2 rows containing non-finite values (stat_summary).
dev.off()

## pdf
## 2

```

manipulate data files for statistical analyses and graphing

## Venn Diagram

```

require("VennDiagram")

## Loading required package: VennDiagram
## Warning: package 'VennDiagram' was built under R version 3.2.5
## Loading required package: futile.logger

```

```

## Warning: package 'futile.logger' was built under R version 3.2.5
##
## Attaching package: 'VennDiagram'
## The following object is masked from 'package:ape':
##
##      rotate
require("Hmisc")
library("gridExtra")

## Warning: package 'gridExtra' was built under R version 3.2.5
##
## Attaching package: 'gridExtra'
## The following object is masked from 'package:Hmisc':
##
##      combine
## The following object is masked from 'package:dplyr':
##
##      combine
dim(design_final)

## [1] 126      8
dim(csi_pres_abs)

## [1]      126 13435
#head(design_final)
#head(csi_pres_abs)

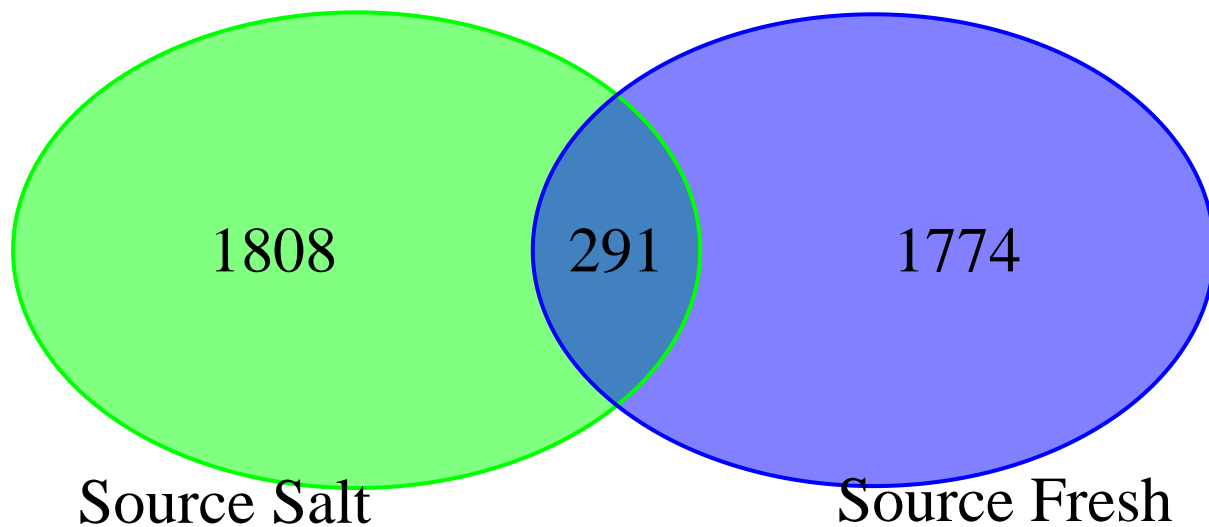
all.equal(rownames(design_final), rownames(csi_pres_abs))

## [1] TRUE
occupants <- function(x){names(which(colSums(x) > 1))}
l.overlap <- function(x){
  temp <- calculate.overlap(x)
  l.temp <- length(temp)
  temp2 <- temp[1: (l.temp - length(x) )]
  return(rev(lengths(temp2)))
}

salt <- occupants(csi_pres_abs[which(design_final$Number == 1), ])
fresh <- occupants(csi_pres_abs[which(design_final$Number == 2), ])

venn.plot <- draw.pairwise.venn(area1 = length(salt), area2 = length(fresh),
                               cross.area = length(intersect(salt, fresh)),
                               category = c("Source Salt", "Source Fresh"),
                               col = c("green", "blue"), fill = c("green", "blue"),
                               scaled = T, cex=2, cat.cex=2, cat.pos = c(200, 160))

```



```
#manually export PDF to figures folder
dev.off()
```

```
## null device
##          1
```

```
sal0 <- occupants(csi_pres_abs[which(design_final$Salinity == 0 &
                                     design_final$Number > 3), ])
sal5  <- occupants(csi_pres_abs[which(design_final$Salinity == 5),])
sal9  <- occupants(csi_pres_abs[which(design_final$Salinity == 9),])
sal13 <- occupants(csi_pres_abs[which(design_final$Salinity == 13),])
```

```
venn.plot2 <- draw.triple.venn(area1 = length(salt), area2 = length(sal0),
                               area3 = length(sal5), euler.d = TRUE,
                               n12 = length(Reduce(intersect, list(salt, sal0))),
                               n23 = length(Reduce(intersect, list(sal0, sal5))),
                               n13 = length(Reduce(intersect, list(salt, sal5))),
                               n123 = length(Reduce(intersect, list(salt, sal0, sal5))),
                               category = c("Source Salt", "Salinity 0", "Salinity 5"),
                               col = c("green", "darkblue", "orange"),
                               fill = c("green", "darkblue", "orange"),
                               scaled = T, cex=2, cat.cex=2, cat.pos = c(-40, 40, 180))
```

```
#manually export PDF to figures folder
dev.off()
```

```
## null device
##          1
```

```
venn.plot3 <- draw.triple.venn(area1 = length(salt), area2 = length(sal5),
                               area3 = length(sal9), euler.d = TRUE,
                               n12 = length(Reduce(intersect, list(salt, sal5))),
                               n23 = length(Reduce(intersect, list(sal5, sal9))),
                               n13 = length(Reduce(intersect, list(salt, sal9))),
                               n123 = length(Reduce(intersect, list(salt, sal5, sal9))),
                               category = c("Source Salt", "Salinity 5", "Salinity 9"),
                               col = c("green", "orange", "purple"), fill = c("green", "orange", "purple"),
                               scaled = T, cex=2, cat.cex=2, cat.pos = c(-40, 40, 180))
```

```
#manually export PDF to figures folder
```

```

dev.off()

## null device
##          1
venn.plot4 <- draw.triple.venn(area1 = length(salt), area2 = length(sal9),
  area3 = length(sal13), euler.d = TRUE,
  n12 = length(Reduce(intersect, list(salt, sal9))),
  n23 = length(Reduce(intersect, list(sal9, sal13))),
  n13 = length(Reduce(intersect, list(salt, sal13))),
  n123 = length(Reduce(intersect, list(salt, sal9, sal13))),
  category = c("Source Salt", "Salinity 9", "Salinity 13"),
  col = c("green", "purple", "darkgreen"), fill = c("green", "purple", "darkgreen"),
  scaled = T, cex=2, cat.cex=2, cat.pos = c(-30, 30, 50))
#manually export PDF to figures folder
dev.off()

## null device
##          1
venn.plot5 <- draw.triple.venn(area1 = length(fresh), area2 = length(sal0),
  area3 = length(sal5), euler.d = TRUE,
  n12 = length(Reduce(intersect, list(fresh, sal0))),
  n23 = length(Reduce(intersect, list(sal0, sal5))),
  n13 = length(Reduce(intersect, list(fresh, sal5))),
  n123 = length(Reduce(intersect, list(fresh, sal0, sal5))),
  category = c("Source Fresh", "Salinity 0", "Salinity 5"),
  col = c("blue", "darkblue", "orange"), fill = c("blue", "darkblue", "orange"),
  scaled = T, cex=2, cat.cex=2, cat.pos = c(-40, 40, 180))
#manually export PDF to figures folder
dev.off()

## null device
##          1
venn.plot5 <- draw.triple.venn(area1 = length(fresh), area2 = length(sal5),
  area3 = length(sal9), euler.d = TRUE,
  n12 = length(Reduce(intersect, list(fresh, sal5))),
  n23 = length(Reduce(intersect, list(sal5, sal9))),
  n13 = length(Reduce(intersect, list(fresh, sal9))),
  n123 = length(Reduce(intersect, list(fresh, sal5, sal9))),
  category = c("Source Fresh", "Salinity 5", "Salinity 9"),
  col = c("blue", "orange", "purple"), fill = c("blue", "orange", "purple"),
  scaled = T, cex=2, cat.cex=2, cat.pos = c(-40, 40, 180))
#manually export PDF to figures folder
dev.off()

## null device
##          1
venn.plot6 <- draw.triple.venn(area1 = length(fresh), area2 = length(sal9),
  area3 = length(sal13), euler.d = TRUE,
  n12 = length(Reduce(intersect, list(fresh, sal9))),
  n23 = length(Reduce(intersect, list(sal9, sal13))),
  n13 = length(Reduce(intersect, list(fresh, sal13))),
  n123 = length(Reduce(intersect, list(fresh, sal9, sal13))),
  category = c("Source Fresh", "Salinity 9", "Salinity 13"),

```

```
col = c("blue", "purple", "darkgreen"), fill = c("blue", "purple", "darkgreen"),
scaled = T, cex=2, cat.cex=2, cat.pos = c(-30, 30, 180))
#manually export PDF to figures folder
dev.off()
```

```
## null device
## 1
```

## Calculating Diversity Metrics

```
# Rarefy Abundances (min abundance is 13,240. We are sampling to 13,000)
min(rowSums(otu_final.ns))
```

```
## [1] 13240
```

```
otu.rarefy <- rrarefy(otu_final.ns, 13000)
```

```
# Calculate Shannon H' (called shannon) using full data set (WITH source tanks)
shannon <- diversity(otu.rarefy, "shannon")
```

```
# Species Richness
```

```
richness <- rowSums((otu.rarefy >= 1))
```

```
# Pielou's evenness
```

```
J <- shannon/log(specnumber(otu.rarefy[, -c(1:1)]))
```

```
# Dombined design, shannon, richness, evenness - no source tanks
```

```
csi_otu.div <- cbind(design.ns.final, shannon, richness, J)
```

```
# Rarefy Abundances with SOURCES (min abundance is 13,240. We are sampling to 13,000)
```

```
min(rowSums(otu_final))
```

```
## [1] 13240
```

```
otu.rarefy <- rrarefy(otu_final, 13000)
```

```
# Calculate Shannon H' (called shannon) using full data set (WITH source tanks)
```

```
shannon.source <- diversity(otu.rarefy, "shannon")
```

```
# Species Richness
```

```
richness.source <- rowSums((otu.rarefy >= 1))
```

```
# Pielou's evenness
```

```
J.source <- shannon.source/log(specnumber(otu.rarefy[, -c(1:1)]))
```

```
# Dombined design, shannon, richness, evenness - no source tanks
```

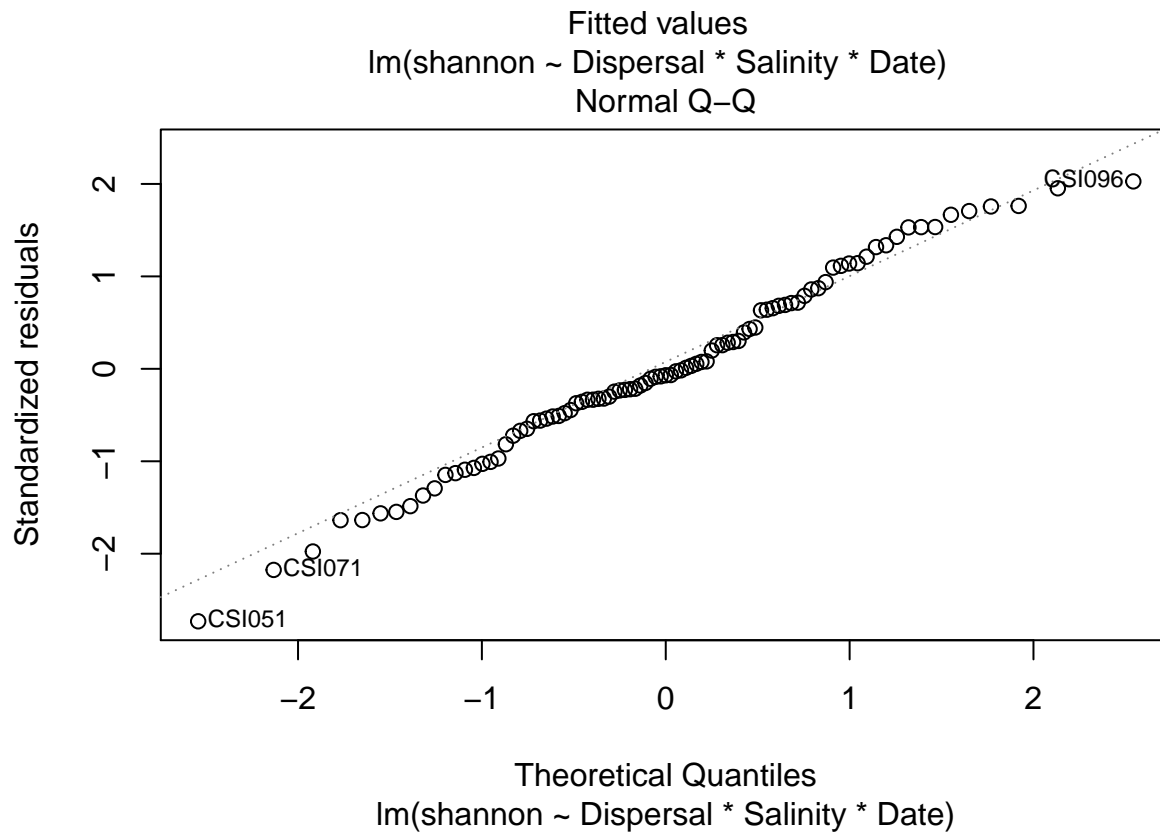
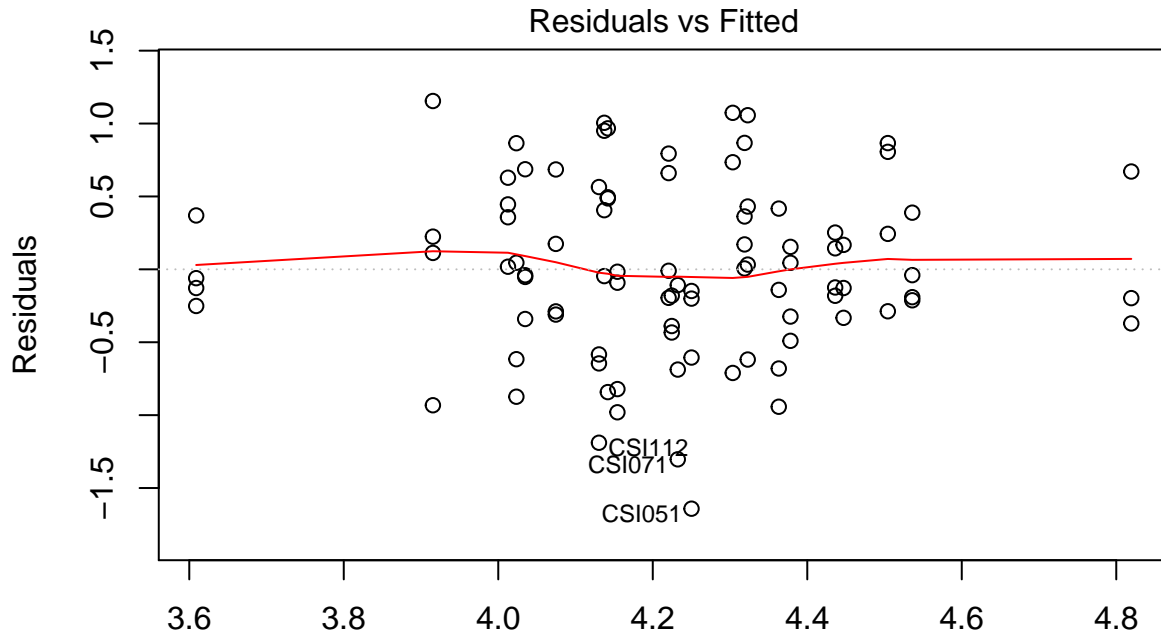
```
csi_otu.div.source <- cbind(design_final, shannon.source,
richness.source, J.source)
```

- (1) How does salinity/dispersal/date influence bacterial diversity? -Calculate Shannon's H' (diversity metric) - no source tanks -Run stat model diversity~dispersal|salinity|date

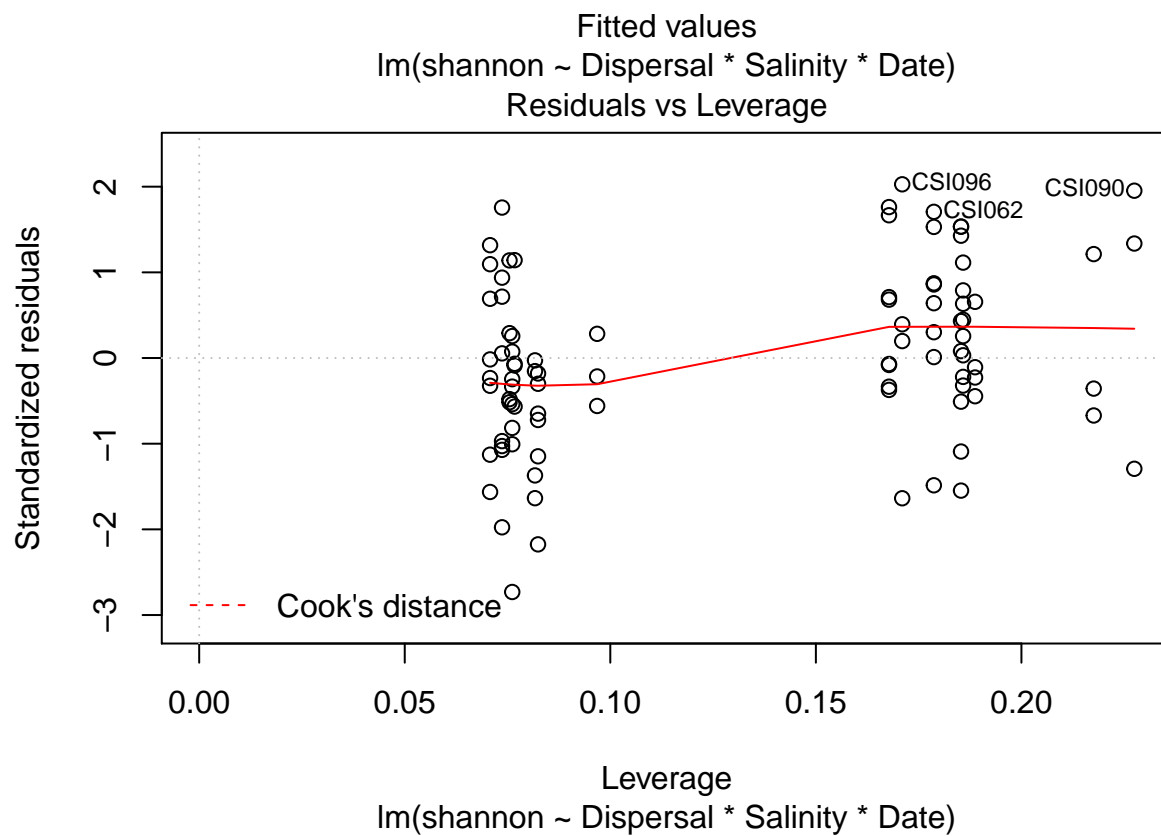
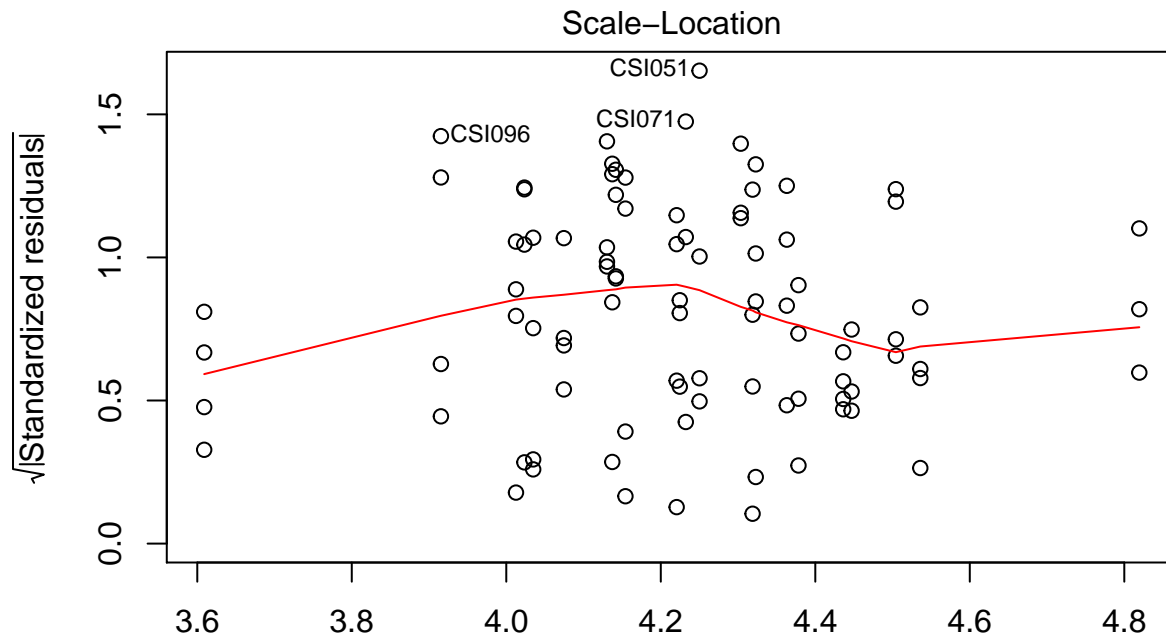
Supplemental Results: Use full data set (with source tanks) #Maybe just subset source tanks into a separate figure with no stats (just use as supplemental)

## Testing salinity x dispersal influence on DIVERSITY

```
# run full parametric statistical model  
shannon.lm <- lm(shannon ~ Dispersal*Salinity*Date, data = csi_otu.div)  
plot(shannon.lm)
```







```
shannon.lm
```

```
##
## Call:
## lm(formula = shannon ~ Dispersal * Salinity * Date, data = csi_otu.div)
##
## Coefficients:
```

```
##              (Intercept)                Dispersal
##              2.7799360                0.4145012
##              Salinity                Date6/29/15
##              0.2005030                0.6506388
##              Date7/26/15            Dispersal:Salinity
##              1.5198237                -0.0536938
##              Dispersal:Date6/29/15    Dispersal:Date7/26/15
##              -0.1235173                -0.3463214
##              Salinity:Date6/29/15    Salinity:Date7/26/15
##              -0.0701077                -0.2119351
## Dispersal:Salinity:Date6/29/15    Dispersal:Salinity:Date7/26/15
##              0.0002764                0.0480918
```

```
anova(shannon.lm)
```

```
## Analysis of Variance Table
```

```
##
```

```
## Response: shannon
```

```
##              Df  Sum Sq Mean Sq F value  Pr(>F)
## Dispersal      1  0.0100  0.01004   0.0257  0.87314
## Salinity       1  0.2725  0.27246   0.6966  0.40643
## Date          2  0.4790  0.23952   0.6124  0.54460
## Dispersal:Salinity  1  0.6298  0.62982   1.6104  0.20817
## Dispersal:Date    2  0.1130  0.05649   0.1444  0.86573
## Salinity:Date     2  3.1640  1.58198   4.0449  0.02126 *
## Dispersal:Salinity:Date  2  0.2757  0.13785   0.3525  0.70405
## Residuals      79 30.8973  0.39110
```

```
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
# run linear regression measured salinity used instead of 'factor' salinity
```

```
shannon.reg <- lm(shannon~Salinity_real, data = csi_otu.div)
```

```
summary(shannon.reg)
```

```
##
```

```
## Call:
```

```
## lm(formula = shannon ~ Salinity_real, data = csi_otu.div)
```

```
##
```

```
## Residuals:
```

```
##      Min       1Q   Median       3Q      Max
## -1.63840 -0.43184  0.02121  0.45532  1.23520
```

```
##
```

```
## Coefficients:
```

```
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   4.13672    0.11776  35.128  <2e-16 ***
## Salinity_real  0.01290    0.01448   0.891    0.375
```

```
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
```

```
## Residual standard error: 0.6318 on 89 degrees of freedom
```

```
## Multiple R-squared:  0.008837,    Adjusted R-squared:  -0.002299
```

```
## F-statistic: 0.7935 on 1 and 89 DF,  p-value: 0.3754
```

```
# run for source tanks only
```

```
csi.div.source1 <- subset(csi_otu.div.source, Number == "1")
```

```
csi.div.source2 <- subset(csi_otu.div.source, Number == "2")
```

csi.div.source1 #salt source

##	CSI_ID	Date	Date2	Replicate	Number	Tank_Name
##	CSI001	ECU_CSI_001	11-Jun-15	0	A	1 A1_2015-June11
##	CSI012	ECU_CSI_012	11-Jun-15	0	B	1 B1_2015-June11
##	CSI022	ECU_CSI_023	11-Jun-15	0	C	1 C1_2015-June11
##	CSI044	ECU_CSI_221	26-Jul-15	45	A	1 A1_2015-July25
##	CSI055	ECU_CSI_232	26-Jul-15	45	B	1 B1_2015-July25
##	CSI065	ECU_CSI_243	26-Jul-15	45	C	1 C1_2015-July25
##	CSI076	ECU_CSI_254	26-Jul-15	45	D	1 D1_2015-July25
##	CSI087	ECU_CSI_089	29-Jun-15	18	A	1 A1_2015-June29
##	CSI098	ECU_CSI_100	29-Jun-15	18	B	1 B1_2015-June29
##	CSI108	ECU_CSI_111	29-Jun-15	18	C	1 C1_2015-June29
##	CSI119	ECU_CSI_122	29-Jun-15	18	D	1 D1_2015-June29
##	Salinity	Dispersal	shannon.source	richness.source	J.source	
##	CSI001	13	Source13	4.875494	789	0.7310137
##	CSI012	13	Source13	4.771773	792	0.7150546
##	CSI022	13	Source13	4.662167	618	0.7256439
##	CSI044	13	Source13	2.327062	196	0.4413166
##	CSI055	13	Source13	4.315387	760	0.6506915
##	CSI065	13	Source13	4.137740	459	0.6753433
##	CSI076	13	Source13	4.822439	716	0.7337541
##	CSI087	13	Source13	4.877373	771	0.7338379
##	CSI098	13	Source13	4.941360	952	0.7205760
##	CSI108	13	Source13	4.082698	498	0.6575886
##	CSI119	13	Source13	4.403769	769	0.6628400

csi.div.source2 #fresh source

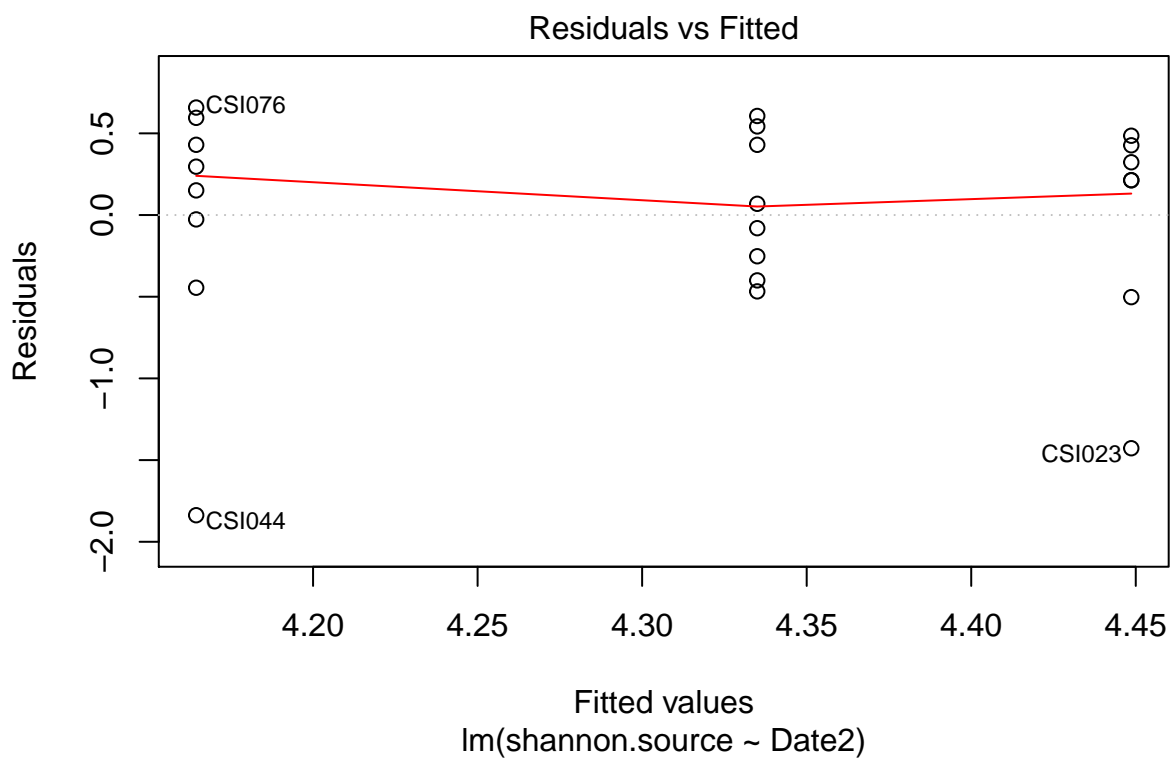
##	CSI_ID	Date	Date2	Replicate	Number	Tank_Name
##	CSI002	ECU_CSI_002	11-Jun-15	0	A	2 A2_2015-June11
##	CSI013	ECU_CSI_013	11-Jun-15	0	B	2 B2_2015-June11
##	CSI023	ECU_CSI_024	11-Jun-15	0	C	2 C2_2015-June11
##	CSI034	ECU_CSI_035	11-Jun-15	0	D	2 D2_2015-June11
##	CSI045	ECU_CSI_222	26-Jul-15	45	A	2 A2_2015-July25
##	CSI056	ECU_CSI_233	26-Jul-15	45	B	2 B2_2015-July25
##	CSI066	ECU_CSI_244	26-Jul-15	45	C	2 C2_2015-July25
##	CSI077	ECU_CSI_255	26-Jul-15	45	D	2 D2_2015-July25
##	CSI088	ECU_CSI_090	29-Jun-15	18	A	2 A2_2015-June29
##	CSI099	ECU_CSI_101	29-Jun-15	18	B	2 B2_2015-June29
##	CSI109	ECU_CSI_112	29-Jun-15	18	C	2 C2_2015-June29
##	CSI120	ECU_CSI_123	29-Jun-15	18	D	2 D2_2015-June29
##	Salinity	Dispersal	shannon.source	richness.source	J.source	
##	CSI002	0	Source0	3.946023	611	0.6152722
##	CSI013	0	Source0	4.661276	790	0.6987617
##	CSI023	0	Source0	3.021193	307	0.5278498
##	CSI034	0	Source0	4.934174	951	0.7196385
##	CSI045	0	Source0	3.719614	526	0.5936849
##	CSI056	0	Source0	4.594477	676	0.7050861
##	CSI066	0	Source0	4.460640	579	0.7014055
##	CSI077	0	Source0	4.759501	679	0.7299154
##	CSI088	0	Source0	3.867692	557	0.6117284
##	CSI099	0	Source0	4.764866	759	0.7186086
##	CSI109	0	Source0	4.254472	638	0.6589165
##	CSI120	0	Source0	3.934938	464	0.6411068

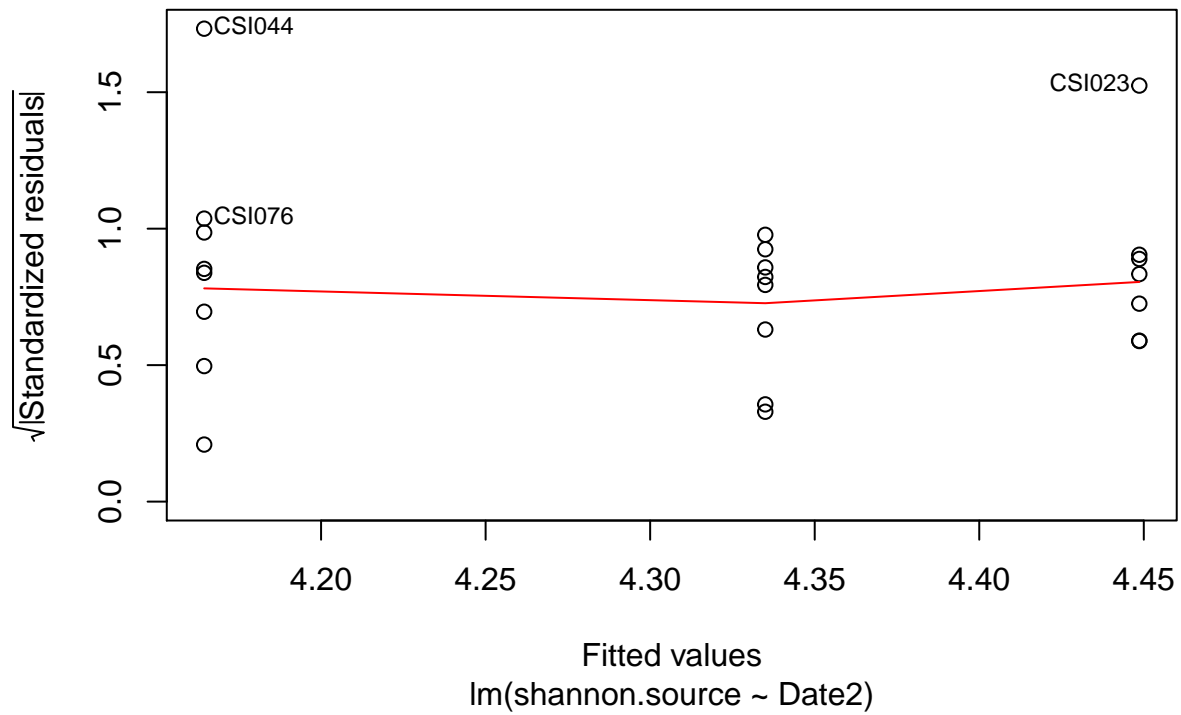
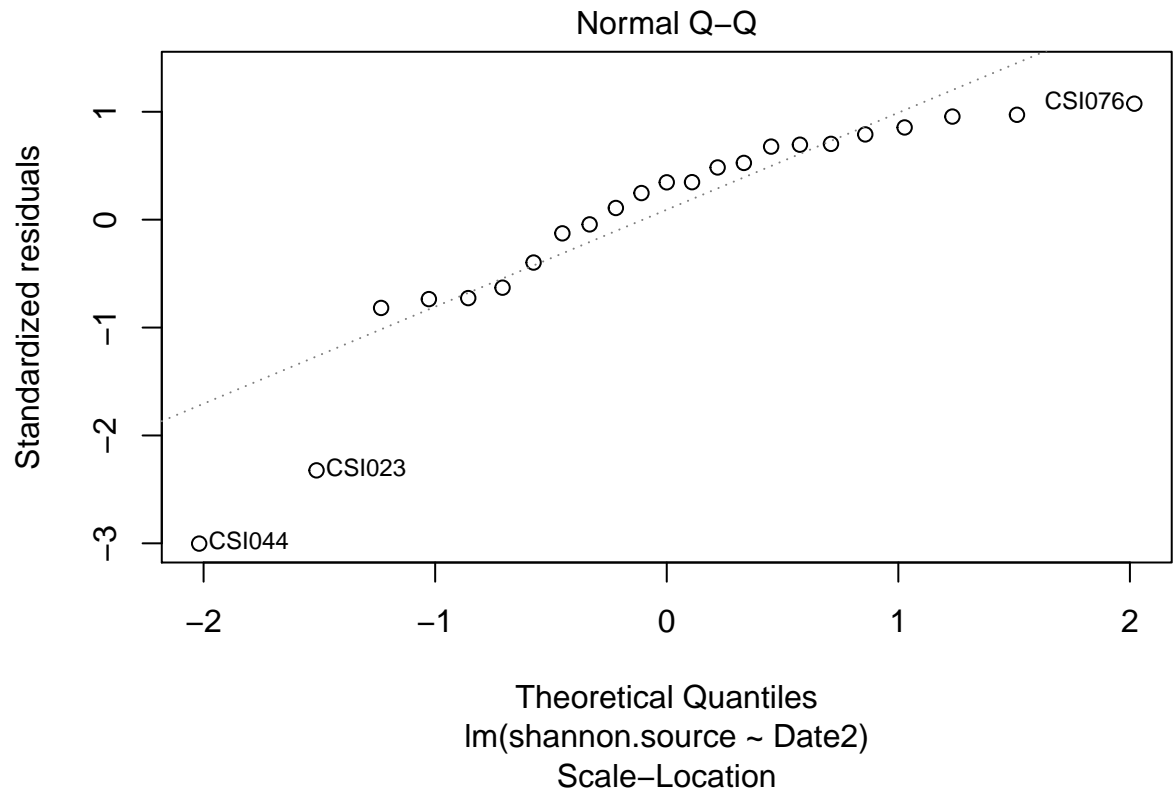
```
csi.div.source <- rbind(csi.div.source1,csi.div.source2)
dim(csi.div.source)
```

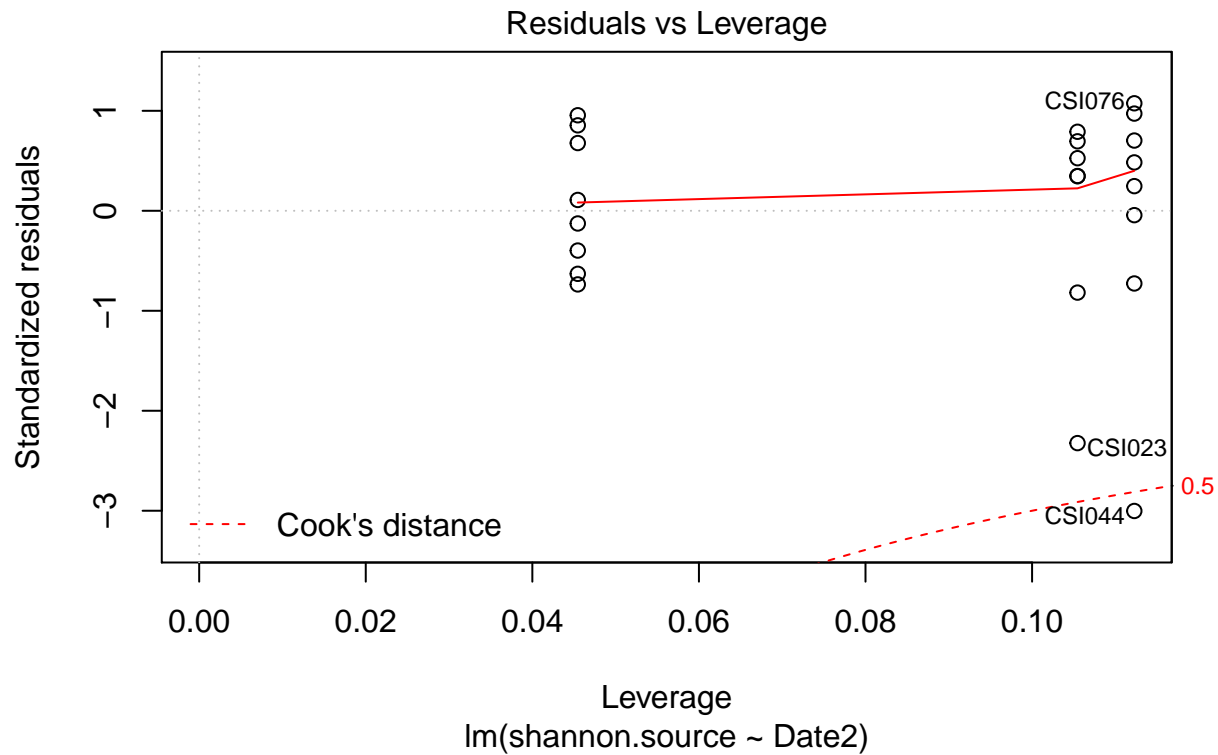
```
## [1] 23 11
```

```
Number1 <- as.factor(csi.div.source$Number)
```

```
shannon.lm.source <- lm(shannon.source ~ Date2, data = csi.div.source)
plot(shannon.lm.source)
```







```
summary(shannon.lm.source)
```

```
##
## Call:
## lm(formula = shannon.source ~ Date2, data = csi.div.source)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.8374 -0.3262  0.2126  0.4299  0.6580
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  4.448645   0.210936  21.090 1.29e-15 ***
## Date2       -0.006315   0.007380  -0.856   0.402
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.6496 on 21 degrees of freedom
## Multiple R-squared:  0.0337, Adjusted R-squared:  -0.01232
## F-statistic: 0.7323 on 1 and 21 DF,  p-value: 0.4018
```

```
shannon.lm.source
```

```
##
## Call:
## lm(formula = shannon.source ~ Date2, data = csi.div.source)
##
## Coefficients:
## (Intercept)      Date2
##    4.448645   -0.006315
```

```
anova(shannon.lm.source)
```

```
## Analysis of Variance Table
```

```
##
```

```
## Response: shannon.source
```

```
##           Df Sum Sq Mean Sq F value Pr(>F)
```

```
## Date2      1  0.3090  0.30896   0.7323  0.4018
```

```
## Residuals 21  8.8604  0.42192
```

```
date_1 <- as.factor(design.ns.final$Date2)
```

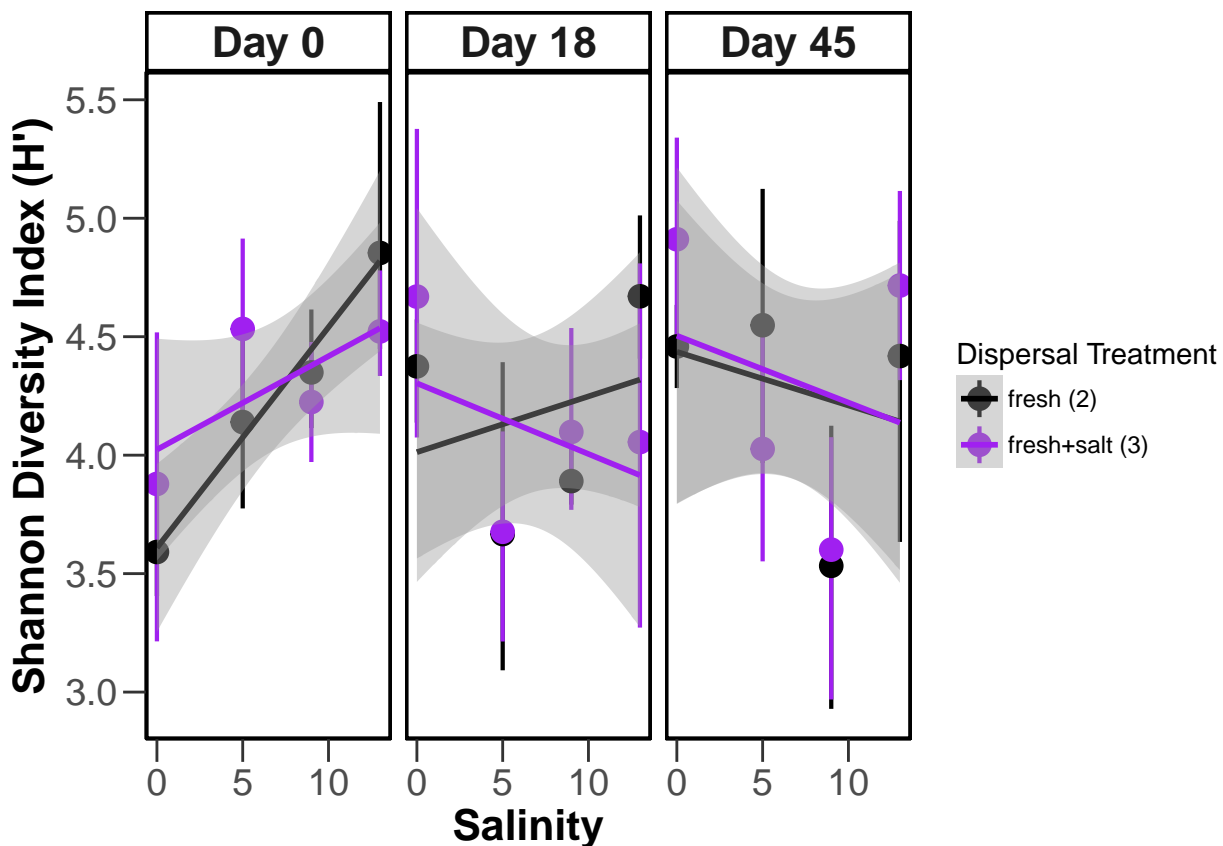
```
labels <- c("0"="Day 0", "18"="Day 18", "45"="Day 45")
```

```
# Graphing Shannon Diversity - Treatment Salinity NO SOURCE
```

```
p <- ggplot(csi_otu.div, aes(x=Salinity, y=shannon, color=as.factor(Dispersal)))+ scale_color_manual(nam
```

```
p1=p+geom_smooth(method="lm")+facet_wrap(~Date2)+facet_grid(. ~ Date2, labeller=labeler(Date2 = labels
```

```
p1 + theme_bw() + theme(panel.grid.major = element_blank(), panel.grid.minor = element_blank(), axis.li
```



```
ggsave("../figures/shannon.pdf", plot=last_plot(), device=NULL, path=NULL, scale=1, width=NA, height=NA)
```

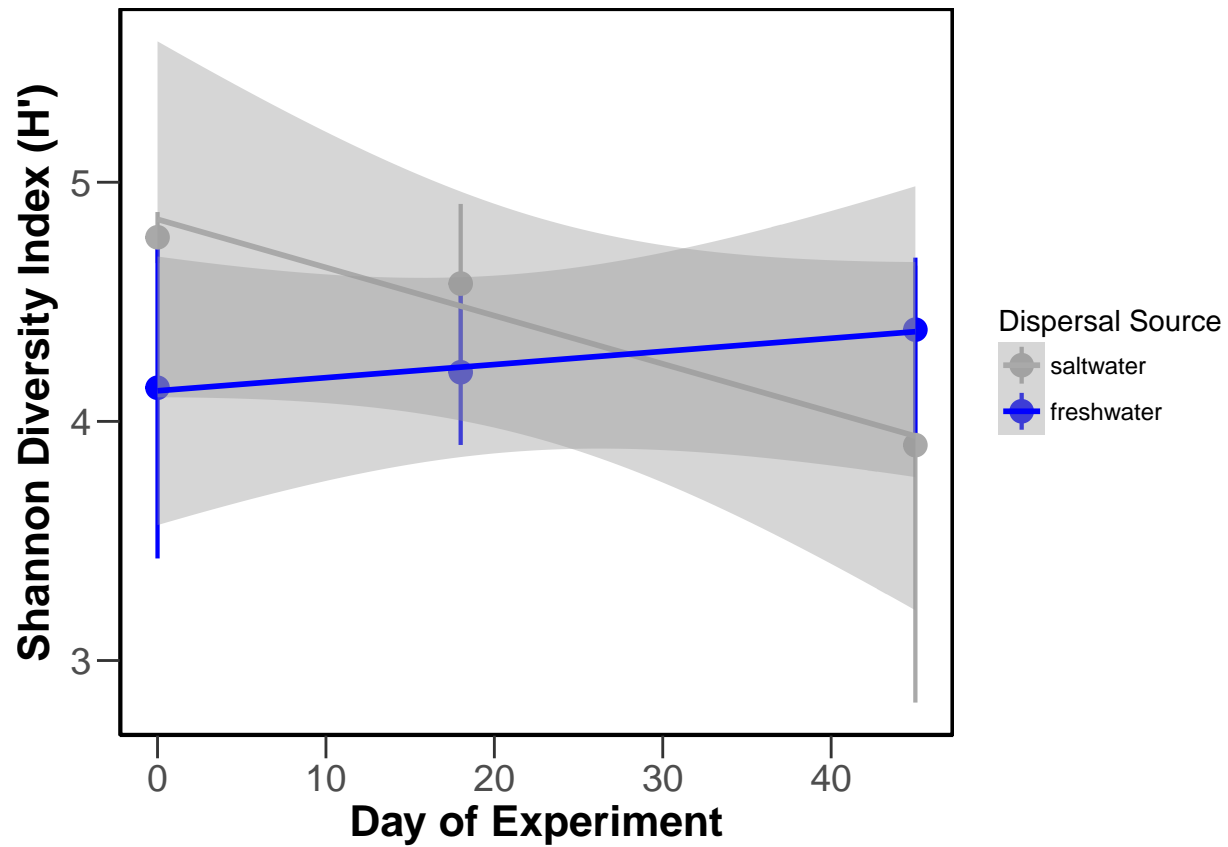
```
## Saving 6.5 x 4.5 in image
```

```
# Graphing Shannon Diversity - Treatment Salinity SOURCE ONLY
```

```
p <- ggplot(csi.div.source, aes(x=Date2, y=shannon.source, color=as.factor(Number1)))+ scale_color_manu
```

```
p1=p+geom_smooth(method="lm")
```

```
p1 + theme_bw() + theme(panel.grid.major = element_blank(), panel.grid.minor = element_blank(), axis.li
```



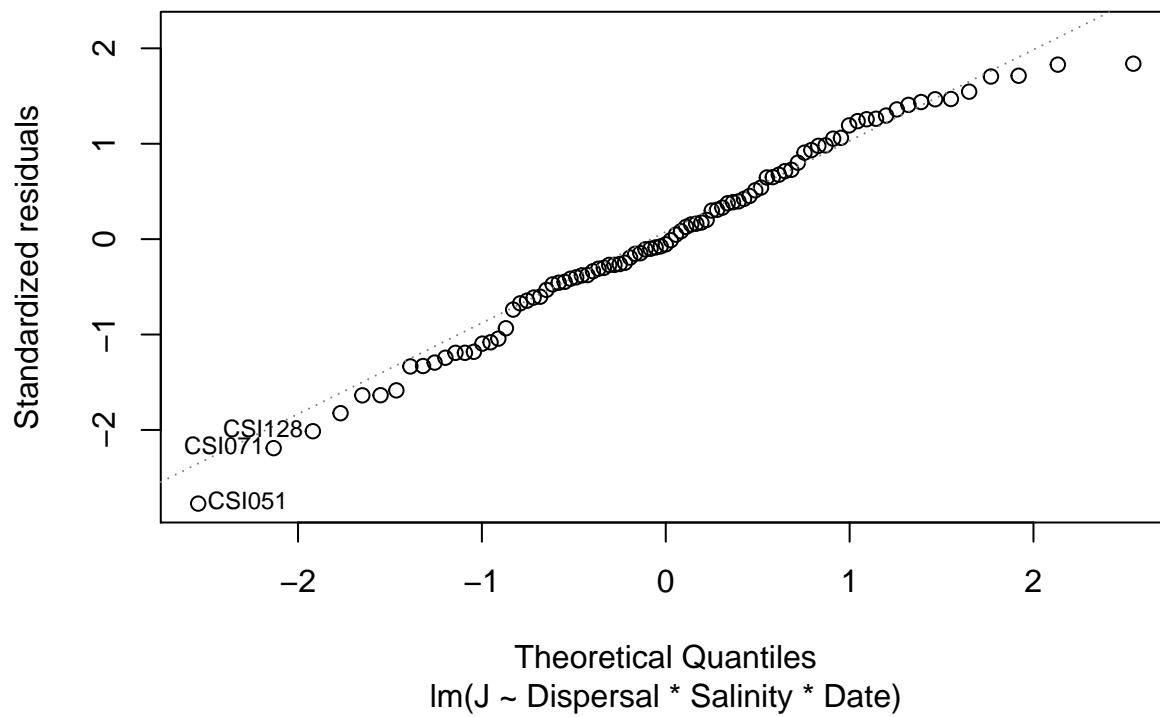
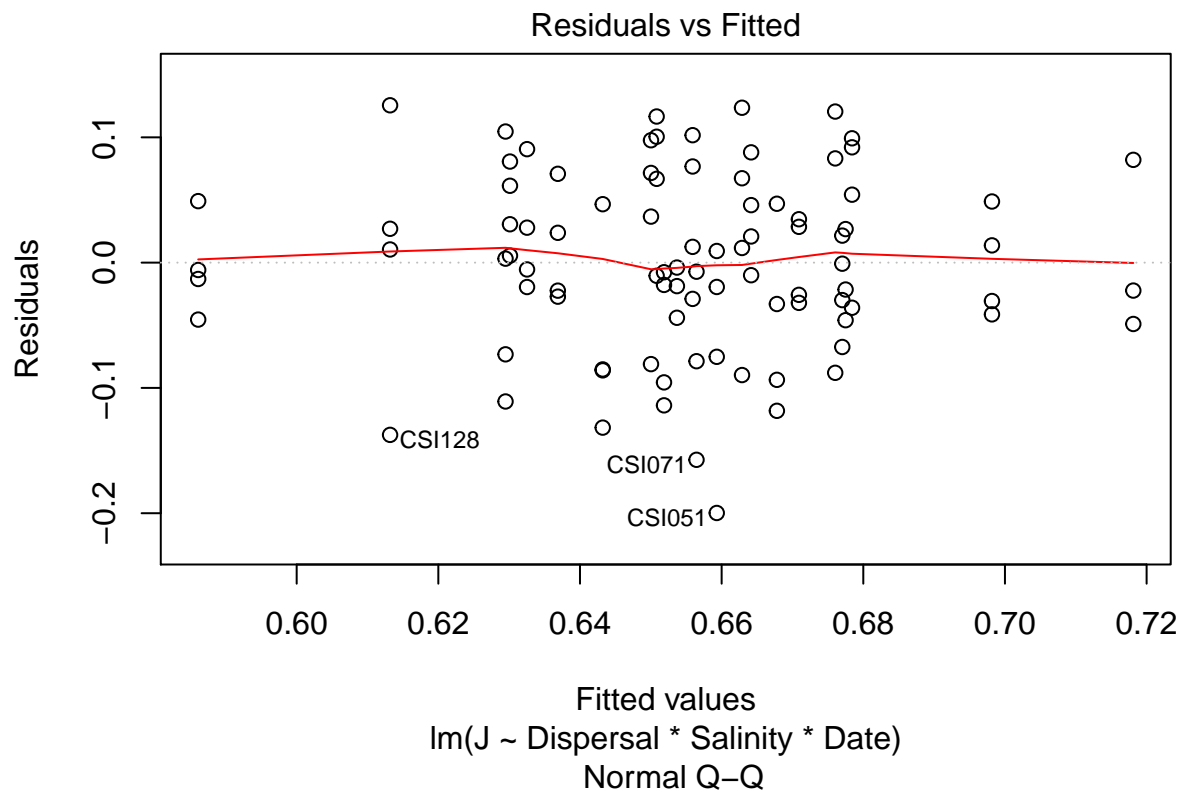
```
ggsave("../figures/shannon.source.pdf", plot=last_plot(), device=NULL, path=NULL, scale=1, width=NA, height=NA)
```

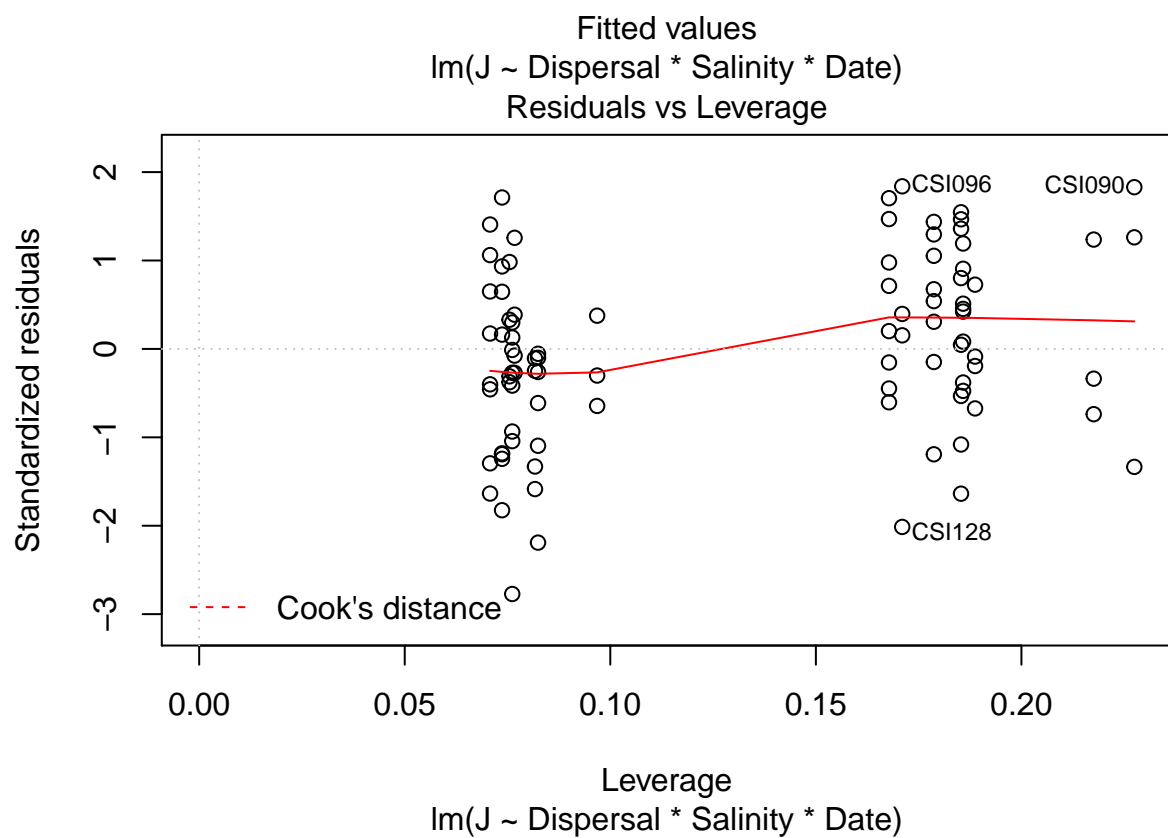
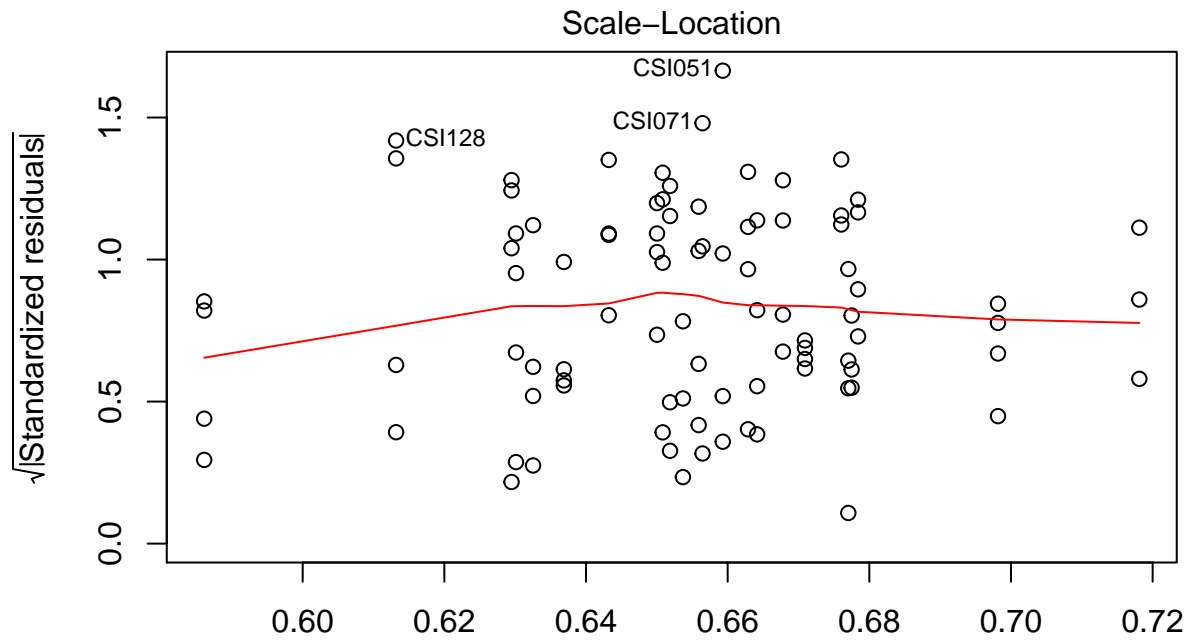
```
## Saving 6.5 x 4.5 in image
```

(2) How does salinity/dispersal/date influence bacterial evenness?

```
# run full parametric statistical model
J.lm <- lm(J ~ Dispersal*Salinity*Date, data = csi_otu.div)
plot(J.lm)
```







```
anova(J.lm)
```

```
## Analysis of Variance Table
```

```
##
```

```
## Response: J
```

```
##
```

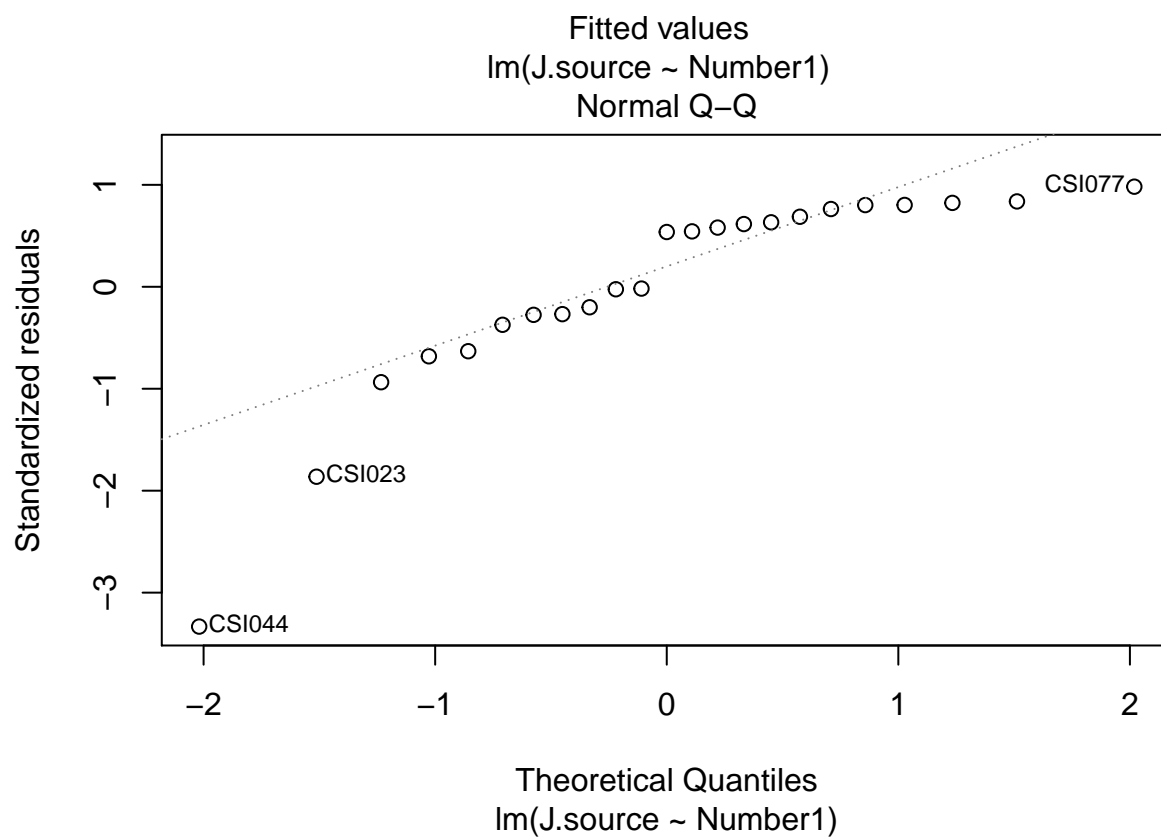
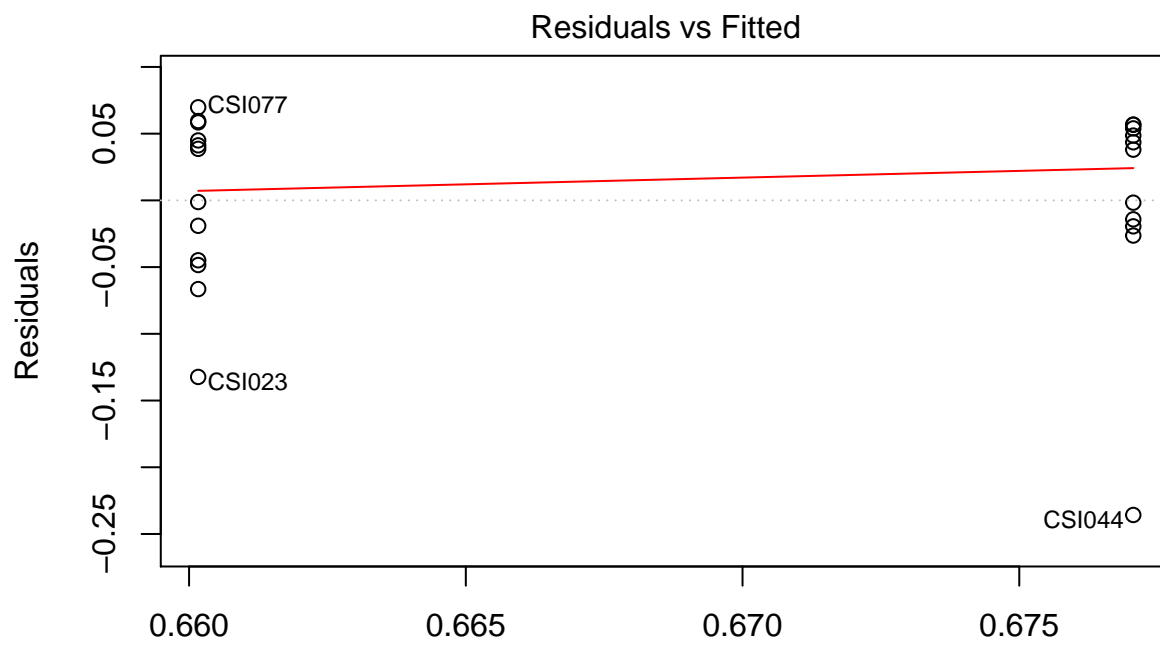
```
      Df Sum Sq Mean Sq F value Pr(>F)
```

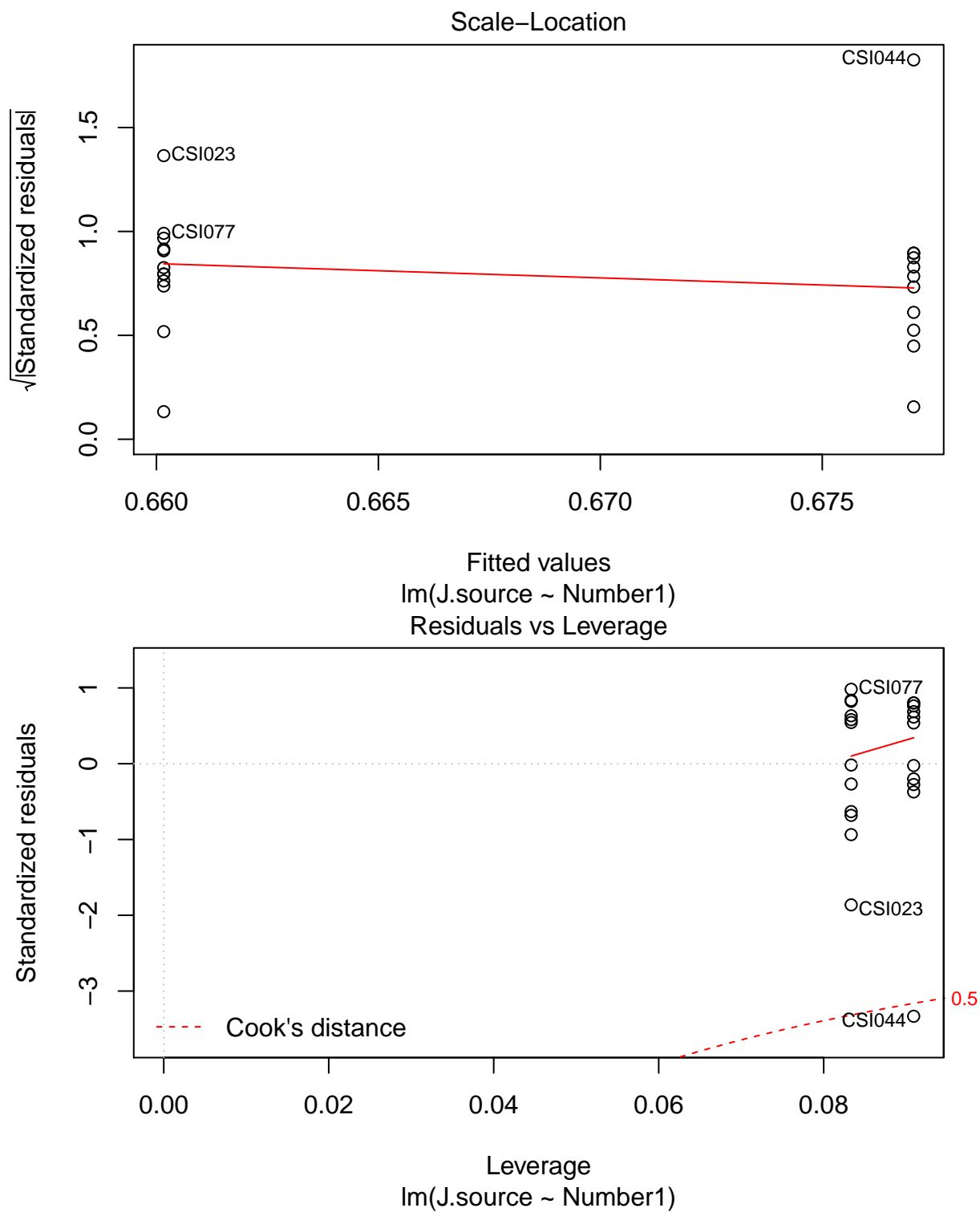
```
## Dispersal          1 0.00057 0.0005699 0.1013 0.75107
## Salinity           1 0.00473 0.0047295 0.8410 0.36190
## Date              2 0.00543 0.0027159 0.4830 0.61876
## Dispersal:Salinity 1 0.00800 0.0080004 1.4227 0.23653
## Dispersal:Date     2 0.00167 0.0008328 0.1481 0.86259
## Salinity:Date      2 0.03910 0.0195481 3.4761 0.03574 *
## Dispersal:Salinity:Date 2 0.00439 0.0021956 0.3904 0.67806
## Residuals          79 0.44426 0.0056235
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

# run linear regression measured salinity used instead of 'factor' salinity
J.reg <- lm(J~Salinity_real, data = csi_otu.div)
summary(J.reg)

##
## Call:
## lm(formula = J ~ Salinity_real, data = csi_otu.div)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.198191 -0.044850 -0.003352  0.056022  0.152206
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.643754   0.014014  45.937  <2e-16 ***
## Salinity_real 0.001633   0.001723   0.947   0.346
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.07518 on 89 degrees of freedom
## Multiple R-squared:  0.00998,    Adjusted R-squared:  -0.001143
## F-statistic: 0.8972 on 1 and 89 DF,  p-value: 0.3461

# run for source tanks only
J.lm.source <- lm(J.source ~ Number1, data = csi.div.source)
plot(J.lm.source)
```





```
summary(J.lm.source)
```

```
##
## Call:
## lm(formula = J.source ~ Number1, data = csi.div.source)
##
```

```
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.23574 -0.02292  0.03800  0.05127  0.06975
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.67706    0.02237  30.268  <2e-16 ***
## Number12     -0.01690    0.03097  -0.546    0.591
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.07419 on 21 degrees of freedom
## Multiple R-squared:  0.01398,    Adjusted R-squared:  -0.03298
## F-statistic: 0.2977 on 1 and 21 DF,  p-value: 0.5911
```

```
anova(J.lm.source)
```

```
## Analysis of Variance Table
```

```
##
```

```
## Response: J.source
```

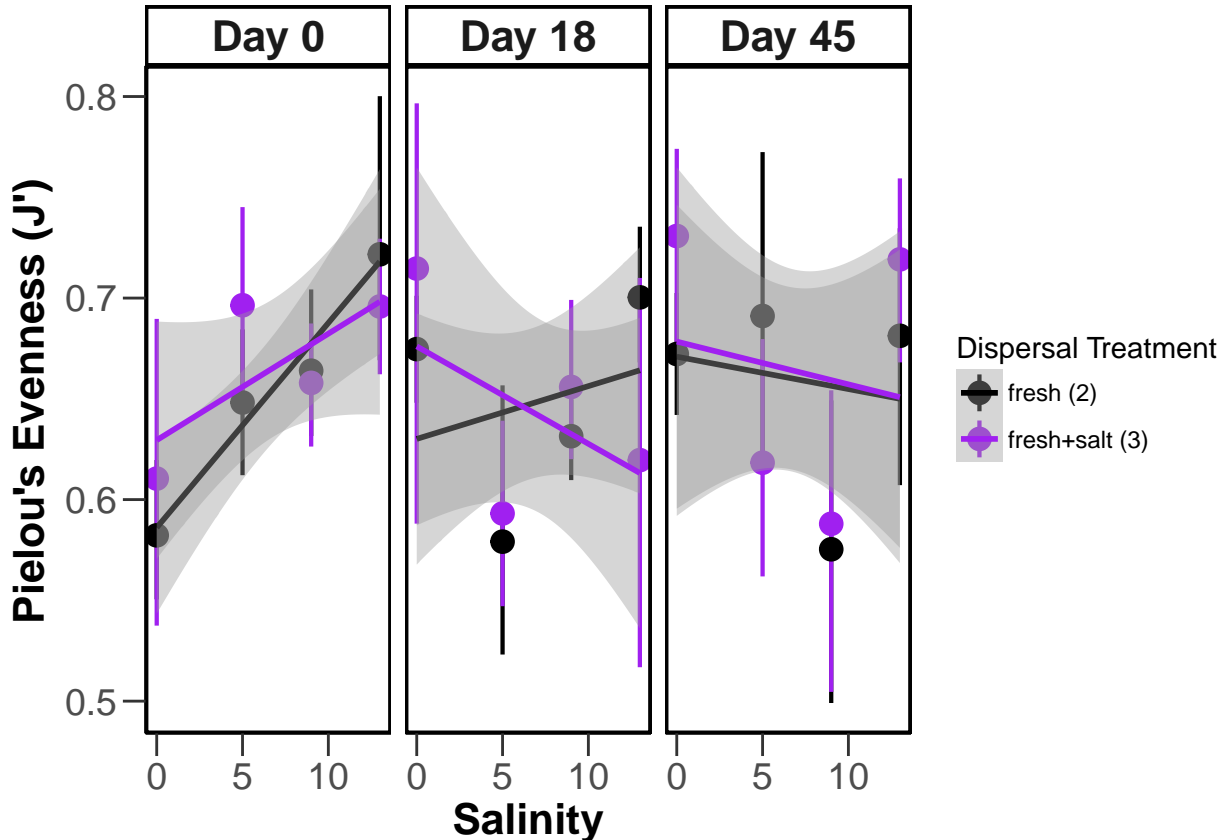
```
##           Df    Sum Sq   Mean Sq F value Pr(>F)
```

```
## Number1      1 0.001638 0.0016383  0.2977 0.5911
```

```
## Residuals   21 0.115581 0.0055038
```

```
# Graphing Pielous J - Treatment Salinity
```

```
p <- ggplot(csi_otu.div, aes(x=Salinity, y=J, color=as.factor(Dispersal))) + scale_color_manual(name="Dispersal Treatment", values=c("black", "purple"))
p1=p+geom_smooth(method="lm")+facet_wrap(~Date2)+facet_grid(. ~ Date2, labeller=labeler(Date2 = labels.Date2))
p1 + theme_bw() + theme(panel.grid.major = element_blank(), panel.grid.minor = element_blank(), axis.lin
```



```
ggsave("../figures/pielousj.pdf", plot=last_plot(), device=NULL, path=NULL, scale=1, width=NA, height=NA)
```

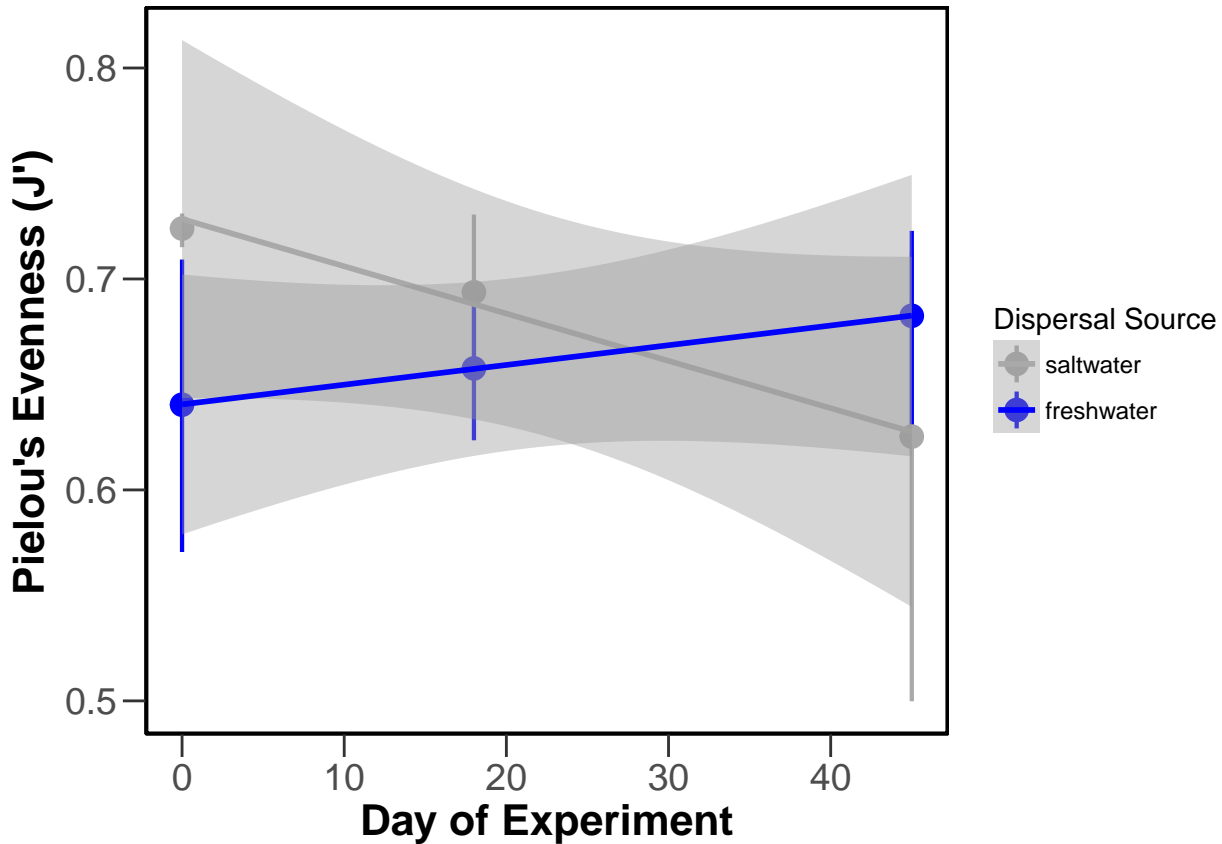
```
## Saving 6.5 x 4.5 in image
```

```
# Graphing Pielous J - Treatment Salinity SOURCE ONLY
```

```
p <- ggplot(csi.div.source, aes(x=Date2, y=J.source, color=as.factor(Number1)))+ scale_color_manual(name="Dispersal Source", values=c("saltwater", "freshwater"))
```

```
p1=p+geom_smooth(method="lm")
```

```
p1 + theme_bw() + theme(panel.grid.major = element_blank(), panel.grid.minor = element_blank(), axis.limits = c(0, 45))
```



```
ggsave("../figures/pielousj.source.pdf", plot=last_plot(), device=NULL, path=NULL, scale=1, width=NA, height=NA)
```

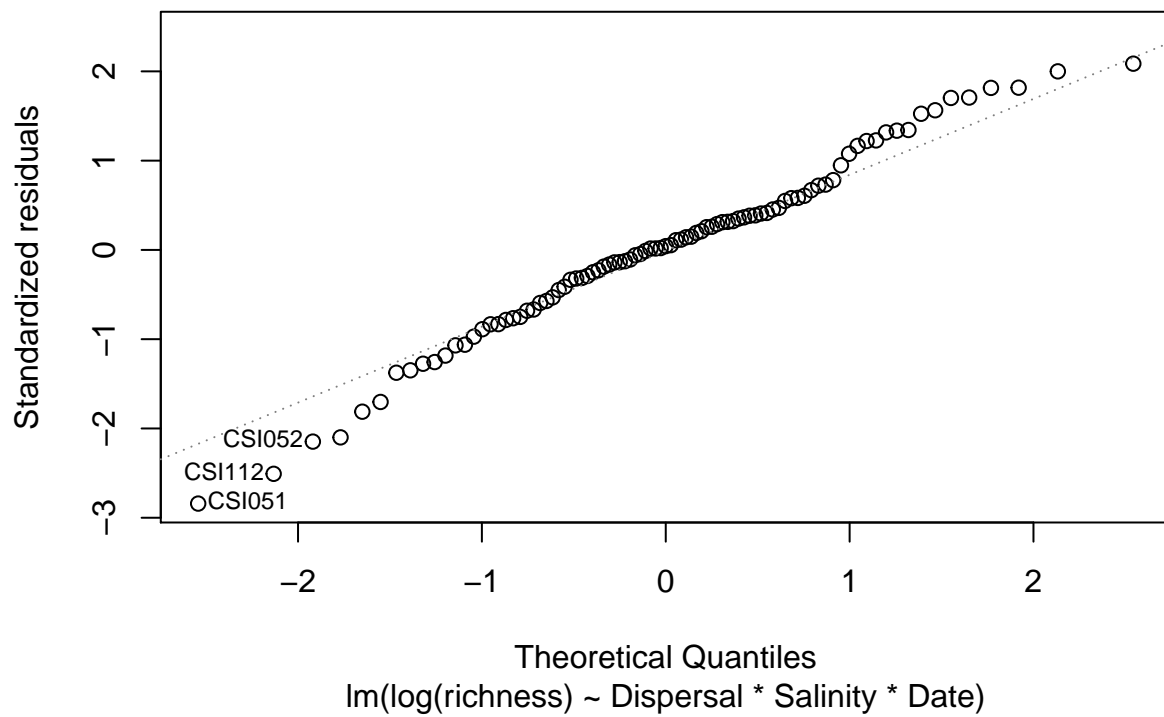
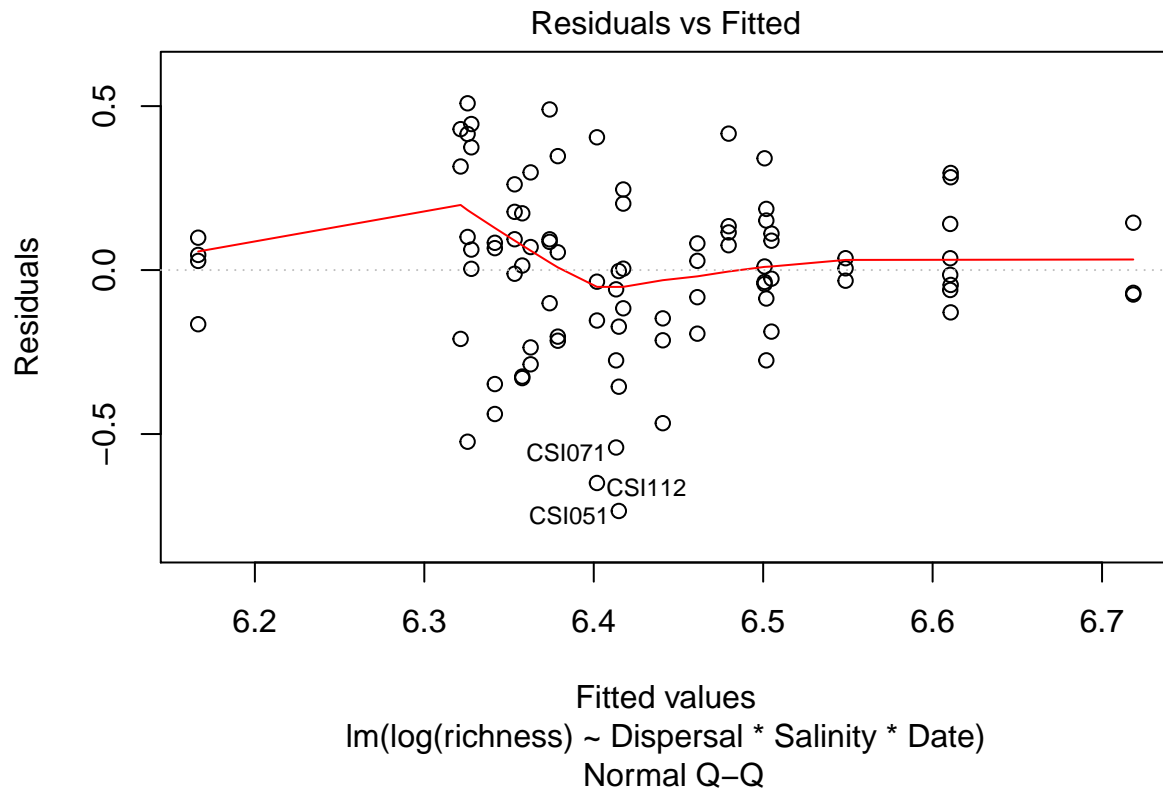
```
## Saving 6.5 x 4.5 in image
```

(3) How does salinity/dispersal/date influence bacterial richness?

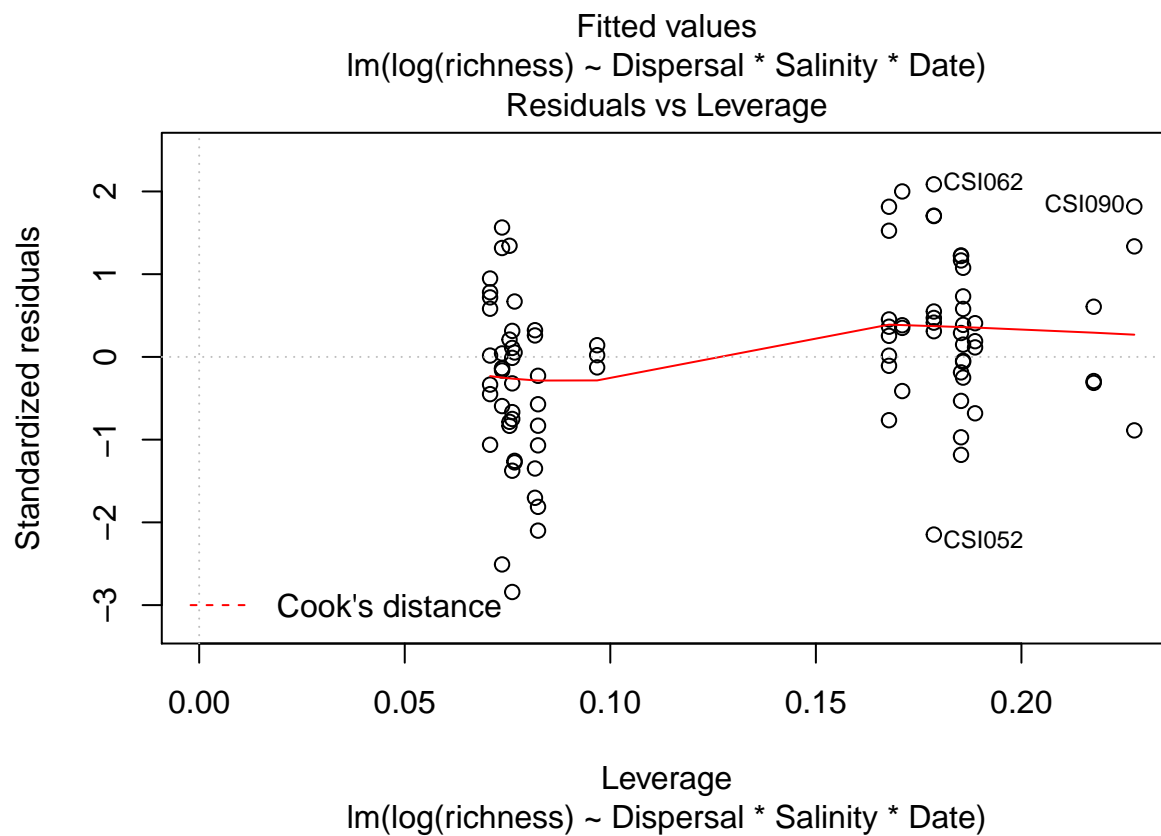
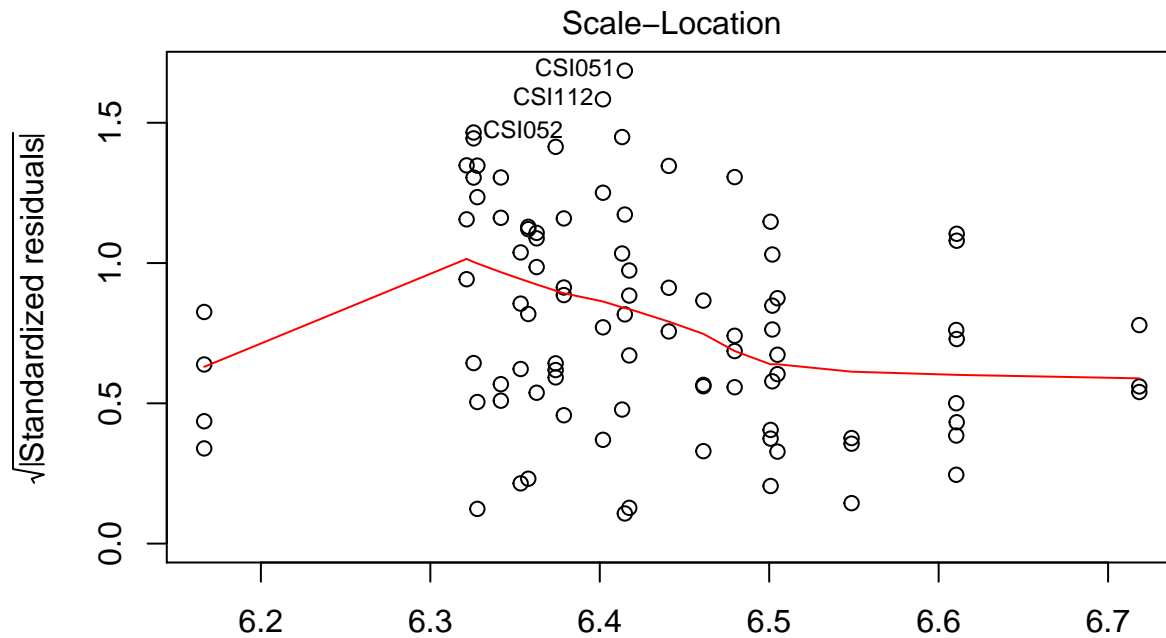
```
# run full parametric statistical model
```

```
richness.lm <- lm(log(richness) ~ Dispersal*Salinity*Date, data = csi_otu.div)
```

```
plot(richness.lm)
```







```
richness.lm
```

```
##
## Call:
## lm(formula = log(richness) ~ Dispersal * Salinity * Date, data = csi_otu.div)
##
## Coefficients:
```

```
##              (Intercept)                Dispersal
##              5.77411                0.19621
##              Salinity                Date6/29/15
##              0.10550                0.64297
##              Date7/26/15            Dispersal:Salinity
##              0.83573                -0.03152
##              Dispersal:Date6/29/15    Dispersal:Date7/26/15
##              -0.22810                -0.19594
##              Salinity:Date6/29/15      Salinity:Date7/26/15
##              -0.08443                -0.12770
## Dispersal:Salinity:Date6/29/15    Dispersal:Salinity:Date7/26/15
##              0.02585                0.03167
```

```
anova(richness.lm)
```

```
## Analysis of Variance Table
```

```
##
```

```
## Response: log(richness)
```

```
##              Df Sum Sq Mean Sq F value    Pr(>F)
## Dispersal      1  0.0079  0.00795    0.1098  0.741197
## Salinity       1  0.0175  0.01748    0.2416  0.624415
## Date          2  0.1034  0.05169    0.7145  0.492585
## Dispersal:Salinity  1  0.0703  0.07028    0.9713  0.327356
## Dispersal:Date   2  0.0229  0.01146    0.1584  0.853772
## Salinity:Date    2  0.8282  0.41411    5.7235  0.004772 **
## Dispersal:Salinity:Date 2  0.0997  0.04984    0.6889  0.505141
## Residuals     79  5.7159  0.07235
```

```
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
# run linear regression measured salinity used instead of 'factor' salinity
```

```
richness.reg <- lm(richness~Salinity_real, data = csi_otu.div)
```

```
summary(richness.reg)
```

```
##
```

```
## Call:
```

```
## lm(formula = richness ~ Salinity_real, data = csi_otu.div)
```

```
##
```

```
## Residuals:
```

```
##      Min       1Q   Median       3Q      Max
## -353.13 -122.88   -6.48   108.19   374.55
```

```
##
```

```
## Coefficients:
```

```
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   623.160     31.280   19.922  <2e-16 ***
## Salinity_real    2.689       3.847    0.699    0.486
```

```
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
```

```
## Residual standard error: 167.8 on 89 degrees of freedom
```

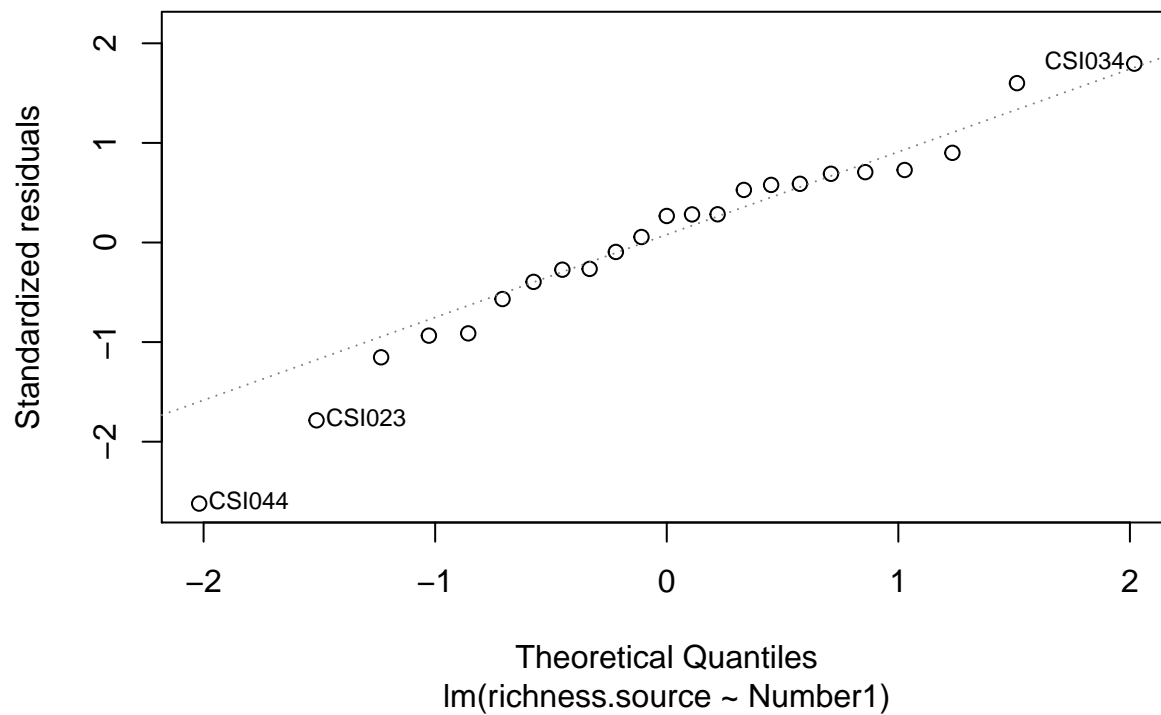
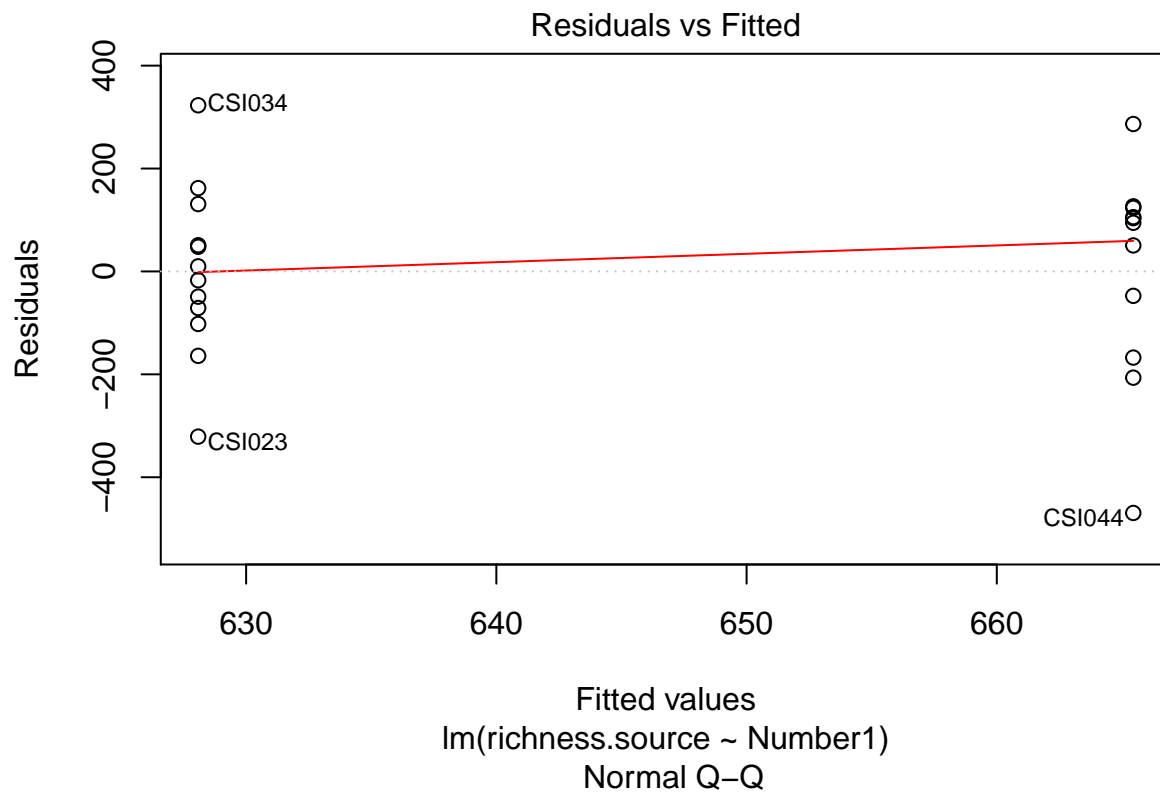
```
## Multiple R-squared:  0.005461,    Adjusted R-squared:  -0.005713
```

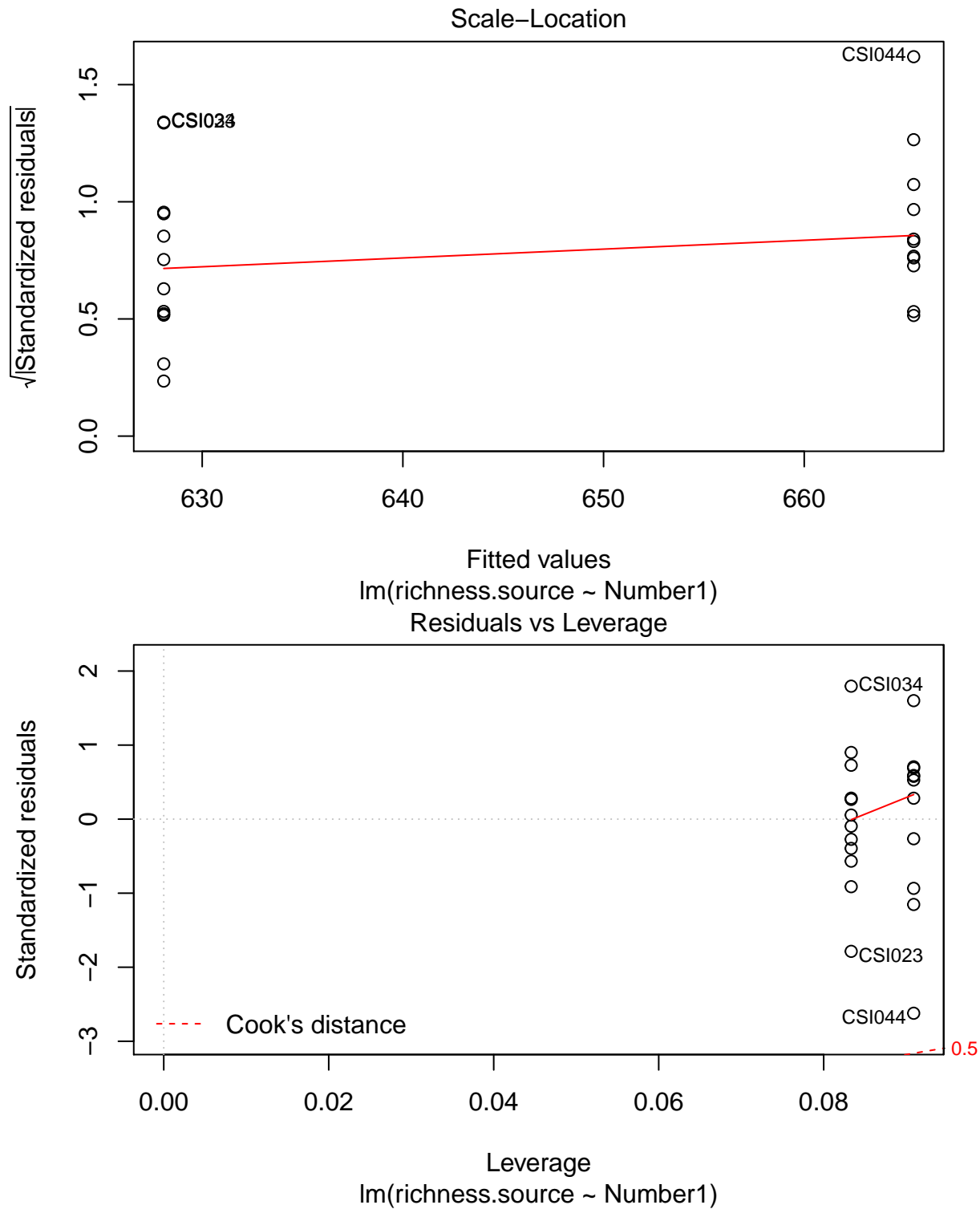
```
## F-statistic: 0.4887 on 1 and 89 DF,  p-value: 0.4863
```

```
# run for source tanks only
```

```
richness.lm.source <- lm(richness.source ~ Number1, data = csi.div.source)
```

```
plot(richness.lm.source)
```





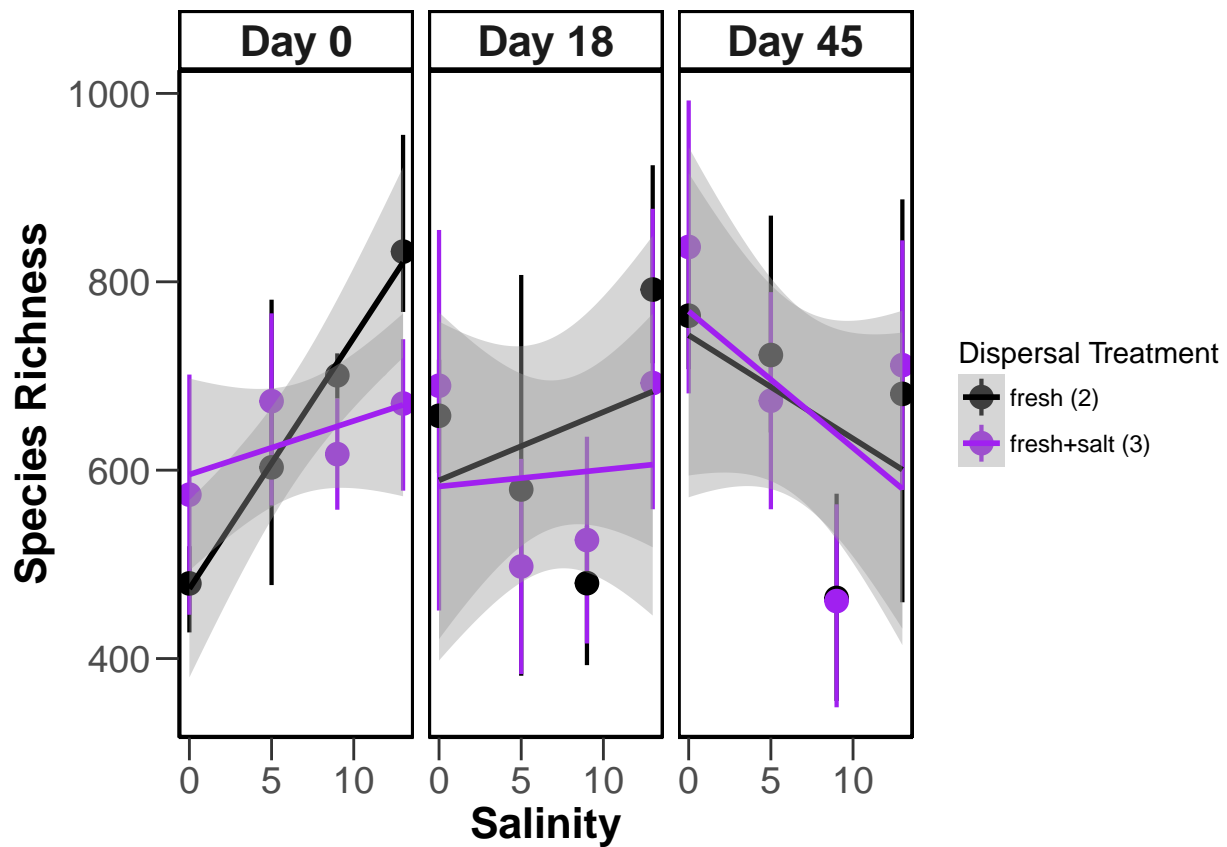
```
summary(richness.lm.source)
```

```
##
## Call:
## lm(formula = richness.source ~ Number1, data = csi.div.source)
##
```

```
## Residuals:
##      Min       1Q   Median       3Q      Max
## -469.45  -86.58   47.92  114.55  322.92
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    665.45      56.63  11.751 1.07e-10 ***
## Number12       -37.37      78.40   -0.477   0.639
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 187.8 on 21 degrees of freedom
## Multiple R-squared:  0.0107, Adjusted R-squared:  -0.03641
## F-statistic: 0.2272 on 1 and 21 DF,  p-value: 0.6385
richness.lm.source

##
## Call:
## lm(formula = richness.source ~ Number1, data = csi.div.source)
##
## Coefficients:
## (Intercept)      Number12
##      665.45         -37.37
anova(richness.lm.source)

## Analysis of Variance Table
##
## Response: richness.source
##           Df Sum Sq Mean Sq F value Pr(>F)
## Number1    1   8015    8015  0.2272 0.6385
## Residuals 21 740856   35279
# Graphing richness - Treatment Salinity
p <- ggplot(csi_otu.div, aes(x=Salinity, y=richness, color=as.factor(Dispersal)))+ scale_color_manual(n
p1=p+geom_smooth(method="lm")+facet_wrap(~Date2)+facet_grid(. ~ Date2, labeller=labeller(Date2 = labels
p1 + theme_bw() + theme(panel.grid.major = element_blank(), panel.grid.minor = element_blank(), axis.lin
```



```
ggsave("../figures/richness.pdf", plot=last_plot(), device=NULL, path=NULL, scale=1, width=NA, height=NA)
```

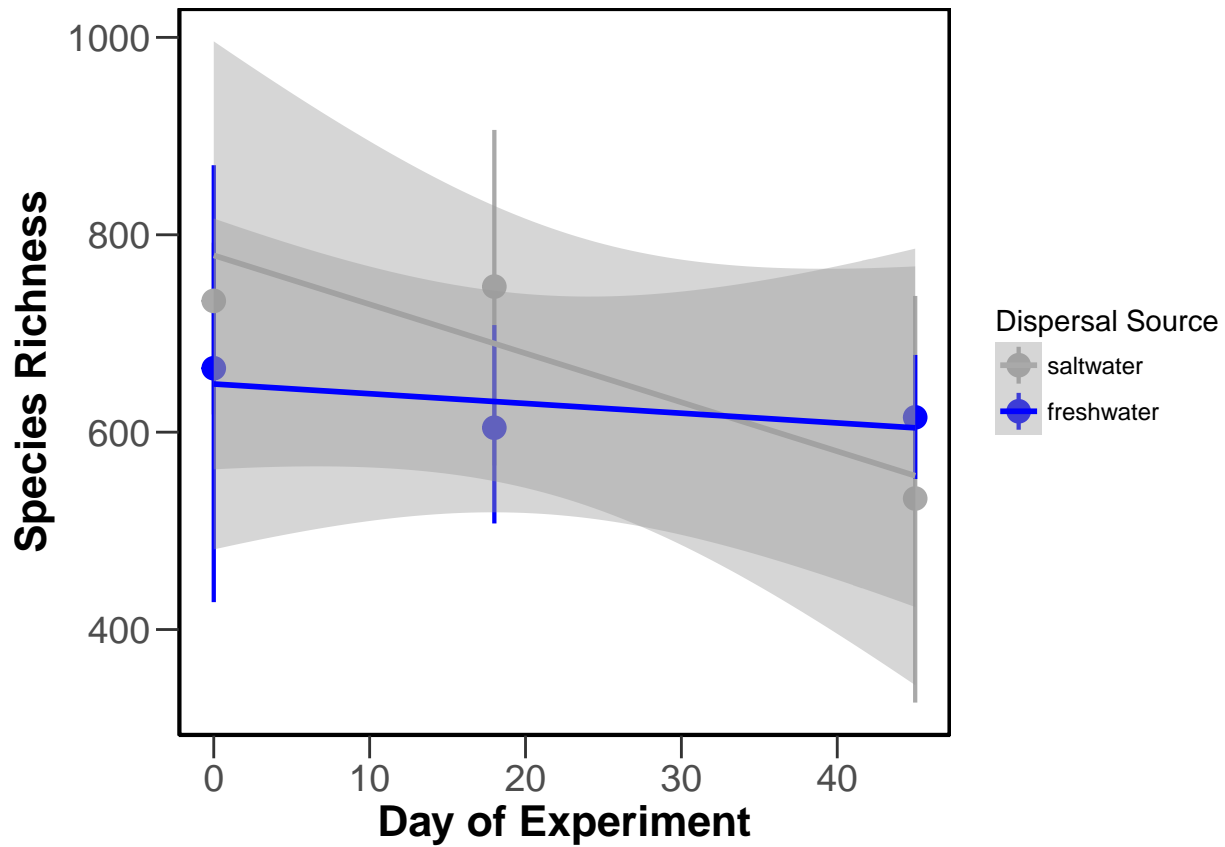
```
## Saving 6.5 x 4.5 in image
```

```
# Graphing richness - Treatment Salinity SOURCE ONLY
```

```
p <- ggplot(csi.div.source, aes(x=Date2, y=richness.source, color=as.factor(Number1)))+ scale_color_manual(values=c("black", "purple"))
```

```
p1=p+geom_smooth(method="lm")
```

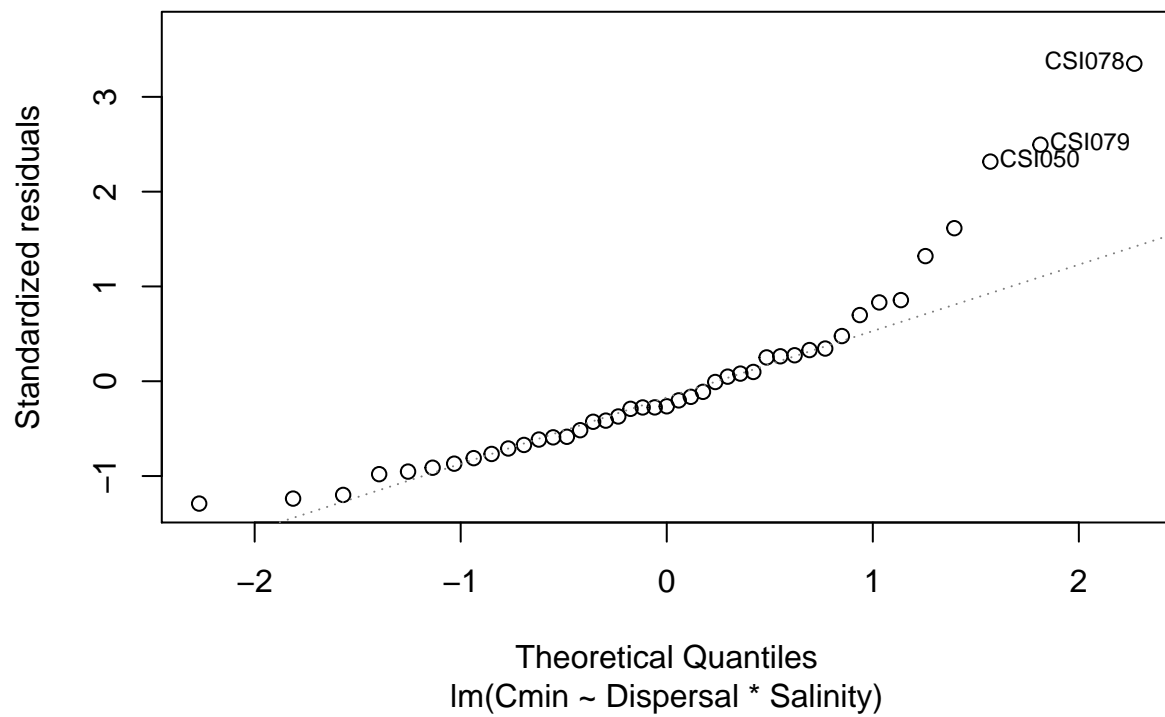
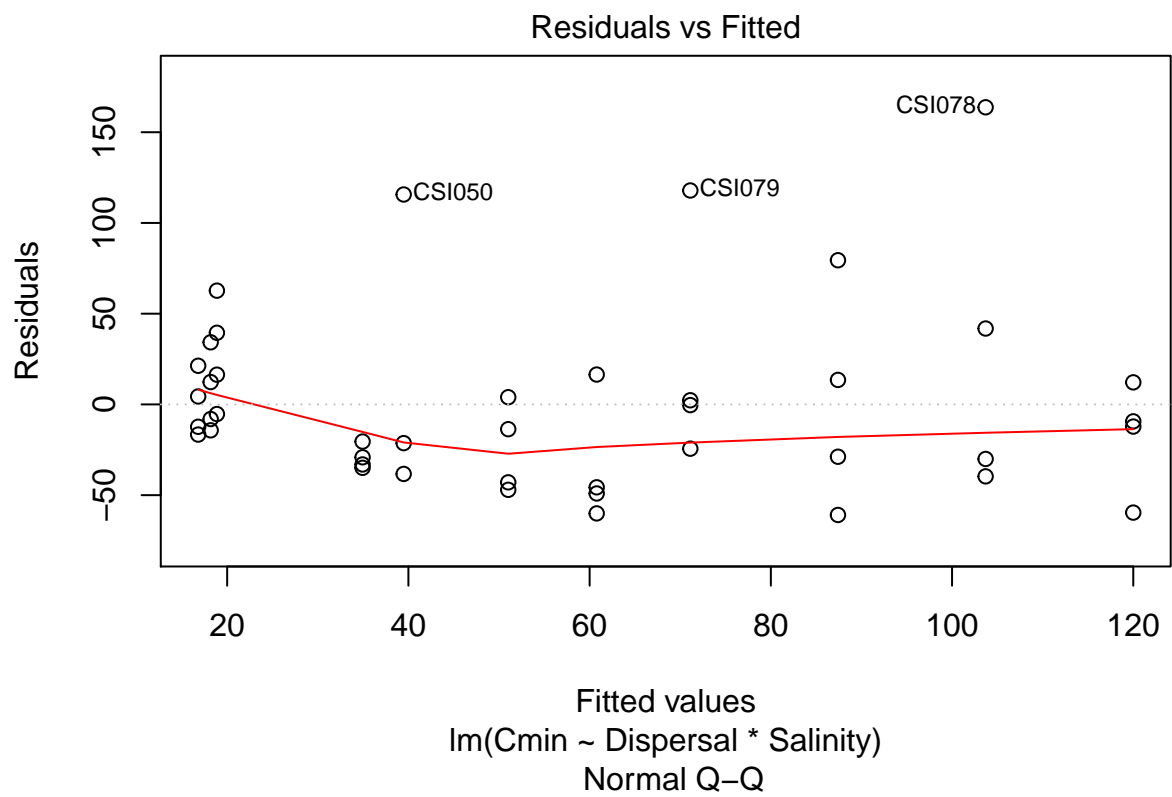
```
p1 + theme_bw() + theme(panel.grid.major = element_blank(), panel.grid.minor = element_blank(), axis.linetype = "solid")
```



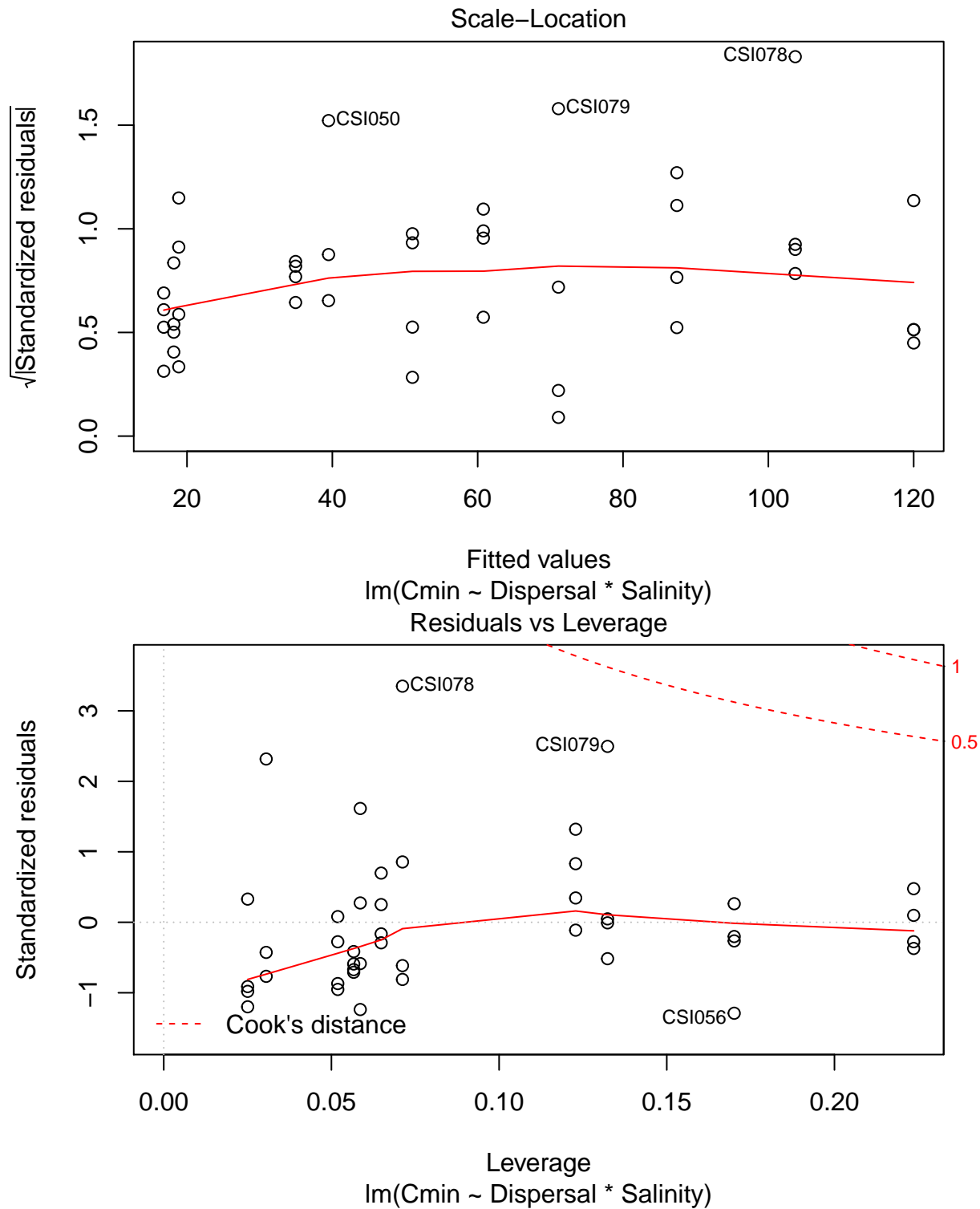
```
ggsave("../figures/richness.source.pdf", plot=last_plot(), device=NULL, path=NULL, scale=1, width=NA, height=NA)
```

## Saving 6.5 x 4.5 in image

- (4) How does salinity and dispersal influence carbon mineralization rates? Calculate C mineralization rate (should be completed already in CSI shared folder) Graph C mineralization Run stat model  $C_{min} \sim \text{dispersal} + \text{salinity} + \text{dispersal} * \text{salinity}$





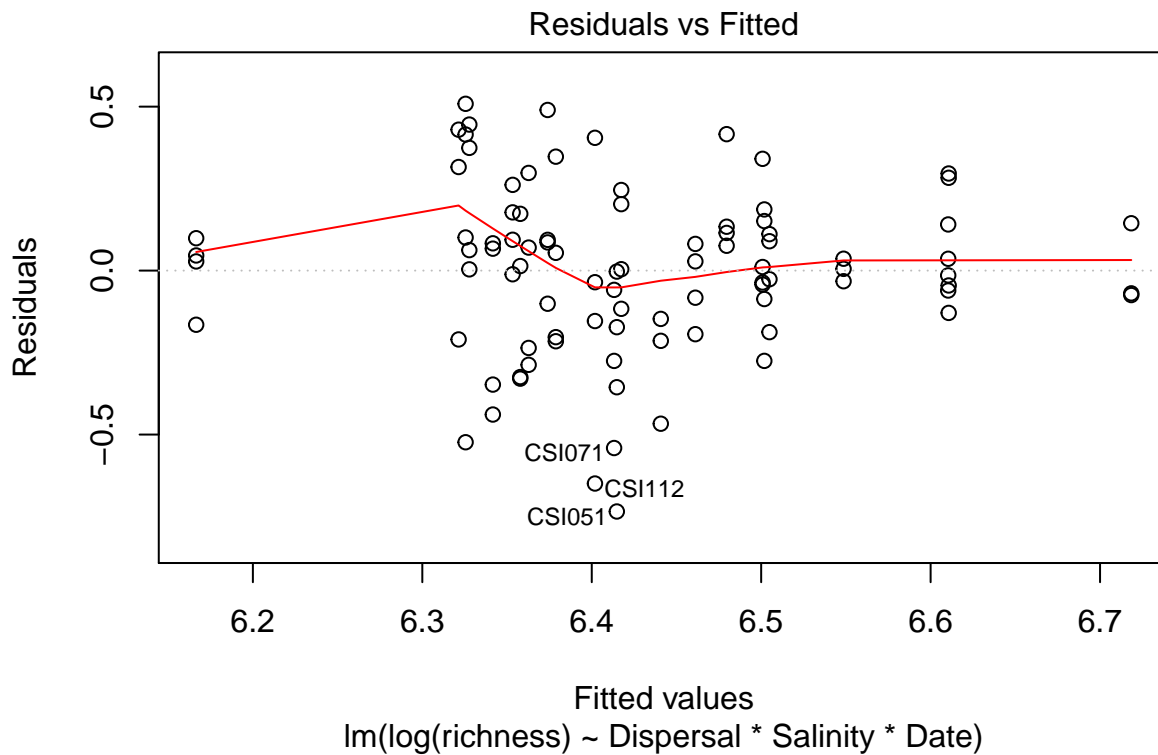


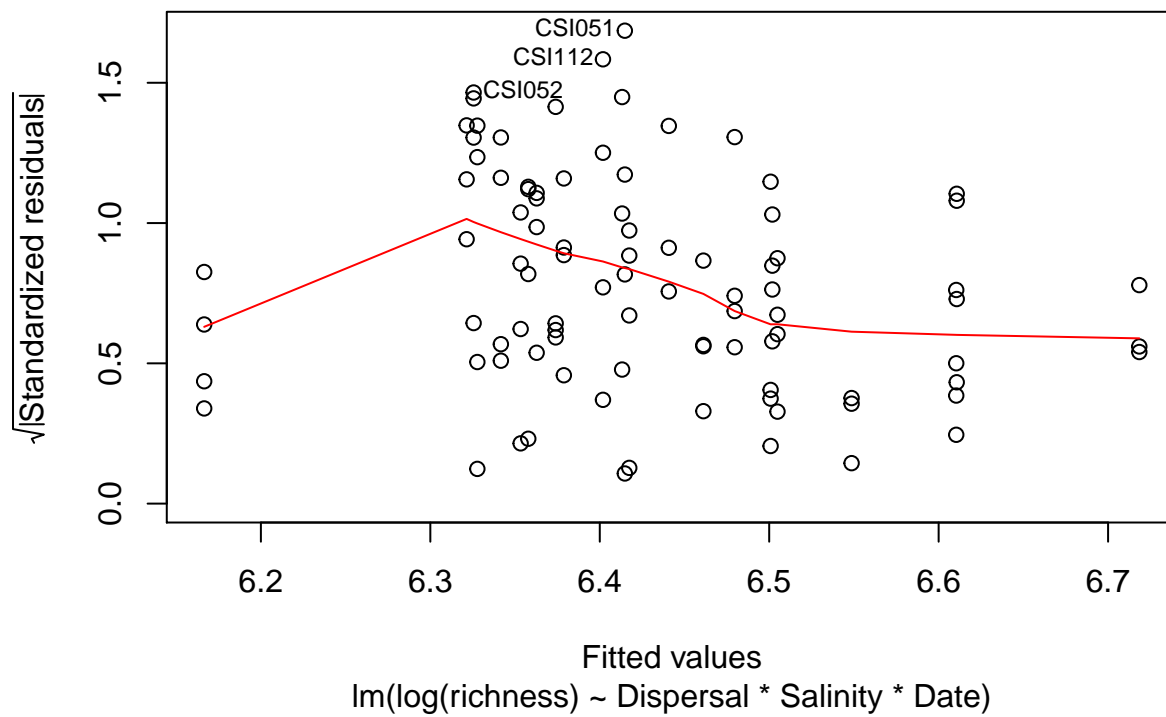
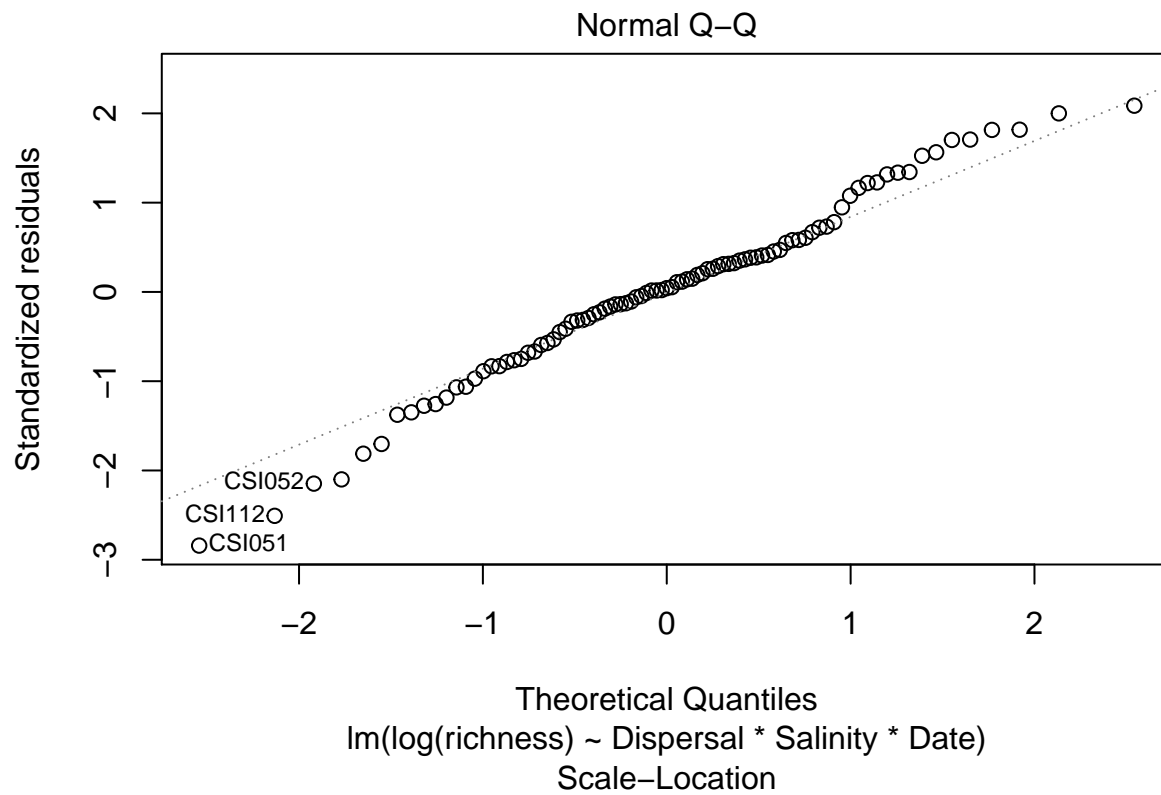
```
##
## Call:
## lm(formula = Cmin ~ Dispersal * Salinity, data = design.env.full)
##
## Coefficients:
##      (Intercept)      Dispersal      Salinity
```

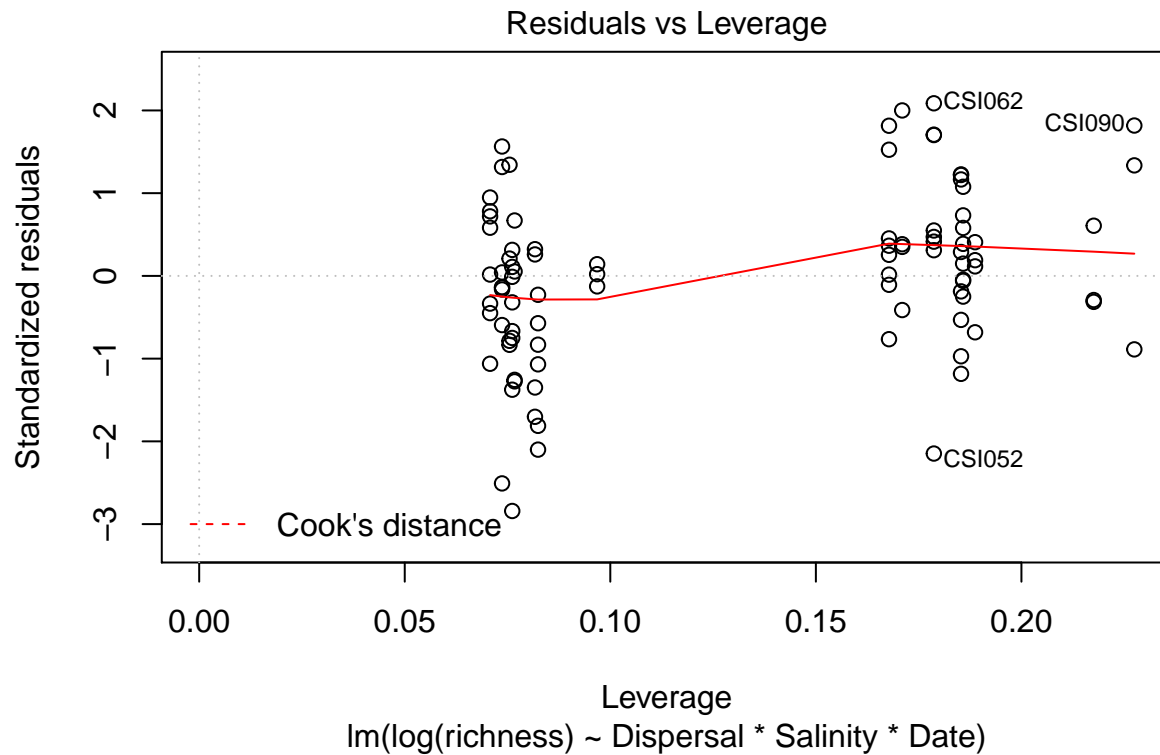
```
##          120.000          -16.295          -7.938
## Dispersal:Salinity
##          1.306

## Analysis of Variance Table
##
## Response: Cmin
##          Df Sum Sq Mean Sq F value    Pr(>F)
## Dispersal      1   6461    6461   2.5121 0.1210545
## Salinity        1  41108   41108  15.9828 0.0002756 ***
## Dispersal:Salinity 1   2902    2902   1.1283 0.2946673
## Residuals     39 100309    2572
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

## [1]    91 13451
## [1]    31 13451
```







```
##
## Call:
## lm(formula = log(richness) ~ Dispersal * Salinity * Date, data = csi_otu.div)
##
## Coefficients:
##              (Intercept)              Dispersal
##              5.77411              0.19621
##              Salinity              Date6/29/15
##              0.10550              0.64297
##              Date7/26/15              Dispersal:Salinity
##              0.83573              -0.03152
##              Dispersal:Date6/29/15              Dispersal:Date7/26/15
##              -0.22810              -0.19594
##              Salinity:Date6/29/15              Salinity:Date7/26/15
##              -0.08443              -0.12770
##              Dispersal:Salinity:Date6/29/15              Dispersal:Salinity:Date7/26/15
##              0.02585              0.03167
##
## Analysis of Variance Table
##
## Response: log(richness)
##
##              Df Sum Sq Mean Sq F value    Pr(>F)
## Dispersal      1  0.0079  0.00795    0.1098  0.741197
## Salinity       1  0.0175  0.01748    0.2416  0.624415
## Date          2  0.1034  0.05169    0.7145  0.492585
## Dispersal:Salinity  1  0.0703  0.07028    0.9713  0.327356
## Dispersal:Date    2  0.0229  0.01146    0.1584  0.853772
## Salinity:Date     2  0.8282  0.41411    5.7235  0.004772 **
## Dispersal:Salinity:Date  2  0.0997  0.04984    0.6889  0.505141
## Residuals     79  5.7159  0.07235
```

```

## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

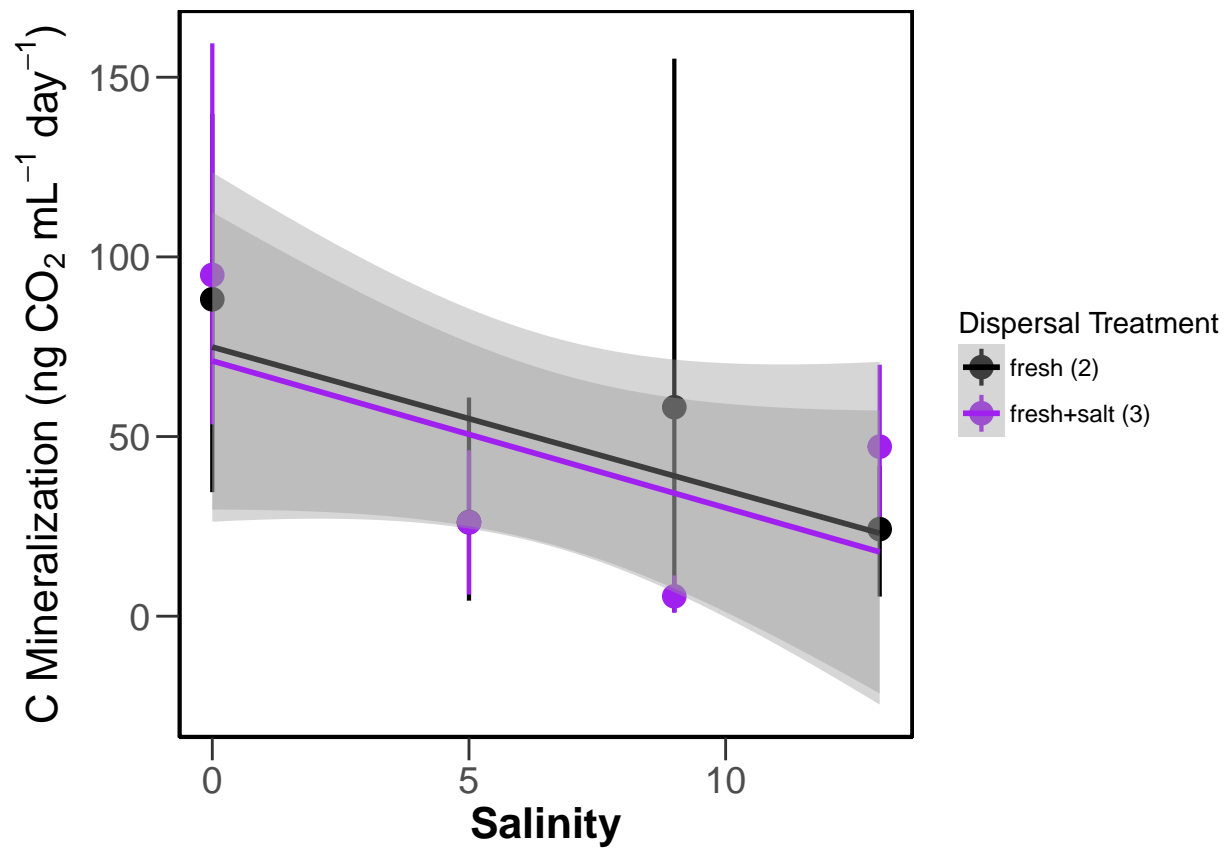
##
## Call:
## lm(formula = Cmin ~ Dispersal * Salinity, data = csi.full.ns.Cmin)
##
## Coefficients:
##      (Intercept)      Dispersal      Salinity
##      82.6185      -3.8559      -3.7776
## Dispersal:Salinity
##      -0.1041

## Analysis of Variance Table
##
## Response: Cmin
##           Df Sum Sq Mean Sq F value Pr(>F)
## Dispersal    1    206   205.8   0.0874 0.76974
## Salinity      1 12012 12011.7   5.1015 0.03219 *
## Dispersal:Salinity 1     2     2.0   0.0008 0.97699
## Residuals    27 63572  2354.5

## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

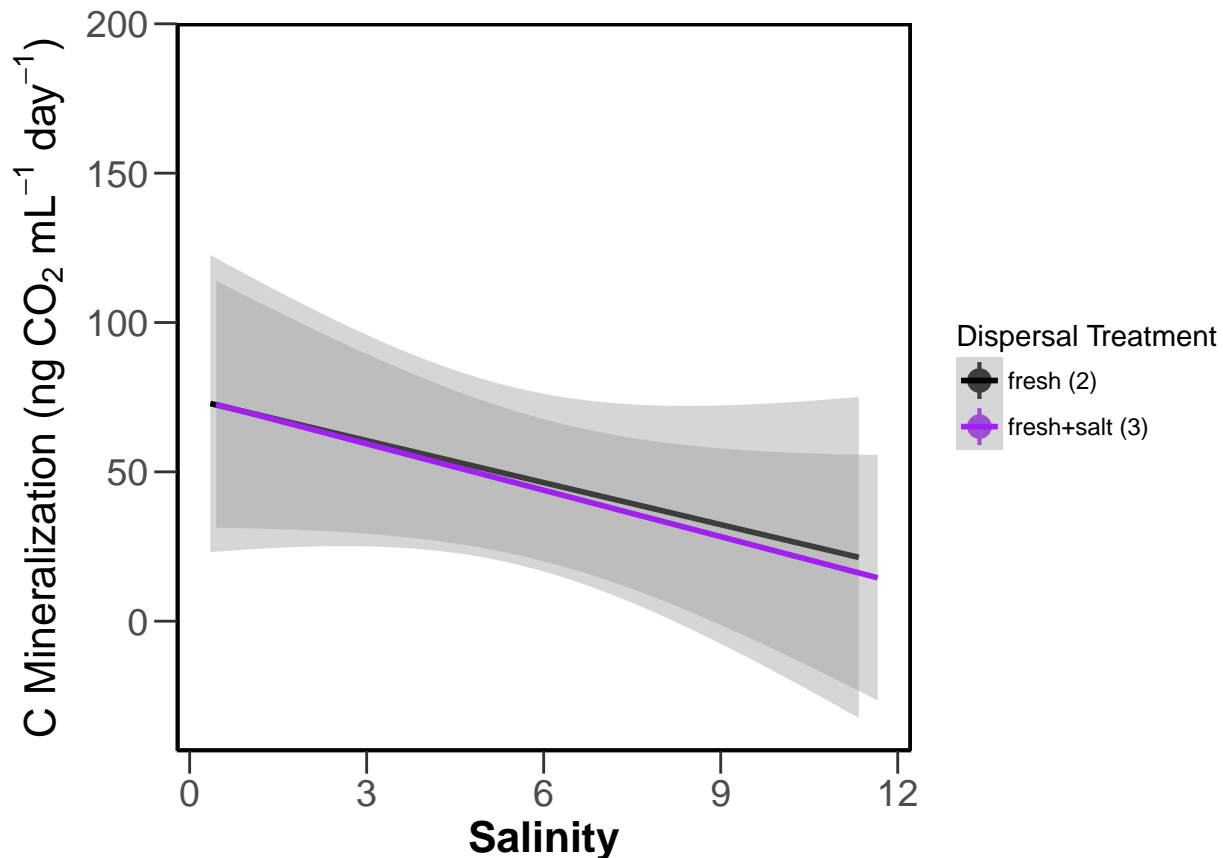
##
## Call:
## lm(formula = Cmin ~ Salinity_real, data = csi.full.ns.Cmin)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -51.84 -31.68 -15.30   20.82  118.96
##
## Coefficients:
##           Estimate Std. Error t value Pr(>|t|)
## (Intercept)   74.849    15.137   4.945 2.96e-05 ***
## Salinity_real  -4.973     2.161  -2.301  0.0288 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 47.01 on 29 degrees of freedom
## Multiple R-squared:  0.1544, Adjusted R-squared:  0.1252
## F-statistic: 5.295 on 1 and 29 DF,  p-value: 0.02877

```



## Saving 6.5 x 4.5 in image

## Warning: Removed 31 rows containing missing values (geom\_pointrange).



```
## Saving 6.5 x 4.5 in image
```

```
## Warning: Removed 31 rows containing missing values (geom_pointrange).
```

- (6) How does salinity and dispersal influence bacterial community composition? (this should be done - just combine with your Rmd file and double check) -Complete with source tanks -Complete without source tanks (SFS poster code) Revisit original data set and include source tanks to Rmd file - still waiting on full env data from Jo Werba Graph PCoA ordination (include source tanks) - salinity=colors, date=shapes, label source tanks Run PERMANOVA to test bacterial community ~ salinity + dispersal + salinity\*dispersal

```
## Loading required package: labdsv
```

```
## Loading required package: mgcv
```

```
## Warning: package 'mgcv' was built under R version 3.2.5
```

```
## This is mgcv 1.8-17. For overview type 'help("mgcv-package")'.
```

```
##
```

```
## Attaching package: 'mgcv'
```

```
## The following object is masked from 'package:futile.logger':
```

```
##
```

```
## scat
```

```
## Loading required package: cluster
```

```
## Warning: package 'cluster' was built under R version 3.2.5
```

```
##
```

```
## Attaching package: 'labdsv'
```

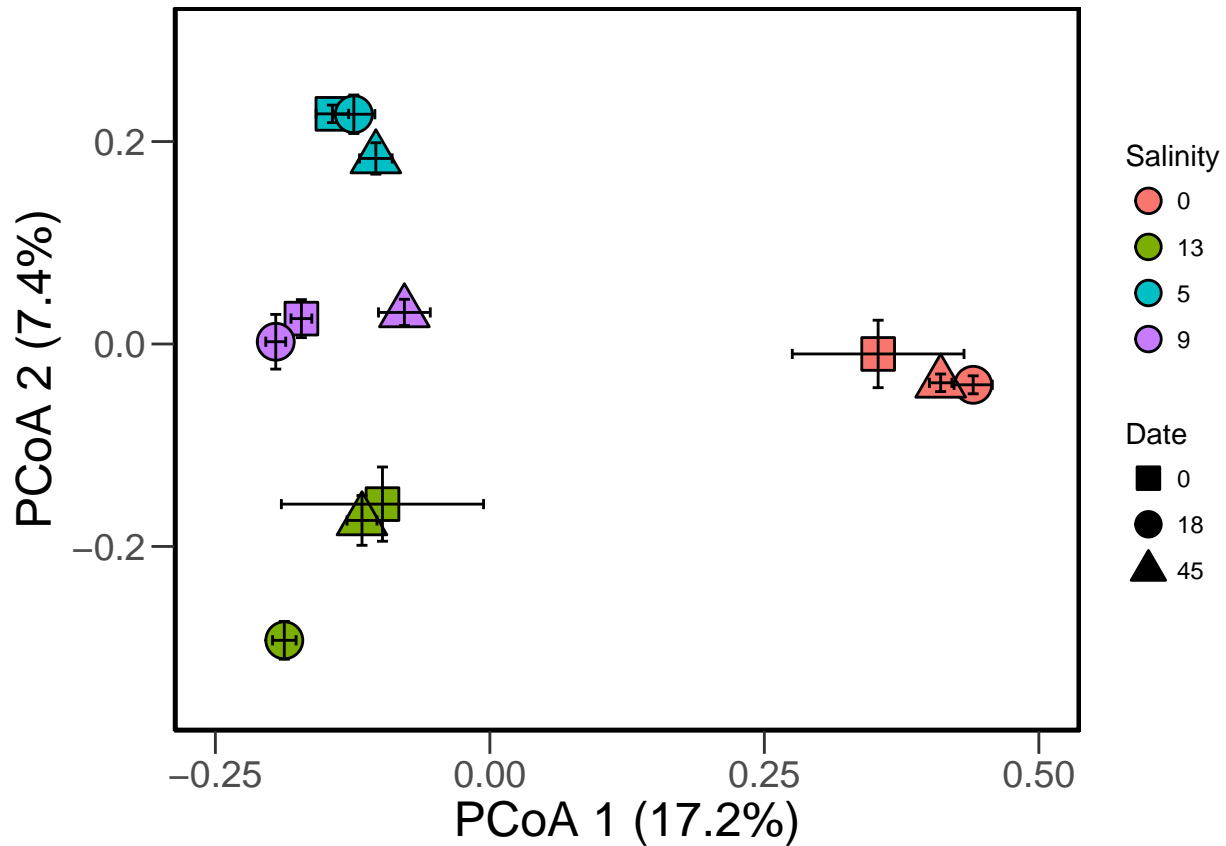
```
## The following objects are masked from 'package:ecodist':
##
##      nmds, pco
## The following object is masked from 'package:stats':
##
##      density
##
## Call:
## adonis(formula = csi.full.ns[, -c(1:16)] ~ Date2 * Dispersal *      Salinity, data = csi.full.ns, pe
##
## Permutation: free
## Number of permutations: 1000
##
## Terms added sequentially (first to last)
##
##              Df SumsOfSqs MeanSqs F.Model      R2    Pr(>F)
## Date2          1      1.781  1.7812  5.5846 0.05232 0.000999 ***
## Dispersal       1      0.248  0.2482  0.7783 0.00729 0.801199
## Salinity        1      3.905  3.9045 12.2420 0.11469 0.000999 ***
## Date2:Dispersal 1      0.162  0.1617  0.5070 0.00475 0.998002
## Date2:Salinity   1      0.917  0.9172  2.8759 0.02694 0.000999 ***
## Dispersal:Salinity 1      0.297  0.2966  0.9298 0.00871 0.513487
## Date2:Dispersal:Salinity 1      0.263  0.2632  0.8251 0.00773 0.730270
## Residuals       83     26.472  0.3189      0.77757
## Total           90     34.045      1.00000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## [1] 17.2
## [1] 7.4
```

## PCoA Plot Design without Source

```
## [1] TRUE
```



## Plot (ggplot)



## Saving 6.5 x 4.5 in image

## PCoA sources only

```
##          CSI_ID      Date Date2 Replicate Number      Tank_Name
## CSI001 ECU_CSI_001 11-Jun-15      0          A          1 A1_2015-June11
## CSI012 ECU_CSI_012 11-Jun-15      0          B          1 B1_2015-June11
## CSI022 ECU_CSI_023 11-Jun-15      0          C          1 C1_2015-June11
## CSI044 ECU_CSI_221 26-Jul-15     45          A          1 A1_2015-July25
## CSI055 ECU_CSI_232 26-Jul-15     45          B          1 B1_2015-July25
## CSI065 ECU_CSI_243 26-Jul-15     45          C          1 C1_2015-July25
## CSI076 ECU_CSI_254 26-Jul-15     45          D          1 D1_2015-July25
##          Salinity Dispersal   Otu00001   Otu00002   Otu00003
## CSI001         13 Source13 0.04083212 2.345326e-05 8.499461e-02
## CSI012         13 Source13 0.06285793 2.932450e-04 5.882150e-03
## CSI022         13 Source13 0.06499849 6.454667e-05 3.068118e-02
## CSI044         13 Source13 0.04923010 0.000000e+00 1.971570e-05
## CSI055         13 Source13 0.03169037 0.000000e+00 4.302833e-05
## CSI065         13 Source13 0.07223630 1.512802e-04 2.987784e-03
## CSI076         13 Source13 0.08660461 0.000000e+00 5.766896e-02
##          Otu00004   Otu00005   Otu00006   Otu00007   Otu00008
## CSI001 3.044233e-02 0.0196303767 0.0019466204 4.456119e-04 0.000000e+00
## CSI012 3.900159e-02 0.0061926447 0.0014834748 1.207479e-04 8.624853e-05
```

```

## CSI022 2.730324e-02 0.0100047334 0.0032488489 9.897156e-04 0.000000e+00
## CSI044 1.971570e-05 0.0216084068 0.1359200331 1.971570e-05 0.000000e+00
## CSI055 1.979303e-03 0.0213635679 0.0262042555 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00 0.1233311902 0.0740516622 0.000000e+00 0.000000e+00
## CSI076 5.000867e-03 0.0239058796 0.0442851362 2.890675e-05 0.000000e+00
##      0tu00009      0tu00010      0tu00011      0tu00012      0tu00013
## CSI001 2.251513e-03 1.747268e-02 1.644073e-02 0.004104320 4.198133e-03
## CSI012 7.244877e-04 5.951149e-03 2.230387e-02 0.005243911 1.198855e-02
## CSI022 1.183356e-03 3.246697e-02 2.297861e-02 0.030250871 4.539782e-03
## CSI044 0.000000e+00 2.405315e-03 9.719840e-03 0.001498393 1.971570e-05
## CSI055 5.905639e-02 5.686194e-02 1.204793e-03 0.001333878 2.151417e-05
## CSI065 0.000000e+00 0.000000e+00 2.080103e-03 0.018304905 3.782005e-05
## CSI076 3.396543e-02 5.781349e-05 2.283633e-03 0.001127363 0.000000e+00
##      0tu00014      0tu00015      0tu00016      0tu00017      0tu00018
## CSI001 0.0004690652 0.0015479150 0.0018293541 0.000000e+00 7.505042e-04
## CSI012 0.0008969848 0.0112295591 0.0016904713 0.000000e+00 9.142345e-04
## CSI022 0.0094022979 0.0118981023 0.0009466845 0.000000e+00 2.194587e-03
## CSI044 0.0000000000 0.0020307171 0.4356775300 0.000000e+00 1.971570e-05
## CSI055 0.0033562101 0.0094662335 0.0001505992 0.000000e+00 2.119576e-01
## CSI065 0.0000000000 0.0078665709 0.0010967815 0.000000e+00 2.647404e-04
## CSI076 0.0009828294 0.0116205122 0.0000000000 2.890675e-05 2.890675e-05
##      0tu00019      0tu00020      0tu00021      0tu00022      0tu00023
## CSI001 2.978564e-03 2.345326e-05 0.000000e+00 0.0767859656 6.449646e-03
## CSI012 2.984199e-03 1.724971e-05 0.000000e+00 0.0644794039 2.130339e-02
## CSI022 1.318904e-02 2.151556e-05 2.797022e-04 0.0315633203 3.775980e-02
## CSI044 4.140297e-04 0.000000e+00 1.971570e-04 0.0003154512 0.000000e+00
## CSI055 4.776145e-03 0.000000e+00 0.000000e+00 0.0016565909 0.000000e+00
## CSI065 1.588442e-03 0.000000e+00 0.000000e+00 0.0004160206 3.782005e-05
## CSI076 7.486847e-03 0.000000e+00 0.000000e+00 0.0002890675 2.023472e-04
##      0tu00024      0tu00025      0tu00026      0tu00027      0tu00028
## CSI001 0.000000e+00 4.925184e-04 0.000000e+00 3.752521e-04 0.0046671983
## CSI012 0.000000e+00 8.624853e-05 1.724971e-05 5.174912e-05 0.0188366798
## CSI022 0.000000e+00 6.454667e-04 0.000000e+00 1.327510e-02 0.0044322045
## CSI044 0.000000e+00 2.109580e-03 0.000000e+00 3.943140e-05 0.0001774413
## CSI055 2.151417e-05 2.151417e-04 0.000000e+00 2.151417e-05 0.0131021278
## CSI065 0.000000e+00 5.975568e-03 0.000000e+00 3.286563e-02 0.0004160206
## CSI076 1.156270e-04 0.000000e+00 1.387524e-03 1.734405e-04 0.0079782621
##      0tu00029      0tu00030      0tu00031      0tu00032      0tu00033
## CSI001 0.008818425 2.345326e-05 0.000000e+00 2.415686e-03 0.000000e+00
## CSI012 0.008003864 3.449941e-05 0.000000e+00 1.875043e-02 5.174912e-05
## CSI022 0.031541805 2.151556e-05 0.000000e+00 2.108524e-03 2.151556e-05
## CSI044 0.046193884 1.971570e-05 1.971570e-05 1.971570e-05 0.000000e+00
## CSI055 0.002215959 2.151417e-05 0.000000e+00 0.000000e+00 6.454250e-05
## CSI065 0.051246171 0.000000e+00 3.782005e-05 0.000000e+00 0.000000e+00
## CSI076 0.009972828 0.000000e+00 0.000000e+00 0.000000e+00 2.890675e-05
##      0tu00034      0tu00035      0tu00036      0tu00037      0tu00038
## CSI001 0.0026971246 4.273184e-02 0.000000e+00 0.000000e+00 2.110793e-03
## CSI012 0.0008107362 6.803284e-02 3.449941e-05 0.000000e+00 9.314842e-04
## CSI022 0.0008391067 2.261285e-02 2.151556e-05 0.000000e+00 3.571582e-03
## CSI044 0.0000197157 3.174228e-03 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 0.0030980401 7.529958e-04 0.000000e+00 0.000000e+00 8.605667e-05
## CSI065 0.0015884422 3.782005e-05 0.000000e+00 0.000000e+00 4.727507e-03
## CSI076 0.0021680060 1.240099e-02 2.890675e-05 0.000000e+00 4.249292e-03
##      0tu00039      0tu00040      0tu00041      0tu00042      0tu00043

```

```

## CSI001 5.863314e-04 2.345326e-05 4.690652e-05 0.000000e+00 0.000000e+00
## CSI012 7.108604e-02 0.000000e+00 1.017733e-03 1.724971e-05 3.449941e-05
## CSI022 4.690391e-03 2.151556e-05 4.303111e-05 2.151556e-05 1.075778e-04
## CSI044 0.000000e+00 1.971570e-05 3.943140e-05 0.000000e+00 0.000000e+00
## CSI055 2.151417e-05 2.151417e-05 0.000000e+00 2.151417e-05 4.733117e-04
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076 5.781349e-05 5.781349e-05 1.242990e-03 0.000000e+00 1.156270e-04
##      0tu00044      0tu00045 0tu00046      0tu00047 0tu00048
## CSI001 0.0000000000 0.0008443173      0 1.536188e-02      0
## CSI012 0.0004139930 0.0012937280      0 5.709653e-03      0
## CSI022 0.0012263867 0.0207625113      0 9.466845e-04      0
## CSI044 0.0000394314 0.0000000000      0 0.000000e+00      0
## CSI055 0.0003442267 0.0000000000      0 1.527506e-02      0
## CSI065 0.0138043190 0.0000000000      0 7.639651e-03      0
## CSI076 0.0072266867 0.0001156270      0 9.134532e-03      0
##      0tu00049      0tu00050 0tu00051      0tu00052 0tu00053
## CSI001 0.000000e+00 4.690652e-05      0 0.000000e+00 1.876261e-04
## CSI012 0.000000e+00 5.174912e-05      0 3.449941e-05 1.207479e-04
## CSI022 0.000000e+00 1.936400e-04      0 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00 3.943140e-05      0 0.000000e+00 8.477751e-04
## CSI055 0.000000e+00 6.454250e-05      0 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00 1.891003e-04      0 0.000000e+00 5.673008e-04
## CSI076 0.000000e+00 2.312540e-04      0 0.000000e+00 0.000000e+00
##      0tu00054      0tu00055 0tu00056      0tu00057 0tu00058
## CSI001 2.345326e-05 0.0271119659 2.345326e-04 0.000000e+00 0.000000e+00
## CSI012 3.449941e-05 0.0057786518 1.724971e-05 0.000000e+00 3.449941e-05
## CSI022 1.075778e-04 0.0005378889 0.000000e+00 4.303111e-05 2.151556e-05
## CSI044 5.914710e-05 0.0000985785 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 6.454250e-05 0.0055291409 0.000000e+00 0.000000e+00 2.151417e-05
## CSI065 1.134602e-04 0.0019666427 0.000000e+00 1.176204e-02 7.715291e-03
## CSI076 5.781349e-05 0.0081227959 0.000000e+00 5.781349e-05 2.113083e-02
##      0tu00059      0tu00060 0tu00061      0tu00062 0tu00063
## CSI001 1.383742e-03 0.000000e+00      0 2.345326e-05 1.172663e-04
## CSI012 1.086732e-03 0.000000e+00      0 5.450907e-03 2.069965e-04
## CSI022 0.000000e+00 2.151556e-05      0 9.897156e-04 1.506089e-04
## CSI044 0.000000e+00 1.971570e-05      0 5.914710e-05 0.000000e+00
## CSI055 4.302833e-05 0.000000e+00      0 0.000000e+00 4.302833e-05
## CSI065 7.564010e-05 0.000000e+00      0 0.000000e+00 1.512802e-04
## CSI076 2.023472e-04 0.000000e+00      0 0.000000e+00 3.208649e-03
##      0tu00064      0tu00065 0tu00066      0tu00067 0tu00068
## CSI001 0.0016182748 4.456119e-04 7.974108e-04 2.579858e-04 0.0205919602
## CSI012 0.0025874560 0.000000e+00 1.724971e-05 1.379977e-04 0.0049334161
## CSI022 0.0004733422 2.151556e-05 0.000000e+00 2.797022e-04 0.0218598046
## CSI044 0.0001774413 0.000000e+00 1.971570e-05 0.000000e+00 0.0000000000
## CSI055 0.0217293087 0.000000e+00 0.000000e+00 0.000000e+00 0.0001721133
## CSI065 0.0050678870 0.000000e+00 0.000000e+00 0.000000e+00 0.0100601339
## CSI076 0.0094235995 0.000000e+00 0.000000e+00 8.672024e-05 0.0000000000
##      0tu00069      0tu00070 0tu00071      0tu00072 0tu00073
## CSI001 0.00000e+00 0.000000e+00 1.829354e-03 0.0007270510 0.0030723768
## CSI012 0.00000e+00 0.000000e+00 1.897468e-04 0.0047436694 0.0063478921
## CSI022 0.00000e+00 0.000000e+00 2.366711e-04 0.0133826757 0.0037867378
## CSI044 1.97157e-05 0.000000e+00 0.000000e+00 0.0003154512 0.0001182942
## CSI055 0.00000e+00 0.000000e+00 1.441449e-03 0.0004948258 0.0028398701
## CSI065 0.00000e+00 0.000000e+00 0.000000e+00 0.0020422828 0.0032525245

```

```

## CSI076 0.00000e+00 0.000000e+00 1.156270e-04 0.0088743713 0.0020812858
##          0tu00074          0tu00075          0tu00076          0tu00077          0tu00078
## CSI001 0.000000e+00 9.146770e-04 4.925184e-04 0.0000000000 9.381303e-05
## CSI012 0.000000e+00 7.814117e-03 0.000000e+00 0.0000000000 0.000000e+00
## CSI022 0.000000e+00 1.936400e-03 5.809200e-04 0.002603382 0.000000e+00
## CSI044 0.000000e+00 5.914710e-05 0.000000e+00 0.0000000000 9.857850e-05
## CSI055 0.000000e+00 0.000000e+00 4.302833e-05 0.0000000000 5.787311e-03
## CSI065 3.782005e-05 4.538406e-04 0.000000e+00 0.0000000000 0.000000e+00
## CSI076 2.890675e-05 2.890675e-05 0.000000e+00 0.000231254 6.937619e-03
##          0tu00079          0tu00080          0tu00081          0tu00082          0tu00083
## CSI001 0.000000e+00 0.0000000000 4.737558e-03 0.000000e+00 0.03140391
## CSI012 0.000000e+00 0.0004312427 1.274753e-02 0.000000e+00 0.00000000
## CSI022 0.000000e+00 0.0001290933 1.310297e-02 2.151556e-05 0.00000000
## CSI044 1.971570e-05 0.0009660693 1.971570e-05 0.000000e+00 0.00000000
## CSI055 2.151417e-05 0.0031410684 0.000000e+00 2.151417e-05 0.00000000
## CSI065 0.000000e+00 0.0209144889 3.782005e-05 0.000000e+00 0.00000000
## CSI076 0.000000e+00 0.0008961092 0.000000e+00 0.000000e+00 0.00000000
##          0tu00084          0tu00085          0tu00086          0tu00087          0tu00088
## CSI001 2.345326e-05 0.0078333881 1.641728e-04 0.000000e+00 0
## CSI012 0.000000e+00 0.0038294349 0.000000e+00 1.724971e-05 0
## CSI022 0.000000e+00 0.0630405783 0.000000e+00 4.303111e-05 0
## CSI044 0.000000e+00 0.0000197157 1.478677e-03 1.971570e-05 0
## CSI055 0.000000e+00 0.0001505992 1.333878e-03 0.000000e+00 0
## CSI065 0.000000e+00 0.0004538406 3.782005e-05 0.000000e+00 0
## CSI076 0.000000e+00 0.0044516390 0.000000e+00 0.000000e+00 0
##          0tu00089          0tu00090          0tu00091          0tu00092          0tu00093
## CSI001 0.000000e+00 2.345326e-05 0.000000e+00 0.0039401473 0.000000e+00
## CSI012 0.000000e+00 3.449941e-05 0.000000e+00 0.0005002415 0.000000e+00
## CSI022 2.323680e-03 0.000000e+00 0.000000e+00 0.0076165067 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00 1.971570e-05 0.0000000000 3.94314e-05
## CSI055 0.000000e+00 1.721133e-04 0.000000e+00 0.0000645425 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000 0.000000e+00
## CSI076 2.890675e-05 0.000000e+00 0.000000e+00 0.0116494190 0.000000e+00
##          0tu00094          0tu00095          0tu00096          0tu00097          0tu00098
## CSI001 0.0000000000 0.0014775552 1.289929e-03 2.345326e-05 0.000000e+00
## CSI012 0.001155730 0.0008624853 3.708687e-03 0.000000e+00 0.000000e+00
## CSI022 0.004066440 0.0007315289 1.725548e-02 2.151556e-03 0.000000e+00
## CSI044 0.0000000000 0.0028390607 0.000000e+00 2.365884e-04 0.000000e+00
## CSI055 0.0000000000 0.0005378542 0.000000e+00 0.000000e+00 2.151417e-05
## CSI065 0.0000000000 0.0011346016 0.000000e+00 2.647404e-04 0.000000e+00
## CSI076 0.0000000000 0.0016765913 6.128230e-03 0.000000e+00 0.000000e+00
##          0tu00099          0tu00100          0tu00101          0tu00102          0tu00103
## CSI001 2.345326e-05 0 0.0005628782 0.0023453258 4.643745e-03
## CSI012 0.000000e+00 0 0.0002069965 0.0020354654 3.622438e-04
## CSI022 0.000000e+00 0 0.0002581867 0.0090580490 1.118809e-03
## CSI044 0.000000e+00 0 0.0000000000 0.0000197157 0.000000e+00
## CSI055 0.000000e+00 0 0.0064112218 0.0003227125 2.495643e-02
## CSI065 3.782005e-05 0 0.0000000000 0.0003025604 0.000000e+00
## CSI076 0.000000e+00 0 0.0023125397 0.0003468810 1.647685e-03
##          0tu00104          0tu00105          0tu00106          0tu00107          0tu00108
## CSI001 0.000000e+00 0.00000e+00 1.407195e-04 0.000000e+00 0.000000e+00
## CSI012 1.724971e-05 0.00000e+00 1.724971e-05 0.000000e+00 5.174912e-05
## CSI022 0.000000e+00 0.00000e+00 5.013124e-03 4.303111e-05 0.000000e+00
## CSI044 0.000000e+00 1.97157e-05 1.971570e-05 1.971570e-05 3.943140e-05

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## CSI055 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00 2.193563e-03 0.000000e+00 3.782005e-05
## CSI076 0.000000e+00 0.000000e+00 0.000000e+00 2.890675e-05 0.000000e+00
##      0tu00109      0tu00110      0tu00111      0tu00112      0tu00113
## CSI001 0.000000e+00 1.360289e-03 0.000000e+00 0.000000e+00 0.000000e+00
## CSI012 0.000000e+00 3.277444e-04 1.207479e-04 0.000000e+00 1.724971e-05
## CSI022 0.000000e+00 4.303111e-05 2.151556e-05 0.000000e+00 0.000000e+00
## CSI044 1.97157e-05 3.943140e-05 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00 2.811902e-02 0.000000e+00 4.302833e-05 0.000000e+00
## CSI065 0.000000e+00 2.269203e-04 0.000000e+00 3.782005e-05 0.000000e+00
## CSI076 0.000000e+00 5.607909e-03 0.000000e+00 2.890675e-05 0.000000e+00
##      0tu00114      0tu00115      0tu00116      0tu00117      0tu00118
## CSI001 0.000000e+00 2.486045e-03 0.000000e+00 0.000000e+00 1.592476e-02
## CSI012 0.000000e+00 2.104464e-03 8.624853e-05 0.000000e+00 4.312427e-04
## CSI022 2.151556e-05 1.054262e-03 4.303111e-05 0.000000e+00 2.581867e-04
## CSI044 0.000000e+00 0.000000e+00 3.943140e-05 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00 4.302833e-05 0.000000e+00 2.151417e-05 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00 5.781349e-05 0.000000e+00 0.000000e+00 2.890675e-05
##      0tu00119      0tu00120      0tu00121      0tu00122      0tu00123
## CSI001 5.159717e-04 0.000000e+00 0.0003517989 2.345326e-04 0.0097565552
## CSI012 2.414959e-04 0.000000e+00 0.0007589871 0.000000e+00 0.0002069965
## CSI022 7.960756e-04 0.000000e+00 0.0018933689 9.036533e-04 0.0008175911
## CSI044 0.000000e+00 0.000000e+00 0.0000000000 5.126082e-04 0.0000000000
## CSI055 0.000000e+00 0.000000e+00 0.0000000000 1.871733e-03 0.0000000000
## CSI065 3.782005e-05 0.000000e+00 0.0315419235 7.564010e-04 0.0000000000
## CSI076 0.000000e+00 0.000000e+00 0.0000000000 5.087587e-03 0.0000000000
##      0tu00124      0tu00125      0tu00126      0tu00127      0tu00128
## CSI001 0.010295980 0.0028143909 0.000000e+00 4.690652e-05 0.000000e+00
## CSI012 0.001276478 0.0006037397 0.000000e+00 5.174912e-05 0.000000e+00
## CSI022 0.003205818 0.0008391067 0.000000e+00 2.151556e-05 0.000000e+00
## CSI044 0.001537825 0.0006703338 0.000000e+00 1.971570e-05 4.731768e-04
## CSI055 0.006023967 0.0030119834 0.000000e+00 4.302833e-05 2.151417e-05
## CSI065 0.005030067 0.0040467456 0.000000e+00 3.782005e-05 0.000000e+00
## CSI076 0.007226687 0.0022258195 0.000000e+00 8.672024e-05 0.000000e+00
##      0tu00129 0tu00130      0tu00131      0tu00132      0tu00133
## CSI001 0.000000e+00      0 0.000000e+00 2.345326e-05 0.000000e+00
## CSI012 0.000000e+00      0 1.724971e-05 0.000000e+00 0.000000e+00
## CSI022 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044 1.971570e-05      0 3.943140e-05 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00      0 2.151417e-05 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076 2.890675e-05      0 0.000000e+00 0.000000e+00 0.000000e+00
##      0tu00134      0tu00135      0tu00136      0tu00137      0tu00138
## CSI001 0.000000e+00 0.000000e+00 6.801445e-04 0.000000e+00 4.690652e-04
## CSI012 3.449941e-05 1.724971e-05 3.622438e-04 0.000000e+00 5.174912e-05
## CSI022 6.454667e-05 1.290933e-04 7.530445e-04 2.151556e-05 4.303111e-04
## CSI044 9.857850e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.971570e-05
## CSI055 8.605667e-05 3.442267e-04 4.302833e-05 2.151417e-05 1.269336e-03
## CSI065 3.782005e-05 3.986234e-02 1.928823e-03 1.134602e-04 7.564010e-05
## CSI076 2.890675e-05 2.052379e-03 2.312540e-04 0.000000e+00 1.364398e-02
##      0tu00139      0tu00140      0tu00141 0tu00142      0tu00143
## CSI001 1.571368e-03 3.283456e-04 0.000000e+00      0 3.283456e-04
## CSI012 1.966467e-03 2.138964e-02 6.899883e-05      0 3.104947e-04

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## CSI022 2.151556e-05 1.075778e-04 0.000000e+00 0 5.163733e-04
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0 5.342955e-03
## CSI055 0.000000e+00 2.151417e-05 0.000000e+00 0 5.593683e-04
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0 8.963352e-03
## CSI076 0.000000e+00 0.000000e+00 0.000000e+00 0 4.220385e-03
##      0tu00144      0tu00145      0tu00146      0tu00147      0tu00148
## CSI001 2.345326e-05 0.000000e+00 1.360289e-03 2.345326e-05 0.000000e+00
## CSI012 1.724971e-05 0.000000e+00 5.778652e-03 3.449941e-05 0.000000e+00
## CSI022 0.000000e+00 0.000000e+00 1.092990e-02 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00 7.886280e-05 0.000000e+00 1.971570e-05
## CSI055 0.000000e+00 0.000000e+00 0.000000e+00 3.399238e-03 2.151417e-05
## CSI065 0.000000e+00 0.000000e+00 1.512802e-04 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00 1.734405e-04 3.474591e-02 0.000000e+00
##      0tu00149      0tu00150      0tu00151 0tu00152      0tu00153
## CSI001 0.0020404334 0.000000e+00 2.345326e-05 0 0.000000e+00
## CSI012 0.0003967433 0.000000e+00 1.379977e-04 0 0.000000e+00
## CSI022 0.0004948578 0.000000e+00 2.151556e-05 0 0.000000e+00
## CSI044 0.0001971570 0.000000e+00 0.000000e+00 0 0.000000e+00
## CSI055 0.0038080076 0.000000e+00 2.151417e-05 0 6.454250e-05
## CSI065 0.0003403805 0.000000e+00 0.000000e+00 0 7.564010e-05
## CSI076 0.0077759149 0.000000e+00 0.000000e+00 0 0.000000e+00
##      0tu00154      0tu00155      0tu00156      0tu00157      0tu00158
## CSI001 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI012 0.000000e+00 0.000000e+00 3.449941e-05 0.000000e+00 1.724971e-05
## CSI022 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00 2.151417e-05 0.000000e+00 0.000000e+00 0.000000e+00
## CSI065 1.134602e-04 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076 3.159507e-02 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##      0tu00159 0tu00160      0tu00161      0tu00162      0tu00163
## CSI001 0 0 0.0022749660 0.000000e+00 0.000000e+00
## CSI012 0 0 0.0061063962 1.724971e-05 1.034982e-04
## CSI022 0 0 0.0010542622 0.000000e+00 0.000000e+00
## CSI044 0 0 0.0002563041 0.000000e+00 0.000000e+00
## CSI055 0 0 0.0032056109 0.000000e+00 0.000000e+00
## CSI065 0 0 0.0026474037 0.000000e+00 0.000000e+00
## CSI076 0 0 0.0070243395 0.000000e+00 0.000000e+00
##      0tu00164      0tu00165      0tu00166      0tu00167      0tu00168
## CSI001 0.000000e+00 0.000000e+00 4.456119e-04 0.00000e+00 0.0023922323
## CSI012 0.000000e+00 0.000000e+00 9.314842e-04 0.00000e+00 0.0006037397
## CSI022 0.000000e+00 0.000000e+00 1.936400e-04 0.00000e+00 0.0037006756
## CSI044 0.000000e+00 0.000000e+00 5.914710e-05 1.97157e-05 0.0002365884
## CSI055 0.000000e+00 0.000000e+00 6.454250e-05 0.00000e+00 0.0045610034
## CSI065 0.000000e+00 3.782005e-05 7.564010e-05 0.00000e+00 0.0484474869
## CSI076 0.000000e+00 0.000000e+00 6.070417e-04 0.00000e+00 0.0075157542
##      0tu00169 0tu00170      0tu00171 0tu00172      0tu00173
## CSI001 0.000000e+00 0 2.110793e-04 0 8.443173e-04
## CSI012 1.724971e-05 0 3.915683e-03 0 1.845719e-03
## CSI022 0.000000e+00 0 1.613667e-03 0 1.510392e-02
## CSI044 0.000000e+00 0 0.000000e+00 0 0.000000e+00
## CSI055 0.000000e+00 0 2.581700e-04 0 0.000000e+00
## CSI065 0.000000e+00 0 1.512802e-04 0 0.000000e+00
## CSI076 0.000000e+00 0 2.890675e-05 0 2.890675e-05
##      0tu00174      0tu00175      0tu00176      0tu00177      0tu00178

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## CSI001 1.172663e-04 0.000000e+00 0.000000e+00 0.000000e+00 2.110793e-04
## CSI012 6.899883e-05 1.724971e-05 0.000000e+00 0.000000e+00 1.897468e-04
## CSI022 0.000000e+00 2.366711e-04 0.000000e+00 0.000000e+00 7.745600e-04
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 1.182942e-04 5.914710e-05
## CSI055 1.269336e-03 0.000000e+00 1.355393e-03 0.000000e+00 1.290850e-04
## CSI065 0.000000e+00 1.096782e-03 0.000000e+00 0.000000e+00 5.673008e-04
## CSI076 2.890675e-05 2.139099e-03 0.000000e+00 2.890675e-05 4.307105e-03
##      0tu00179      0tu00180      0tu00181      0tu00182 0tu00183
## CSI001 2.579858e-04 2.814391e-04 2.345326e-05 0.000000e+00      0
## CSI012 1.724971e-05 0.000000e+00 5.174912e-04 0.000000e+00      0
## CSI022 6.454667e-05 4.303111e-05 4.841000e-03 0.000000e+00      0
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 3.943140e-05      0
## CSI055 0.000000e+00 2.151417e-05 0.000000e+00 2.237473e-03      0
## CSI065 1.512802e-04 0.000000e+00 4.160206e-04 6.353769e-03      0
## CSI076 6.793086e-03 0.000000e+00 0.000000e+00 1.401977e-02      0
##      0tu00184      0tu00185      0tu00186      0tu00187 0tu00188
## CSI001 2.345326e-05 1.172663e-02 3.048923e-04 9.381303e-05      0
## CSI012 2.932450e-04 1.724971e-05 3.622438e-04 0.000000e+00      0
## CSI022 2.216102e-03 1.813761e-02 1.936400e-04 0.000000e+00      0
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI055 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI076 4.653986e-03 0.000000e+00 0.000000e+00 0.000000e+00      0
##      0tu00189      0tu00190      0tu00191      0tu00192      0tu00193
## CSI001      0 7.035977e-05 0.000000e+00 0.000000e+00 0.000000e+00
## CSI012      0 8.624853e-05 0.000000e+00 0.000000e+00 1.379977e-04
## CSI022      0 2.151556e-05 0.000000e+00 0.000000e+00 2.151556e-05
## CSI044      0 2.089864e-03 0.000000e+00 3.94314e-05 0.000000e+00
## CSI055      0 1.505992e-04 0.000000e+00 0.000000e+00 1.011166e-02
## CSI065      0 1.588442e-03 0.000000e+00 0.000000e+00 4.160206e-04
## CSI076      0 2.312540e-04 0.000000e+00 0.000000e+00 2.168006e-03
##      0tu00194      0tu00195      0tu00196      0tu00197 0tu00198 0tu00199
## CSI001      0 5.159717e-04 0.0001172663 0.000000e+00      0      0
## CSI012      0 8.607604e-03 0.0018112192 0.000000e+00      0      0
## CSI022      0 4.582813e-03 0.0003227333 0.000000e+00      0      0
## CSI044      0 0.000000e+00 0.0000985785 1.182942e-04      0      0
## CSI055      0 0.000000e+00 0.0002581700 2.603214e-03      0      0
## CSI065      0 0.000000e+00 0.0001512802 5.370447e-03      0      0
## CSI076      0 7.226687e-04 0.0001156270 1.800890e-02      0      0
##      0tu00200 0tu00201      0tu00202 0tu00203 0tu00204      0tu00205
## CSI001      0      0 0.000000e+00      0      0 5.159717e-03
## CSI012      0      0 0.000000e+00      0      0 1.204030e-02
## CSI022      0      0 0.000000e+00      0      0 6.239511e-03
## CSI044      0      0 0.000000e+00      0      0 0.000000e+00
## CSI055      0      0 0.000000e+00      0      0 5.378542e-04
## CSI065      0      0 0.000000e+00      0      0 3.782005e-05
## CSI076      0      0 0.000000e+00      0      0 2.890675e-05
##      0tu00206      0tu00207      0tu00208      0tu00209      0tu00210
## CSI001 0.0001407195 5.136263e-03 0.001243023 9.146770e-04 0.0000000000
## CSI012 0.0002759953 9.849583e-03 0.001259229 1.379977e-04 0.0000000000
## CSI022 0.0003442489 2.581867e-04 0.003829769 1.161840e-03 0.0000000000
## CSI044 0.0000000000 0.000000e+00 0.0000000000 1.971570e-05 0.0000000000
## CSI055 0.0000645425 0.000000e+00 0.0000000000 5.808825e-04 0.0001936275
## CSI065 0.0000000000 0.000000e+00 0.0000000000 4.311486e-03 0.0000000000

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## CSI076 0.0000000000 2.890675e-05 0.0000000000 2.312540e-04 0.0000000000
##      0tu00211      0tu00212      0tu00213      0tu00214      0tu00215
## CSI001      0 3.072377e-03 0.0022280595 0.000000e+00 1.641728e-04
## CSI012      0 1.880218e-03 0.0093320914 3.449941e-05 1.034982e-04
## CSI022      0 2.732476e-03 0.0040018934 0.000000e+00 2.560351e-03
## CSI044      0 0.000000e+00 0.0000197157 0.000000e+00 8.477751e-04
## CSI055      0 0.000000e+00 0.0000645425 0.000000e+00 8.605667e-05
## CSI065      0 0.000000e+00 0.0000000000 3.782005e-05 7.639651e-03
## CSI076      0 2.890675e-05 0.0000000000 2.601607e-04 5.781349e-04
##      0tu00216      0tu00217      0tu00218      0tu00219      0tu00220
## CSI001 4.690652e-05 0.000000e+00 7.035977e-05 4.456119e-03 0.000000e+00
## CSI012 0.000000e+00 0.000000e+00 2.242462e-04 2.121714e-03 0.000000e+00
## CSI022 6.454667e-05 0.000000e+00 1.075778e-04 1.312449e-03 1.075778e-04
## CSI044 5.914710e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.971570e-05
## CSI055 2.796842e-03 2.151417e-05 0.000000e+00 0.000000e+00 3.399238e-03
## CSI065 7.564010e-03 0.000000e+00 0.000000e+00 0.000000e+00 1.777542e-03
## CSI076 6.937619e-04 0.000000e+00 0.000000e+00 0.000000e+00 2.688327e-03
##      0tu00221      0tu00222      0tu00223      0tu00224 0tu00225
## CSI001 0.0003048923 0.000000e+00 0.000000e+00 0.00000e+00      0
## CSI012 0.0003967433 0.000000e+00 8.624853e-05 0.00000e+00      0
## CSI022 0.0004303111 4.303111e-05 1.290933e-04 0.00000e+00      0
## CSI044 0.0059935727 0.000000e+00 0.000000e+00 1.97157e-05      0
## CSI055 0.0004948258 0.000000e+00 0.000000e+00 0.00000e+00      0
## CSI065 0.0103626943 0.000000e+00 0.000000e+00 0.00000e+00      0
## CSI076 0.0003179742 0.000000e+00 0.000000e+00 0.00000e+00      0
##      0tu00226      0tu00227      0tu00228 0tu00229      0tu00230
## CSI001 0.0026033116 0.000000e+00 7.035977e-05      0 0.0003283456
## CSI012 0.0024494584 1.535224e-03 5.157662e-03      0 0.0000000000
## CSI022 0.0016351822 0.000000e+00 7.143165e-03      0 0.0000000000
## CSI044 0.0001577256 0.000000e+00 0.000000e+00      0 0.0000394314
## CSI055 0.0001075708 0.000000e+00 4.302833e-05      0 0.0000000000
## CSI065 0.0000000000 4.160206e-04 0.000000e+00      0 0.0064294089
## CSI076 0.0001445337 0.000000e+00 0.000000e+00      0 0.0000000000
##      0tu00231      0tu00232      0tu00233      0tu00234      0tu00235
## CSI001 0.0000000000 9.381303e-05 0.000000e+00 2.345326e-05 7.035977e-05
## CSI012 0.0000000000 3.449941e-05 1.724971e-05 3.449941e-05 5.174912e-05
## CSI022 0.0007315289 2.043978e-03 0.000000e+00 0.000000e+00 1.183356e-03
## CSI044 0.0000000000 4.574042e-02 0.000000e+00 0.000000e+00 1.380099e-04
## CSI055 0.0000000000 1.011166e-03 2.151417e-05 1.398421e-03 3.011983e-04
## CSI065 0.0000000000 9.190273e-03 0.000000e+00 7.564010e-05 9.190273e-03
## CSI076 0.0000000000 3.468810e-04 0.000000e+00 1.300804e-03 8.382957e-04
##      0tu00236      0tu00237      0tu00238 0tu00239 0tu00240      0tu00241
## CSI001      0 0.000000e+00 3.494535e-03      0      0 9.475116e-03
## CSI012      0 1.724971e-05 1.379977e-03      0      0 4.916166e-03
## CSI022      0 0.000000e+00 1.622273e-02      0      0 2.710960e-03
## CSI044      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI055      0 0.000000e+00 0.000000e+00      0      0 8.605667e-05
## CSI065      0 0.000000e+00 3.782005e-05      0      0 0.000000e+00
## CSI076      0 0.000000e+00 0.000000e+00      0      0 2.601607e-04
##      0tu00242      0tu00243      0tu00244      0tu00245      0tu00246
## CSI001 0.000000e+00 0.0000000000 0.000000e+00 0.000000e+00 2.345326e-05
## CSI012 6.899883e-05 0.0000000000 1.724971e-05 0.000000e+00 0.000000e+00
## CSI022 1.140324e-03 0.0000000000 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044 1.971570e-05 0.0000000000 0.000000e+00 0.000000e+00 0.000000e+00

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## CSI055 1.204793e-03 0.0003227125 0.000000e+00 2.151417e-05 0.000000e+00
## CSI065 2.344843e-03 0.0001891003 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076 4.971960e-03 0.0007515754 0.000000e+00 0.000000e+00 1.185177e-03
##      0tu00247 0tu00248      0tu00249      0tu00250      0tu00251
## CSI001      0      0 5.159717e-03 0.011069938 0.000000e+00
## CSI012      0      0 1.155730e-03 0.007227627 0.000000e+00
## CSI022      0      0 6.820431e-03 0.006562245 0.000000e+00
## CSI044      0      0 3.943140e-05 0.000000000 0.000000e+00
## CSI055      0      0 2.151417e-05 0.000000000 2.151417e-05
## CSI065      0      0 0.000000e+00 0.000000000 0.000000e+00
## CSI076      0      0 5.492282e-04 0.000000000 0.000000e+00
##      0tu00252      0tu00253 0tu00254      0tu00255      0tu00256
## CSI001 2.345326e-05 3.987054e-04      0 2.345326e-05 0.000000e+00
## CSI012 2.050990e-02 1.535224e-03      0 0.000000e+00 0.000000e+00
## CSI022 1.506089e-03 6.454667e-05      0 0.000000e+00 0.000000e+00
## CSI044 1.971570e-05 1.971570e-05      0 1.971570e-05 0.000000e+00
## CSI055 0.000000e+00 1.957789e-03      0 0.000000e+00 2.151417e-05
## CSI065 1.134602e-04 1.512802e-04      0 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00 1.477135e-02      0 0.000000e+00 0.000000e+00
##      0tu00257      0tu00258      0tu00259      0tu00260      0tu00261
## CSI001 7.035977e-05 0.000000e+00 4.690652e-05 2.345326e-05 0.000000e+00
## CSI012 3.449941e-05 0.000000e+00 0.000000e+00 2.587456e-04 0.000000e+00
## CSI022 2.151556e-05 0.000000e+00 0.000000e+00 4.303111e-05 0.000000e+00
## CSI044 9.069222e-04 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 2.753813e-03 4.302833e-05 1.592048e-03 6.454250e-05 0.000000e+00
## CSI065 1.323702e-03 0.000000e+00 0.000000e+00 0.000000e+00 2.269203e-04
## CSI076 1.185177e-03 2.890675e-04 8.672024e-05 0.000000e+00 8.672024e-05
##      0tu00262      0tu00263 0tu00264      0tu00265      0tu00266
## CSI001 0.000000e+00 2.603312e-03      0 2.368779e-03 0.0000000000
## CSI012 3.449941e-05 3.708687e-03      0 4.691920e-03 0.0000000000
## CSI022 0.000000e+00 2.581867e-04      0 6.024356e-04 0.0000000000
## CSI044 1.971570e-05 0.000000e+00      0 1.182942e-04 0.0000197157
## CSI055 0.000000e+00 2.151417e-05      0 8.605667e-05 0.0009251092
## CSI065 0.000000e+00 0.000000e+00      0 2.004463e-03 0.0009833214
## CSI076 0.000000e+00 0.000000e+00      0 8.325143e-03 0.0004336012
##      0tu00267      0tu00268      0tu00269      0tu00270 0tu00271
## CSI001 1.594822e-03 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI012 7.589871e-04 0.000000e+00 0.000000e+00 1.724971e-05      0
## CSI022 5.120702e-03 0.000000e+00 4.303111e-05 0.000000e+00      0
## CSI044 0.000000e+00 9.857850e-05 0.000000e+00 0.000000e+00      0
## CSI055 1.505992e-04 8.605667e-05 2.151417e-05 2.151417e-05      0
## CSI065 1.891003e-04 7.564010e-05 0.000000e+00 0.000000e+00      0
## CSI076 8.672024e-05 5.781349e-05 0.000000e+00 0.000000e+00      0
##      0tu00272      0tu00273      0tu00274      0tu00275      0tu00276
## CSI001 0.0006566912 7.927201e-03 0.000000e+00 9.146770e-04 0.0017589943
## CSI012 0.0005692403 2.226937e-02 0.000000e+00 1.724971e-05 0.0047781688
## CSI022 0.0003012178 3.657644e-04 2.151556e-05 9.682000e-04 0.0014200267
## CSI044 0.0000000000 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000
## CSI055 0.0014844775 0.000000e+00 0.000000e+00 3.011983e-04 0.0003011983
## CSI065 0.0000000000 0.000000e+00 0.000000e+00 3.782005e-05 0.0001512802
## CSI076 0.0002890675 5.781349e-05 0.000000e+00 2.890675e-04 0.0002312540
##      0tu00277 0tu00278      0tu00279 0tu00280 0tu00281 0tu00282
## CSI001 0.000000e+00      0 0.00000e+00      0      0      0
## CSI012 1.724971e-05      0 0.00000e+00      0      0      0

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## CSI022 0.000000e+00      0 0.00000e+00      0      0      0
## CSI044 0.000000e+00      0 1.97157e-05      0      0      0
## CSI055 0.000000e+00      0 0.00000e+00      0      0      0
## CSI065 0.000000e+00      0 0.00000e+00      0      0      0
## CSI076 0.000000e+00      0 0.00000e+00      0      0      0
##      0tu00283      0tu00284      0tu00285      0tu00286      0tu00287
## CSI001 1.641728e-04 1.993527e-03 0.000000e+00 0.0008912238 4.854824e-03
## CSI012 3.449941e-05 3.622438e-04 0.000000e+00 0.0008107362 3.605189e-03
## CSI022 0.000000e+00 3.722191e-03 0.000000e+00 0.0002151556 1.742760e-03
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0.0005323239 0.000000e+00
## CSI055 2.282653e-02 0.000000e+00 0.000000e+00 0.0004087692 6.239108e-04
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0.0006051208 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00 0.000000e+00 0.0002023472 8.672024e-05
##      0tu00288      0tu00289      0tu00290      0tu00291      0tu00292
## CSI001      0 0.000000e+00 0.0001876261 0.000000e+00 0.000000e+00
## CSI012      0 0.000000e+00 0.0002587456 0.000000e+00 5.174912e-05
## CSI022      0 0.000000e+00 0.0001075778 2.151556e-05 0.000000e+00
## CSI044      0 0.000000e+00 0.0000197157 0.000000e+00 0.000000e+00
## CSI055      0 2.151417e-05 0.0000000000 0.000000e+00 0.000000e+00
## CSI065      0 0.000000e+00 0.0071858099 0.000000e+00 0.000000e+00
## CSI076      0 0.000000e+00 0.0000000000 0.000000e+00 0.000000e+00
##      0tu00293 0tu00294      0tu00295      0tu00296 0tu00297 0tu00298
## CSI001 0.0000000000      0 0.0000000000 0.000000e+00      0      0
## CSI012 0.0000000000      0 0.0000000000 0.000000e+00      0      0
## CSI022 0.0000000000      0 0.0000000000 2.151556e-05      0      0
## CSI044 0.0000000000      0 0.0000000000 0.000000e+00      0      0
## CSI055 0.0000000000      0 0.0001290850 0.000000e+00      0      0
## CSI065 0.0000000000      0 0.0002269203 1.512802e-03      0      0
## CSI076 0.001532058      0 0.0000000000 0.000000e+00      0      0
##      0tu00299      0tu00300      0tu00301 0tu00302      0tu00303
## CSI001 0.000000e+00 0.0060040340 0.000000e+00      0 0.0000000000
## CSI012 1.724971e-05 0.0003449941 0.000000e+00      0 0.0000000000
## CSI022 2.151556e-05 0.0003442489 0.000000e+00      0 0.0001290933
## CSI044 0.000000e+00 0.0000000000 0.000000e+00      0 0.0000000000
## CSI055 0.000000e+00 0.0000000000 0.000000e+00      0 0.0000000000
## CSI065 1.134602e-04 0.0000000000 0.000000e+00      0 0.0000756401
## CSI076 3.121929e-03 0.0000000000 2.890675e-05      0 0.0000000000
##      0tu00304 0tu00305      0tu00306      0tu00307      0tu00308
## CSI001 0.000000e+00      0 1.055397e-03 0.0001641728 6.332380e-04
## CSI012 0.000000e+00      0 5.347409e-04 0.0001379977 1.379977e-04
## CSI022 0.000000e+00      0 2.280649e-03 0.0010757778 2.151556e-05
## CSI044 0.000000e+00      0 0.000000e+00 0.0000394314 0.000000e+00
## CSI055 0.000000e+00      0 0.000000e+00 0.0002151417 0.000000e+00
## CSI065 0.000000e+00      0 0.000000e+00 0.0001134602 0.000000e+00
## CSI076 2.890675e-05      0 0.000000e+00 0.0034977164 0.000000e+00
##      0tu00309      0tu00310      0tu00311      0tu00312      0tu00313
## CSI001 0.000000e+00 0.0032600028 9.381303e-05 0.000000e+00 1.261785e-02
## CSI012 0.000000e+00 0.0012074795 0.000000e+00 1.034982e-04 3.674188e-03
## CSI022 0.000000e+00 0.0014845733 8.606222e-05 0.000000e+00 6.669822e-04
## CSI044 0.000000e+00 0.0000788628 5.914710e-05 5.745155e-02 0.000000e+00
## CSI055 2.151417e-05 0.0001721133 0.000000e+00 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00 0.0003782005 7.564010e-05 1.058961e-03 3.782005e-05
## CSI076 0.000000e+00 0.0001734405 2.890675e-05 0.000000e+00 2.601607e-04
##      0tu00314      0tu00315      0tu00316 0tu00317      0tu00318

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##	CSI001	0	7.739575e-04	1.172663e-04	0	2.579858e-03
##	CSI012	0	5.002415e-04	1.724971e-05	0	5.864900e-04
##	CSI022	0	4.303111e-05	4.303111e-05	0	3.442489e-04
##	CSI044	0	1.813844e-03	5.323239e-04	0	0.000000e+00
##	CSI055	0	8.820809e-04	2.000818e-03	0	0.000000e+00
##	CSI065	0	1.096782e-03	1.248062e-03	0	0.000000e+00
##	CSI076	0	2.890675e-04	5.405562e-03	0	2.890675e-05
##		0tu00319	0tu00320	0tu00321	0tu00322	0tu00323
##	CSI001	0.000000e+00	0.000000e+00	0	0.0044795722	0.000000e+00
##	CSI012	3.449941e-05	1.724971e-05	0	0.0011384806	0.000000e+00
##	CSI022	0.000000e+00	0.000000e+00	0	0.0003872800	4.303111e-05
##	CSI044	0.000000e+00	0.000000e+00	0	0.0000000000	0.000000e+00
##	CSI055	0.000000e+00	0.000000e+00	0	0.0002151417	2.151417e-05
##	CSI065	0.000000e+00	0.000000e+00	0	0.0000000000	0.000000e+00
##	CSI076	0.000000e+00	0.000000e+00	0	0.0001445337	0.000000e+00
##		0tu00324	0tu00325	0tu00326	0tu00327	0tu00328
##	CSI001	4.690652e-05	0.0006801445	7.974108e-04	0.000000e+00	0.000000e+00
##	CSI012	3.449941e-05	0.0004484924	8.797350e-04	0.000000e+00	1.724971e-05
##	CSI022	8.821378e-04	0.0000000000	2.151556e-05	0.000000e+00	0.000000e+00
##	CSI044	0.000000e+00	0.0000000000	1.971570e-05	0.000000e+00	1.971570e-05
##	CSI055	0.000000e+00	0.0000000000	3.227125e-04	2.151417e-05	4.302833e-05
##	CSI065	0.000000e+00	0.0000000000	2.496123e-03	0.000000e+00	7.564010e-05
##	CSI076	0.000000e+00	0.0000000000	6.937619e-04	0.000000e+00	3.179742e-04
##		0tu00329	0tu00330	0tu00331	0tu00332	0tu00333
##	CSI001	8.208640e-04	6.332380e-04	0.0016886346	0.0050659037	1.730850e-02
##	CSI012	3.605189e-03	4.829918e-04	0.0004312427	0.0032429449	7.331125e-03
##	CSI022	7.422867e-03	1.721244e-04	0.0038082534	0.0004733422	0.000000e+00
##	CSI044	0.000000e+00	0.000000e+00	0.0000000000	0.0000000000	3.943140e-05
##	CSI055	0.000000e+00	0.000000e+00	0.0000000000	0.0000645425	2.151417e-05
##	CSI065	0.000000e+00	0.000000e+00	0.0000000000	0.0000000000	8.320411e-04
##	CSI076	0.000000e+00	5.781349e-05	0.0000000000	0.0000000000	2.890675e-04
##		0tu00334	0tu00335	0tu00336	0tu00337	0tu00338
##	CSI001	0	2.345326e-05	0.000000e+00	0	0.000000e+00
##	CSI012	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI022	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI044	0	0.000000e+00	5.469135e-02	0	0.000000e+00
##	CSI055	0	0.000000e+00	0.000000e+00	0	2.151417e-05
##	CSI065	0	1.573314e-02	3.782005e-05	0	0.000000e+00
##	CSI076	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##		0tu00339	0tu00340	0tu00341	0tu00342	0tu00343
##	CSI001	0.0000000000	0	0.0000000000	5.394249e-04	5.628782e-04
##	CSI012	0.0000000000	0	0.0000000000	3.104947e-04	1.036707e-02
##	CSI022	0.0000000000	0	0.0000000000	7.745600e-04	7.336805e-03
##	CSI044	0.0000394314	0	0.0000000000	0.000000e+00	0.000000e+00
##	CSI055	0.0000000000	0	0.0000000000	4.302833e-05	0.000000e+00
##	CSI065	0.0000000000	0	0.0027230438	0.000000e+00	0.000000e+00
##	CSI076	0.0000000000	0	0.0000000000	0.000000e+00	0.000000e+00
##		0tu00344	0tu00345	0tu00346	0tu00347	0tu00348
##	CSI001	0	0.000000e+00	2.345326e-05	2.345326e-05	0
##	CSI012	0	3.449941e-05	3.449941e-05	0.000000e+00	0
##	CSI022	0	0.000000e+00	0.000000e+00	0.000000e+00	0
##	CSI044	0	0.000000e+00	2.290964e-02	1.971570e-05	0
##	CSI055	0	0.000000e+00	1.505992e-03	1.936275e-04	0
##	CSI065	0	0.000000e+00	1.891003e-04	0.000000e+00	0

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## CSI076      0 4.914147e-04 2.312540e-04 0.000000e+00      0
##      0tu00349 0tu00350      0tu00351 0tu00352      0tu00353
## CSI001 4.690652e-04      0 0.0017120878      0 0.000000e+00
## CSI012 9.832333e-04      0 0.0021389636      0 1.724971e-05
## CSI022 4.518267e-04      0 0.0027109600      0 0.000000e+00
## CSI044 7.886280e-05      0 0.0000000000      0 0.000000e+00
## CSI055 4.302833e-05      0 0.0001936275      0 0.000000e+00
## CSI065 1.512802e-04      0 0.0004538406      0 0.000000e+00
## CSI076 2.890675e-05      0 0.0010695496      0 0.000000e+00
##      0tu00354 0tu00355      0tu00356 0tu00357 0tu00358 0tu00359
## CSI001 0.000000e+00      0 0.000000e+00      0      0      0
## CSI012 1.724971e-05      0 1.724971e-05      0      0      0
## CSI022 4.303111e-05      0 0.000000e+00      0      0      0
## CSI044 0.000000e+00      0 0.000000e+00      0      0      0
## CSI055 0.000000e+00      0 0.000000e+00      0      0      0
## CSI065 3.782005e-05      0 0.000000e+00      0      0      0
## CSI076 8.672024e-05      0 0.000000e+00      0      0      0
##      0tu00360 0tu00361 0tu00362      0tu00363 0tu00364      0tu00365
## CSI001 0.000000e+00      0      0 1.970074e-03      0 2.251513e-03
## CSI012 0.000000e+00      0      0 9.314842e-04      0 4.191679e-03
## CSI022 0.000000e+00      0      0 4.303111e-05      0 6.368605e-03
## CSI044 3.943140e-05      0      0 1.971570e-05      0 0.000000e+00
## CSI055 0.000000e+00      0      0 8.605667e-05      0 2.151417e-05
## CSI065 3.782005e-05      0      0 3.782005e-05      0 0.000000e+00
## CSI076 0.000000e+00      0      0 8.672024e-05      0 0.000000e+00
##      0tu00366 0tu00367 0tu00368      0tu00369      0tu00370
## CSI001 0.000000e+00      0      0 0.0000000000 0.0000000000
## CSI012 1.724971e-05      0      0 0.0000000000 0.0000000000
## CSI022 0.000000e+00      0      0 0.0000000000 0.0031412711
## CSI044 0.000000e+00      0      0 0.0000000000 0.0001774413
## CSI055 0.000000e+00      0      0 0.0041737484 0.0002151417
## CSI065 0.000000e+00      0      0 0.0006429409 0.0002647404
## CSI076 0.000000e+00      0      0 0.0018500318 0.0001734405
##      0tu00371 0tu00372 0tu00373      0tu00374      0tu00375
## CSI001 0.000000e+00      0      0 0.000000e+00 1.407195e-04
## CSI012 1.724971e-05      0      0 0.000000e+00 5.174912e-05
## CSI022 0.000000e+00      0      0 0.000000e+00 4.303111e-05
## CSI044 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00      0      0 0.000000e+00 9.466234e-04
## CSI065 0.000000e+00      0      0 7.564010e-05 2.647404e-04
## CSI076 0.000000e+00      0      0 0.000000e+00 5.058681e-03
##      0tu00376 0tu00377 0tu00378 0tu00379      0tu00380 0tu00381
## CSI001 7.035977e-05      0      0      0 0.000000e+00      0
## CSI012 1.017733e-03      0      0      0 0.000000e+00      0
## CSI022 1.506089e-04      0      0      0 0.000000e+00      0
## CSI044 0.000000e+00      0      0      0 0.000000e+00      0
## CSI055 1.333878e-03      0      0      0 0.000000e+00      0
## CSI065 2.685224e-03      0      0      0 0.000000e+00      0
## CSI076 2.890675e-03      0      0      0 0.000000e+00      0
##      0tu00382      0tu00383 0tu00384      0tu00385      0tu00386
## CSI001 0.0003048923 9.381303e-05      0 0.0000000000 0.000000e+00
## CSI012 0.0004139930 0.000000e+00      0 0.0000000000 0.000000e+00
## CSI022 0.0001290933 5.163733e-04      0 0.0000000000 4.303111e-05
## CSI044 0.0000000000 0.000000e+00      0 0.0000394314 0.000000e+00

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## CSI055 0.0030550117 0.000000e+00      0 0.0023020159 3.463781e-03
## CSI065 0.0003403805 0.000000e+00      0 0.0000756401 1.134602e-04
## CSI076 0.0051743077 0.000000e+00      0 0.0005203214 3.350292e-02
##      0tu00387      0tu00388      0tu00389      0tu00390 0tu00391
## CSI001 3.353816e-03 1.196116e-03 2.392232e-03 0.000000e+00      0
## CSI012 2.121714e-03 2.242462e-04 2.828952e-03 0.000000e+00      0
## CSI022 3.334911e-03 5.594044e-04 3.012178e-04 0.000000e+00      0
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 3.943140e-05      0
## CSI055 0.000000e+00 2.151417e-05 8.605667e-05 2.151417e-05      0
## CSI065 1.512802e-04 9.833214e-04 1.134602e-04 3.895465e-03      0
## CSI076 2.890675e-05 2.890675e-05 4.046945e-04 8.382957e-04      0
##      0tu00392      0tu00393      0tu00394      0tu00395      0tu00396
## CSI001      0 4.690652e-05 0.0000000000 0.000000e+00 0.0002579858
## CSI012      0 0.000000e+00 0.0000000000 2.587456e-04 0.0018802180
## CSI022      0 2.280649e-03 0.0000000000 8.606222e-05 0.0001075778
## CSI044      0 0.000000e+00 0.0000000000 0.000000e+00 0.0000000000
## CSI055      0 0.000000e+00 0.0000000000 0.000000e+00 0.0000000000
## CSI065      0 2.533943e-03 0.0007942211 2.269203e-04 0.0000000000
## CSI076      0 5.492282e-04 0.0000000000 0.000000e+00 0.0000000000
##      0tu00397 0tu00398      0tu00399 0tu00400      0tu00401
## CSI001 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI012 0.000000e+00      0 6.899883e-04      0 0.000000e+00
## CSI022 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI044 1.971570e-05      0 0.000000e+00      0 0.000000e+00
## CSI055 2.431101e-03      0 2.796842e-04      0 2.581700e-04
## CSI065 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI076 1.647685e-03      0 2.890675e-05      0 5.781349e-05
##      0tu00402      0tu00403      0tu00404      0tu00405      0tu00406
## CSI001 0.000000e+00 0.000000e+00 3.330363e-03 0.0000000000 0.0000000000
## CSI012 0.000000e+00 2.242462e-04 5.243911e-03 0.0000000000 0.0000000000
## CSI022 2.151556e-05 4.303111e-04 9.036533e-04 0.0002151556 0.0000000000
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000 0.0000000000
## CSI055 0.000000e+00 1.290850e-04 0.000000e+00 0.0000000000 0.0000000000
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0.0000756401 0.004538406
## CSI076 0.000000e+00 8.672024e-05 0.000000e+00 0.0000000000 0.0000000000
##      0tu00407      0tu00408      0tu00409      0tu00410      0tu00411
## CSI001      0 0.0000000000 1.172663e-04 0.000000e+00 0.000000e+00
## CSI012      0 0.0000000000 3.277444e-04 1.724971e-05 0.000000e+00
## CSI022      0 0.0000000000 1.075778e-04 0.000000e+00 6.454667e-05
## CSI044      0 0.0000000000 3.943140e-05 4.751484e-03 0.000000e+00
## CSI055      0 0.001828704 4.302833e-05 3.657408e-04 0.000000e+00
## CSI065      0 0.0000000000 0.000000e+00 7.790931e-03 0.000000e+00
## CSI076      0 0.0000000000 2.890675e-05 0.000000e+00 5.781349e-05
##      0tu00412 0tu00413      0tu00414      0tu00415      0tu00416
## CSI001 9.381303e-05      0 3.752521e-04 2.345326e-05 0.000000e+00
## CSI012 0.000000e+00      0 1.379977e-04 0.000000e+00 0.000000e+00
## CSI022 0.000000e+00      0 4.303111e-05 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00      0 2.563041e-04 0.000000e+00 2.740482e-03
## CSI055 7.099675e-04      0 1.075708e-04 0.000000e+00 2.151417e-04
## CSI065 0.000000e+00      0 2.647404e-03 8.320411e-04 1.323702e-03
## CSI076 1.156270e-04      0 1.156270e-04 0.000000e+00 1.127363e-03
##      0tu00417      0tu00418      0tu00419 0tu00420 0tu00421 0tu00422
## CSI001      0 0.000000e+00 2.345326e-05      0      0      0
## CSI012      0 0.000000e+00 0.000000e+00      0      0      0

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## CSI022      0 2.151556e-05 1.075778e-04      0      0      0
## CSI044      0 0.000000e+00 0.000000e+00      0      0      0
## CSI055      0 2.151417e-05 0.000000e+00      0      0      0
## CSI065      0 0.000000e+00 0.000000e+00      0      0      0
## CSI076      0 0.000000e+00 0.000000e+00      0      0      0
##      0tu00423      0tu00424      0tu00425 0tu00426      0tu00427
## CSI001 0.000000e+00 4.761011e-03 0.0014306487      0 0.0000000000
## CSI012 0.000000e+00 2.000966e-03 0.0002932450      0 0.0000000000
## CSI022 0.000000e+00 4.303111e-05 0.0000000000      0 0.0005378889
## CSI044 0.000000e+00 0.000000e+00 0.0000000000      0 0.0000000000
## CSI055 0.000000e+00 0.000000e+00 0.0019793034      0 0.0000000000
## CSI065 3.782005e-05 0.000000e+00 0.0000756401      0 0.0006807609
## CSI076 0.000000e+00 8.672024e-05 0.0026594207      0 0.0000000000
##      0tu00428      0tu00429      0tu00430      0tu00431      0tu00432
## CSI001 3.752521e-04 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000
## CSI012 1.034982e-04 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000
## CSI022 4.303111e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000
## CSI044 0.000000e+00 1.97157e-05 0.000000e+00 0.000000e+00 0.0000000000
## CSI055 6.454250e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.0438028442
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 3.782005e-05 0.0000000000
## CSI076 1.445337e-04 0.000000e+00 0.000000e+00 0.000000e+00 0.0001734405
##      0tu00433      0tu00434      0tu00435      0tu00436 0tu00437
## CSI001      0 0.000000e+00 0.000000e+00 0.00000e+00      0
## CSI012      0 0.000000e+00 1.724971e-05 0.00000e+00      0
## CSI022      0 0.000000e+00 0.000000e+00 0.00000e+00      0
## CSI044      0 0.000000e+00 0.000000e+00 0.00000e+00      0
## CSI055      0 0.000000e+00 0.000000e+00 0.00000e+00      0
## CSI065      0 0.000000e+00 0.000000e+00 0.00000e+00      0
## CSI076      0 0.000000e+00 0.000000e+00 0.00000e+00      0
##      0tu00438      0tu00439 0tu00440      0tu00441      0tu00442
## CSI001 2.345326e-05 0.000000e+00      0 1.078850e-03 0.000000e+00
## CSI012 0.000000e+00 0.000000e+00      0 5.519906e-04 1.724971e-05
## CSI022 5.378889e-04 0.000000e+00      0 2.151556e-05 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0 0.000000e+00 3.943140e-05
## CSI055 0.000000e+00 0.000000e+00      0 7.960242e-04 2.151417e-04
## CSI065 0.000000e+00 0.000000e+00      0 5.673008e-04 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00      0 6.359484e-04 1.425103e-02
##      0tu00443      0tu00444      0tu00445 0tu00446      0tu00447
## CSI001 1.899714e-03 0.000000e+00 0.0000000000      0 4.690652e-05
## CSI012 2.604706e-03 0.000000e+00 0.0000000000      0 0.000000e+00
## CSI022 1.463058e-03 0.000000e+00 0.0000000000      0 2.345196e-03
## CSI044 0.000000e+00 1.97157e-05 0.0000000000      0 9.660693e-04
## CSI055 0.000000e+00 0.000000e+00 0.0000000000      0 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00 0.0000000000      0 3.782005e-05
## CSI076 4.914147e-04 0.000000e+00 0.0000000000      0 0.000000e+00
##      0tu00448      0tu00449      0tu00450      0tu00451      0tu00452
## CSI001 1.641728e-04 2.345326e-05 9.381303e-05 0.0027674844 0.000000e+00
## CSI012 5.174912e-05 2.587456e-04 0.000000e+00 0.0024667081 8.624853e-05
## CSI022 0.000000e+00 1.979431e-03 1.721244e-04 0.0007315289 4.948578e-04
## CSI044 5.717553e-04 0.000000e+00 0.000000e+00 0.0023461683 0.000000e+00
## CSI055 6.669392e-04 0.000000e+00 0.000000e+00 0.0004517975 0.000000e+00
## CSI065 1.588442e-03 0.000000e+00 1.134602e-04 0.0004160206 0.000000e+00
## CSI076 5.781349e-05 0.000000e+00 0.000000e+00 0.0002601607 0.000000e+00
##      0tu00453      0tu00454 0tu00455 0tu00456      0tu00457

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##	CSI001	1.665181e-03	0.000000e+00	0	0	0.000000e+00
##	CSI012	3.277444e-04	1.034982e-04	0	0	0.000000e+00
##	CSI022	6.454667e-05	2.151556e-05	0	0	0.000000e+00
##	CSI044	3.943140e-05	0.000000e+00	0	0	0.000000e+00
##	CSI055	3.657408e-04	2.151417e-05	0	0	0.000000e+00
##	CSI065	4.916607e-04	7.564010e-05	0	0	0.000000e+00
##	CSI076	3.035208e-03	0.000000e+00	0	0	2.890675e-05
##		0tu00458	0tu00459	0tu00460	0tu00461	0tu00462
##	CSI001	0.0021811530	0.000000e+00	0.000000e+00	0.0008677705	0
##	CSI012	0.0030359484	0.000000e+00	0.000000e+00	0.0005347409	0
##	CSI022	0.0009251689	0.000000e+00	0.000000e+00	0.0001290933	0
##	CSI044	0.0000000000	0.000000e+00	0.000000e+00	0.0010055007	0
##	CSI055	0.0000000000	0.000000e+00	5.378542e-04	0.0002796842	0
##	CSI065	0.0000000000	0.000000e+00	0.000000e+00	0.0003782005	0
##	CSI076	0.0000000000	0.000000e+00	6.359484e-04	0.0002023472	0
##		0tu00463	0tu00464	0tu00465	0tu00466	0tu00467
##	CSI001	5.159717e-04	2.345326e-05	0.000000e+00	0.000000e+00	2.814391e-04
##	CSI012	8.624853e-05	5.174912e-05	0.000000e+00	9.832333e-04	1.724971e-04
##	CSI022	0.000000e+00	8.391067e-04	0.000000e+00	1.936400e-04	2.151556e-05
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.380099e-04
##	CSI055	1.036983e-02	0.000000e+00	2.366558e-04	1.505992e-04	0.000000e+00
##	CSI065	4.235846e-03	0.000000e+00	0.000000e+00	0.000000e+00	1.134602e-04
##	CSI076	2.081286e-03	0.000000e+00	5.781349e-05	5.781349e-05	0.000000e+00
##		0tu00468	0tu00469	0tu00470	0tu00471	0tu00472
##	CSI001	0.0004221586	0.000000e+00	2.345326e-05	0.000000e+00	0.0000000000
##	CSI012	0.0010349824	1.724971e-05	0.000000e+00	0.000000e+00	0.0000000000
##	CSI022	0.0004733422	4.303111e-05	0.000000e+00	2.151556e-05	0.0000000000
##	CSI044	0.0000000000	0.000000e+00	0.000000e+00	0.000000e+00	0.0000000000
##	CSI055	0.0000000000	1.721133e-04	0.000000e+00	0.000000e+00	0.0000000000
##	CSI065	0.0000000000	0.000000e+00	0.000000e+00	0.000000e+00	0.0000000000
##	CSI076	0.0000000000	2.890675e-05	0.000000e+00	0.000000e+00	0.0001734405
##		0tu00473	0tu00474	0tu00475	0tu00476	0tu00477
##	CSI001	0.000000e+00	0	0	2.345326e-05	0.0014071955
##	CSI012	5.174912e-05	0	0	0.000000e+00	0.0031394466
##	CSI022	0.000000e+00	0	0	8.154396e-03	0.0015706356
##	CSI044	0.000000e+00	0	0	0.000000e+00	0.0000000000
##	CSI055	2.151417e-04	0	0	0.000000e+00	0.0000000000
##	CSI065	0.000000e+00	0	0	0.000000e+00	0.0000000000
##	CSI076	4.046945e-04	0	0	0.000000e+00	0.0006070417
##		0tu00479	0tu00480	0tu00481	0tu00482	0tu00483
##	CSI001	0	0	9.381303e-05	4.221586e-04	2.345326e-05
##	CSI012	0	0	5.692403e-04	3.277444e-04	0.000000e+00
##	CSI022	0	0	4.087956e-04	1.721244e-04	6.454667e-05
##	CSI044	0	0	1.971570e-05	1.971570e-05	0.000000e+00
##	CSI055	0	0	0.000000e+00	0.000000e+00	2.151417e-05
##	CSI065	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI076	0	0	2.890675e-05	2.890675e-05	2.601607e-04
##		0tu00485	0tu00486	0tu00487	0tu00488	0tu00489
##	CSI001	0.000000e+00	0	1.876261e-04	0	3.987054e-04
##	CSI012	0.000000e+00	0	3.794935e-04	0	5.174912e-05
##	CSI022	0.000000e+00	0	4.733422e-04	0	8.606222e-05
##	CSI044	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI055	2.151417e-05	0	8.605667e-05	0	8.218412e-03
##	CSI065	0.000000e+00	0	4.538406e-04	0	0.000000e+00

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## CSI076 0.000000e+00      0 6.070417e-04      0 5.087587e-03
##      0tu00490      0tu00491      0tu00492      0tu00493      0tu00494
## CSI001 0.000000e+00 2.345326e-05 7.035977e-05 3.564895e-03 1.970074e-03
## CSI012 0.000000e+00 1.207479e-04 1.673222e-03 8.279859e-04 2.587456e-04
## CSI022 0.000000e+00 4.733422e-04 6.024356e-04 1.785791e-03 2.581867e-04
## CSI044 0.000000e+00 0.000000e+00 1.971570e-05 9.660693e-04 0.000000e+00
## CSI055 1.252125e-02 2.151417e-05 8.605667e-05 0.000000e+00 0.000000e+00
## CSI065 3.782005e-05 0.000000e+00 0.000000e+00 2.307023e-03 0.000000e+00
## CSI076 4.191478e-03 0.000000e+00 0.000000e+00 5.781349e-05 4.046945e-04
##      0tu00495      0tu00496      0tu00497      0tu00498      0tu00499
## CSI001      0 2.345326e-05 3.283456e-04 2.345326e-05 2.228059e-03
## CSI012      0 1.241979e-03 1.431726e-03 0.000000e+00 4.519423e-03
## CSI022      0 4.518267e-04 1.118809e-03 2.151556e-04 3.872800e-04
## CSI044      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055      0 2.151417e-05 8.605667e-05 0.000000e+00 6.454250e-05
## CSI065      0 0.000000e+00 7.564010e-05 2.662532e-02 0.000000e+00
## CSI076      0 0.000000e+00 8.672024e-05 0.000000e+00 1.069550e-03
##      0tu00500 0tu00501      0tu00502      0tu00503      0tu00504
## CSI001 4.925184e-04      0 0.0023922323 1.899714e-03 0.000000e+00
## CSI012 3.449941e-05      0 0.0004657421 4.312427e-04 1.724971e-05
## CSI022 6.454667e-05      0 0.0001936400 1.506089e-04 0.000000e+00
## CSI044 1.971570e-05      0 0.0000197157 0.000000e+00 0.000000e+00
## CSI055 1.075708e-04      0 0.0003872550 0.000000e+00 0.000000e+00
## CSI065 1.134602e-04      0 0.0006429409 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00      0 0.0002023472 0.000000e+00 0.000000e+00
##      0tu00505      0tu00506 0tu00507      0tu00508      0tu00509
## CSI001 2.345326e-05 0.000000e+00      0 0.000000e+00 2.345326e-05
## CSI012 0.000000e+00 0.000000e+00      0 3.449941e-05 1.724971e-05
## CSI022 2.151556e-05 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0 0.000000e+00 5.914710e-05
## CSI055 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00      0 0.000000e+00 6.278129e-03
## CSI076 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
##      0tu00510      0tu00511      0tu00512 0tu00513 0tu00514 0tu00515
## CSI001      0 0.0011023031 7.035977e-04      0      0      0
## CSI012      0 0.0003622438 6.554889e-04      0      0      0
## CSI022      0 0.0000000000 1.290933e-04      0      0      0
## CSI044      0 0.0000000000 0.000000e+00      0      0      0
## CSI055      0 0.0000000000 6.454250e-05      0      0      0
## CSI065      0 0.0000000000 7.564010e-05      0      0      0
## CSI076      0 0.0000000000 2.890675e-05      0      0      0
##      0tu00516      0tu00517      0tu00518 0tu00519      0tu00520
## CSI001 0.0000000000 2.345326e-05 0.000000e+00      0 0.000000e+00
## CSI012 0.0000000000 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI022 0.0000000000 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI044 0.0000197157 0.000000e+00 1.971570e-05      0 0.000000e+00
## CSI055 0.0007529958 2.151417e-05 6.454250e-05      0 2.151417e-05
## CSI065 0.0007185810 7.185810e-04 3.782005e-05      0 0.000000e+00
## CSI076 0.0000000000 2.659421e-03 4.914147e-04      0 0.000000e+00
##      0tu00521 0tu00522      0tu00523 0tu00524 0tu00525      0tu00526
## CSI001 0.0007974108      0 1.641728e-04      0      0 0.000000e+00
## CSI012 0.0007072380      0 8.624853e-05      0      0 0.000000e+00
## CSI022 0.0003872800      0 0.000000e+00      0      0 0.000000e+00
## CSI044 0.0000985785      0 0.000000e+00      0      0 1.380099e-04

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## CSI055 0.0010757084      0 0.000000e+00      0      0 2.581700e-04
## CSI065 0.0002647404      0 0.000000e+00      0      0 3.782005e-05
## CSI076 0.0003468810      0 8.672024e-05      0      0 0.000000e+00
##      0tu00527 0tu00528 0tu00529      0tu00530      0tu00531 0tu00532
## CSI001 4.315399e-03      0      0 0.0000000000 7.270510e-04      0
## CSI012 3.794935e-03      0      0 0.0001379977 1.552474e-03      0
## CSI022 2.366711e-04      0      0 0.0000000000 4.087956e-04      0
## CSI044 0.000000e+00      0      0 0.0000000000 0.000000e+00      0
## CSI055 0.000000e+00      0      0 0.0000000000 1.075708e-04      0
## CSI065 0.000000e+00      0      0 0.0000000000 3.782005e-05      0
## CSI076 8.672024e-05      0      0 0.0002890675 2.890675e-04      0
##      0tu00533 0tu00534 0tu00535      0tu00536      0tu00537 0tu00538
## CSI001 2.345326e-05      0      0 1.172663e-04 1.407195e-04      0
## CSI012 0.000000e+00      0      0 8.624853e-05 3.967433e-04      0
## CSI022 4.389173e-03      0      0 0.000000e+00 1.075778e-04      0
## CSI044 0.000000e+00      0      0 0.000000e+00 1.182942e-04      0
## CSI055 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI065 0.000000e+00      0      0 0.000000e+00 3.782005e-05      0
## CSI076 0.000000e+00      0      0 5.781349e-05 2.890675e-05      0
##      0tu00539      0tu00540      0tu00541      0tu00542      0tu00543
## CSI001 4.690652e-05 2.368779e-03 0.000000e+00 2.650218e-03 0.0007974108
## CSI012 0.000000e+00 3.087698e-03 0.000000e+00 5.347409e-04 0.0014317257
## CSI022 4.303111e-05 1.247902e-03 2.151556e-05 6.454667e-05 0.0024527734
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.0000197157
## CSI055 9.466234e-04 0.000000e+00 0.000000e+00 0.000000e+00 0.0001721133
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000
## CSI076 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000
##      0tu00544 0tu00545      0tu00546 0tu00547      0tu00548
## CSI001 0.000000e+00      0 0.0000000000      0 2.345326e-05
## CSI012 1.724971e-05      0 0.0001034982      0 0.000000e+00
## CSI022 0.000000e+00      0 0.0000000000      0 7.530445e-04
## CSI044 0.000000e+00      0 0.0261627334      0 0.000000e+00
## CSI055 4.087692e-04      0 0.0000000000      0 0.000000e+00
## CSI065 1.474982e-03      0 0.0012858818      0 3.782005e-05
## CSI076 4.625079e-04      0 0.0000000000      0 1.445337e-04
##      0tu00549      0tu00550      0tu00551      0tu00552 0tu00553
## CSI001 4.690652e-05 3.048923e-03 0.0014071955 4.690652e-05      0
## CSI012 6.727386e-04 1.379977e-03 0.0025874560 1.724971e-05      0
## CSI022 8.606222e-05 5.594044e-04 0.0008391067 4.303111e-05      0
## CSI044 0.000000e+00 0.000000e+00 0.0000000000 1.971570e-05      0
## CSI055 9.035950e-04 6.454250e-05 0.0000000000 5.206428e-03      0
## CSI065 0.000000e+00 3.782005e-05 0.0000000000 5.294807e-04      0
## CSI076 6.070417e-04 5.781349e-05 0.0000000000 1.300804e-03      0
##      0tu00554      0tu00555      0tu00556 0tu00557 0tu00558
## CSI001 0.0011023031 4.690652e-05 0.000000e+00      0      0
## CSI012 0.0002932450 1.379977e-04 1.724971e-05      0      0
## CSI022 0.0001290933 2.151556e-05 0.000000e+00      0      0
## CSI044 0.0000197157 0.000000e+00 0.000000e+00      0      0
## CSI055 0.0003227125 7.099675e-04 0.000000e+00      0      0
## CSI065 0.0006807609 3.403805e-04 0.000000e+00      0      0
## CSI076 0.0007804822 2.312540e-04 0.000000e+00      0      0
##      0tu00559      0tu00560 0tu00561      0tu00562      0tu00563
## CSI001 1.360289e-03 2.345326e-05      0 0.000000e+00 8.443173e-04
## CSI012 0.000000e+00 0.000000e+00      0 0.000000e+00 2.759953e-04

```

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## CSI022 6.454667e-05 7.702569e-03      0 0.000000e+00 8.606222e-05
## CSI044 0.000000e+00 0.000000e+00      0 0.000000e+00 5.914710e-05
## CSI055 2.151417e-05 0.000000e+00      0 0.000000e+00 8.605667e-04
## CSI065 7.564010e-05 0.000000e+00      0 0.000000e+00 4.916607e-04
## CSI076 3.179742e-04 0.000000e+00      0 0.000000e+00 2.890675e-04
##      0tu00564      0tu00565      0tu00566 0tu00567 0tu00568
## CSI001 3.048923e-04 2.345326e-05 3.048923e-04      0      0
## CSI012 1.207479e-04 0.000000e+00 3.449941e-05      0      0
## CSI022 4.303111e-05 0.000000e+00 2.151556e-05      0      0
## CSI044 0.000000e+00 9.857850e-05 0.000000e+00      0      0
## CSI055 0.000000e+00 3.872550e-04 1.721133e-04      0      0
## CSI065 0.000000e+00 6.807609e-04 3.782005e-05      0      0
## CSI076 6.648552e-04 5.492282e-04 3.179742e-04      0      0
##      0tu00569 0tu00570      0tu00571 0tu00572 0tu00573 0tu00574
## CSI001 0.0001876261      0 2.345326e-05      0      0      0
## CSI012 0.0005347409      0 0.000000e+00      0      0      0
## CSI022 0.0004518267      0 0.000000e+00      0      0      0
## CSI044 0.0000000000      0 5.914710e-05      0      0      0
## CSI055 0.0001721133      0 1.678105e-03      0      0      0
## CSI065 0.0000756401      0 7.564010e-05      0      0      0
## CSI076 0.0001445337      0 2.283633e-03      0      0      0
##      0tu00575 0tu00576      0tu00577      0tu00578 0tu00579      0tu00580
## CSI001      0      0 0.0003752521 0.0000000000      0 0.000000e+00
## CSI012      0      0 0.0007072380 0.0000000000      0 0.000000e+00
## CSI022      0      0 0.0008606222 0.0000000000      0 0.000000e+00
## CSI044      0      0 0.0000000000 0.0000394314      0 0.000000e+00
## CSI055      0      0 0.0001721133 0.0020008175      0 0.000000e+00
## CSI065      0      0 0.0000000000 0.0002269203      0 7.564010e-05
## CSI076      0      0 0.0001734405 0.0013297104      0 2.023472e-04
##      0tu00581      0tu00582      0tu00583      0tu00584      0tu00585
## CSI001      0 0.000000e+00 1.172663e-04 0.000000e+00 2.345326e-05
## CSI012      0 0.000000e+00 1.724971e-05 0.000000e+00 0.000000e+00
## CSI022      0 2.151556e-05 6.454667e-05 0.000000e+00 0.000000e+00
## CSI044      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055      0 1.097223e-03 6.023967e-04 0.000000e+00 1.505992e-04
## CSI065      0 1.096782e-03 1.134602e-04 0.000000e+00 0.000000e+00
## CSI076      0 2.196913e-03 4.336012e-04 0.000000e+00 0.000000e+00
##      0tu00586      0tu00587      0tu00588      0tu00589      0tu00590
## CSI001      0 0.000000e+00 0.0020638867 0.000000e+00 0.000000e+00
## CSI012      0 0.000000e+00 0.0007244877 0.000000e+00 0.000000e+00
## CSI022      0 0.000000e+00 0.0001506089 0.000000e+00 0.000000e+00
## CSI044      0 0.000000e+00 0.0000000000 1.97157e-05 0.000000e+00
## CSI055      0 8.175383e-04 0.0000645425 0.000000e+00 0.000000e+00
## CSI065      0 0.000000e+00 0.0000756401 0.000000e+00 0.000000e+00
## CSI076      0 2.890675e-05 0.0001445337 0.000000e+00 0.000000e+00
##      0tu00591 0tu00592 0tu00593      0tu00594      0tu00595 0tu00596
## CSI001 1.172663e-04      0      0 0.000000e+00 2.345326e-05      0
## CSI012 6.899883e-05      0      0 3.449941e-05 8.624853e-05      0
## CSI022 2.151556e-05      0      0 6.454667e-05 4.303111e-05      0
## CSI044 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI055 9.251092e-04      0      0 0.000000e+00 0.000000e+00      0
## CSI065 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI076 4.914147e-04      0      0 2.890675e-05 0.000000e+00      0
##      0tu00597      0tu00598      0tu00599 0tu00600 0tu00601

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##	CSI001	7.035977e-04	3.987054e-04	3.189643e-03	0	0
##	CSI012	8.969848e-04	1.673222e-03	1.379977e-04	0	0
##	CSI022	3.012178e-04	3.657644e-04	2.151556e-05	0	0
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI055	8.605667e-05	0.000000e+00	0.000000e+00	0	0
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI076	8.672024e-05	0.000000e+00	0.000000e+00	0	0
##		0tu00602	0tu00603	0tu00604	0tu00605	0tu00606
##	CSI001	9.381303e-05	0.0012664759	0.000000e+00	2.345326e-05	0.000000e+00
##	CSI012	0.000000e+00	0.0012419789	0.000000e+00	0.000000e+00	1.724971e-05
##	CSI022	8.606222e-05	0.0002151556	0.000000e+00	4.303111e-05	2.151556e-05
##	CSI044	1.971570e-05	0.0000000000	3.943140e-05	0.000000e+00	0.000000e+00
##	CSI055	2.796842e-04	0.0005163400	2.151417e-05	0.000000e+00	0.000000e+00
##	CSI065	1.134602e-04	0.0003782005	7.564010e-05	0.000000e+00	0.000000e+00
##	CSI076	9.828294e-04	0.0001734405	0.000000e+00	0.000000e+00	0.000000e+00
##		0tu00607	0tu00608	0tu00609	0tu00610	0tu00611 0tu00612
##	CSI001	0	4.690652e-05	0	4.925184e-04	0.000000e+00 0
##	CSI012	0	7.589871e-04	0	5.174912e-05	0.000000e+00 0
##	CSI022	0	4.303111e-05	0	8.606222e-05	0.000000e+00 0
##	CSI044	0	0.000000e+00	0	0.000000e+00	0.000000e+00 0
##	CSI055	0	1.505992e-03	0	0.000000e+00	5.808825e-04 0
##	CSI065	0	3.782005e-05	0	0.000000e+00	0.000000e+00 0
##	CSI076	0	1.445337e-04	0	0.000000e+00	1.127363e-03 0
##		0tu00613	0tu00614	0tu00615	0tu00616	0tu00617
##	CSI001	7.035977e-05	2.814391e-04	4.690652e-05	0	0
##	CSI012	1.724971e-05	4.312427e-04	5.174912e-05	0	0
##	CSI022	0.000000e+00	6.454667e-05	5.594044e-04	0	0
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI055	3.055012e-03	0.000000e+00	0.000000e+00	0	0
##	CSI065	7.942211e-04	0.000000e+00	0.000000e+00	0	0
##	CSI076	3.353183e-03	0.000000e+00	0.000000e+00	0	0
##		0tu00618	0tu00619	0tu00620	0tu00621	0tu00622
##	CSI001	2.345326e-05	4.690652e-05	2.345326e-05	2.345326e-05	1.196116e-03
##	CSI012	1.724971e-05	2.587456e-04	6.899883e-04	0.000000e+00	4.139930e-04
##	CSI022	0.000000e+00	0.000000e+00	6.669822e-04	0.000000e+00	0.000000e+00
##	CSI044	0.000000e+00	0.000000e+00	7.886280e-05	0.000000e+00	0.000000e+00
##	CSI055	0.000000e+00	1.441449e-03	1.721133e-04	0.000000e+00	0.000000e+00
##	CSI065	0.000000e+00	0.000000e+00	1.134602e-04	0.000000e+00	0.000000e+00
##	CSI076	0.000000e+00	1.156270e-04	1.734405e-04	0.000000e+00	0.000000e+00
##		0tu00623	0tu00624	0tu00625	0tu00626	0tu00627
##	CSI001	0.0000000000	4.690652e-05	0.000000e+00	0.0000000000	0
##	CSI012	0.0000000000	1.552474e-04	0.000000e+00	0.0000000000	0
##	CSI022	0.0000000000	8.606222e-05	1.721244e-04	0.0000000000	0
##	CSI044	0.0000000000	3.943140e-05	0.000000e+00	0.0000000000	0
##	CSI055	0.0031840967	0.000000e+00	0.000000e+00	0.0000000000	0
##	CSI065	0.0000000000	3.782005e-05	0.000000e+00	0.0000000000	0
##	CSI076	0.0000000000	0.000000e+00	0.000000e+00	0.0000000000	0
##		0tu00628	0tu00629	0tu00630	0tu00631	0tu00632 0tu00633
##	CSI001	9.381303e-05	0	0	0	0.000000e+00 1.594822e-03
##	CSI012	2.587456e-04	0	0	0	0.000000e+00 5.347409e-04
##	CSI022	5.228280e-03	0	0	0	0.000000e+00 1.420027e-03
##	CSI044	0.000000e+00	0	0	0	0.000000e+00 1.577256e-03
##	CSI055	0.000000e+00	0	0	0	6.454250e-04 0.000000e+00
##	CSI065	0.000000e+00	0	0	0	0.000000e+00 3.782005e-04

```

## CSI076 0.000000e+00      0      0      0 8.672024e-05 0.000000e+00
##      0tu00634 0tu00635 0tu00636      0tu00637      0tu00638
## CSI001 0.000000e+00      0      0 7.505042e-04 0.000000e+00
## CSI012 1.724971e-05      0      0 4.484924e-04 0.000000e+00
## CSI022 0.000000e+00      0      0 1.075778e-04 0.000000e+00
## CSI044 1.971570e-05      0      0 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00      0      0 0.000000e+00 3.011983e-04
## CSI065 0.000000e+00      0      0 0.000000e+00 7.564010e-05
## CSI076 2.890675e-05      0      0 5.781349e-05 7.804822e-04
##      0tu00639      0tu00640      0tu00641      0tu00642 0tu00643
## CSI001 0.0019935269 1.477555e-03 0.000000e+00 2.345326e-05      0
## CSI012 0.0011212309 1.431726e-03 0.000000e+00 3.449941e-05      0
## CSI022 0.0006239511 0.000000e+00 4.303111e-05 2.151556e-05      0
## CSI044 0.0000000000 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI055 0.0003442267 1.290850e-04 0.000000e+00 0.000000e+00      0
## CSI065 0.0000000000 0.000000e+00 0.000000e+00 3.782005e-04      0
## CSI076 0.0001156270 0.000000e+00 0.000000e+00 1.445337e-04      0
##      0tu00644 0tu00645 0tu00646 0tu00647 0tu00648      0tu00649
## CSI001 1.805901e-03      0      0      0      0 0.000000e+00
## CSI012 1.052232e-03      0      0      0      0 0.000000e+00
## CSI022 4.711907e-03      0      0      0      0 0.000000e+00
## CSI044 1.971570e-05      0      0      0      0 0.000000e+00
## CSI055 0.000000e+00      0      0      0      0 0.000000e+00
## CSI065 3.025604e-04      0      0      0      0 0.000000e+00
## CSI076 0.000000e+00      0      0      0      0 0.000000e+00
##      0tu00650      0tu00651      0tu00652      0tu00653      0tu00654
## CSI001 0.000000e+00 0.000000e+00 0.0052535297 0.000000e+00 0.000000e+00
## CSI012 0.000000e+00 0.000000e+00 0.0000000000 0.000000e+00 0.000000e+00
## CSI022 0.000000e+00 2.151556e-05 0.0000000000 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00 0.0000000000 1.97157e-05 0.000000e+00
## CSI055 0.000000e+00 0.000000e+00 0.0000000000 0.000000e+00 4.302833e-05
## CSI065 0.000000e+00 0.000000e+00 0.0000000000 0.000000e+00 1.664082e-03
## CSI076 0.000000e+00 0.000000e+00 0.0012140834 0.000000e+00 2.110193e-03
##      0tu00655      0tu00656      0tu00657      0tu00658      0tu00659
## CSI001 7.035977e-05 0.000000e+00 0.000000e+00 5.628782e-04 0.0010553966
## CSI012 1.724971e-05 0.000000e+00 0.000000e+00 2.449458e-03 0.0007417374
## CSI022 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.0001290933
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000
## CSI055 2.000818e-03 2.151417e-05 0.000000e+00 9.896517e-04 0.0000000000
## CSI065 0.000000e+00 0.000000e+00 3.782005e-05 1.891003e-04 0.0000000000
## CSI076 5.116494e-03 3.179742e-04 0.000000e+00 8.672024e-05 0.0000000000
##      0tu00660      0tu00661 0tu00662 0tu00663      0tu00664 0tu00665
## CSI001      0 0.0000000000      0      0 3.517989e-04      0
## CSI012      0 0.0000000000      0      0 2.587456e-04      0
## CSI022      0 0.0000000000      0      0 2.151556e-05      0
## CSI044      0 0.0000000000      0      0 0.000000e+00      0
## CSI055      0 0.0000000000      0      0 0.000000e+00      0
## CSI065      0 0.001966643      0      0 0.000000e+00      0
## CSI076      0 0.0000000000      0      0 0.000000e+00      0
##      0tu00666 0tu00667      0tu00668 0tu00669 0tu00670 0tu00671
## CSI001      0      0 6.566912e-04      0      0      0
## CSI012      0      0 5.864900e-04      0      0      0
## CSI022      0      0 0.000000e+00      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0

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##	CSI055	0	0	1.505992e-04	0	0	0
##	CSI065	0	0	3.025604e-04	0	0	0
##	CSI076	0	0	8.672024e-05	0	0	0
##		0tu00672	0tu00673	0tu00674	0tu00675	0tu00676	
##	CSI001	0.0001172663	0	2.345326e-05	3.517989e-04	0	
##	CSI012	0.0006899883	0	0.000000e+00	1.138481e-03	0	
##	CSI022	0.0000000000	0	0.000000e+00	1.011231e-03	0	
##	CSI044	0.0000000000	0	1.971570e-05	0.000000e+00	0	
##	CSI055	0.0002151417	0	1.441449e-03	0.000000e+00	0	
##	CSI065	0.0000756401	0	9.076813e-04	0.000000e+00	0	
##	CSI076	0.0002023472	0	1.532058e-03	0.000000e+00	0	
##		0tu00677	0tu00678	0tu00679	0tu00680	0tu00681	
##	CSI001	4.690652e-05	0.0000000000	0.000000e+00	3.752521e-04	0.000000e+00	
##	CSI012	0.000000e+00	0.0000000000	0.000000e+00	2.242462e-04	5.174912e-04	
##	CSI022	0.000000e+00	0.0003442489	0.000000e+00	1.721244e-04	1.075778e-04	
##	CSI044	0.000000e+00	0.0000000000	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI055	0.000000e+00	0.0000000000	0.000000e+00	0.000000e+00	5.808825e-04	
##	CSI065	0.000000e+00	0.0000000000	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI076	0.000000e+00	0.0000000000	0.000000e+00	0.000000e+00	5.781349e-05	
##		0tu00682	0tu00683	0tu00684	0tu00685	0tu00686	
##	CSI001	4.690652e-05	0.000000e+00	5.534969e-03	0.0008443173	0	
##	CSI012	0.000000e+00	0.000000e+00	0.000000e+00	0.0003967433	0	
##	CSI022	0.000000e+00	0.000000e+00	1.290933e-04	0.0002366711	0	
##	CSI044	0.000000e+00	3.943140e-05	0.000000e+00	0.0000000000	0	
##	CSI055	0.000000e+00	0.000000e+00	1.505992e-04	0.0000000000	0	
##	CSI065	0.000000e+00	0.000000e+00	4.160206e-04	0.0000000000	0	
##	CSI076	0.000000e+00	0.000000e+00	5.781349e-05	0.0000000000	0	
##		0tu00687	0tu00688	0tu00689	0tu00690	0tu00691	0tu00692
##	CSI001	2.345326e-05	0	0.000000e+00	0	0	0
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI022	2.151556e-05	0	0.000000e+00	0	0	0
##	CSI044	1.971570e-05	0	0.000000e+00	0	0	0
##	CSI055	2.151417e-05	0	0.000000e+00	0	0	0
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI076	2.890675e-05	0	0.000000e+00	0	0	0
##		0tu00693	0tu00694	0tu00695	0tu00696	0tu00697	
##	CSI001	0	0.0000000000	0.0000000000	7.035977e-05	0.000000e+00	
##	CSI012	0	0.0000000000	0.0000000000	1.724971e-04	0.000000e+00	
##	CSI022	0	0.0000000000	0.0022591334	6.454667e-05	2.151556e-05	
##	CSI044	0	0.0000000000	0.0000000000	7.886280e-05	0.000000e+00	
##	CSI055	0	0.0005593683	0.0000000000	2.151417e-05	0.000000e+00	
##	CSI065	0	0.0000756401	0.0003025604	2.647404e-04	3.782005e-05	
##	CSI076	0	0.0001734405	0.0000000000	9.828294e-04	0.000000e+00	
##		0tu00698	0tu00699	0tu00700	0tu00701	0tu00702	0tu00703
##	CSI001	0	2.579858e-04	0.0000000000	0.000000e+00	0	0
##	CSI012	0	5.174912e-05	0.0006209894	1.034982e-04	0	0
##	CSI022	0	2.151556e-05	0.0001075778	6.454667e-05	0	0
##	CSI044	0	0.000000e+00	0.0000000000	0.000000e+00	0	0
##	CSI055	0	2.796842e-03	0.0001505992	2.151417e-05	0	0
##	CSI065	0	3.782005e-05	0.0003782005	0.000000e+00	0	0
##	CSI076	0	7.949355e-03	0.0000000000	2.630514e-03	0	0
##		0tu00704	0tu00705	0tu00706	0tu00707	0tu00708	
##	CSI001	0	7.035977e-05	0.000000e+00	0.000000e+00	0.0000000000	
##	CSI012	0	2.069965e-04	0.000000e+00	0.000000e+00	0.0000000000	

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## CSI022      0 2.452773e-03 4.303111e-05 2.151556e-05 0.0000000000
## CSI044      0 0.000000e+00 1.182942e-04 1.971570e-05 0.0000000000
## CSI055      0 0.000000e+00 0.000000e+00 2.796842e-04 0.0000000000
## CSI065      0 0.000000e+00 0.000000e+00 7.942211e-04 0.0002269203
## CSI076      0 0.000000e+00 0.000000e+00 7.804822e-04 0.0000000000
##      0tu00709      0tu00710 0tu00711      0tu00712      0tu00713
## CSI001 1.641728e-04 0.000000e+00      0 2.345326e-05 3.283456e-04
## CSI012 5.174912e-05 5.174912e-05      0 1.724971e-05 3.449941e-05
## CSI022 8.606222e-05 0.000000e+00      0 8.606222e-05 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0 0.000000e+00 3.943140e-05
## CSI055 7.529958e-04 4.517975e-04      0 0.000000e+00 4.690088e-03
## CSI065 2.647404e-04 1.512802e-04      0 3.782005e-05 4.160206e-04
## CSI076 5.781349e-04 2.225820e-03      0 0.000000e+00 5.723536e-03
##      0tu00714      0tu00715 0tu00716 0tu00717 0tu00718      0tu00719
## CSI001      0 0.000000e+00      0      0      0 0.0000000000
## CSI012      0 0.000000e+00      0      0      0 0.0000000000
## CSI022      0 0.000000e+00      0      0      0 0.0000000000
## CSI044      0 0.000000e+00      0      0      0 0.0001971570
## CSI055      0 7.099675e-04      0      0      0 0.0001075708
## CSI065      0 3.782005e-05      0      0      0 0.0004160206
## CSI076      0 1.011736e-03      0      0      0 0.0061282303
##      0tu00720 0tu00721 0tu00722 0tu00723      0tu00724      0tu00725
## CSI001 2.345326e-05      0      0      0 4.878278e-03 0.000000e+00
## CSI012 3.449941e-05      0      0      0 1.190230e-03 0.000000e+00
## CSI022 2.151556e-05      0      0      0 2.366711e-04 0.000000e+00
## CSI044 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00      0      0      0 4.302833e-05 5.378542e-04
## CSI065 0.000000e+00      0      0      0 0.000000e+00 2.269203e-04
## CSI076 0.000000e+00      0      0      0 8.672024e-05 8.672024e-04
##      0tu00726      0tu00727 0tu00728 0tu00729      0tu00730 0tu00731
## CSI001 7.270510e-04 1.641728e-04      0      0 4.690652e-05      0
## CSI012 8.452356e-04 1.724971e-04      0      0 1.724971e-05      0
## CSI022 1.506089e-04 0.000000e+00      0      0 0.000000e+00      0
## CSI044 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI055 1.290850e-04 1.333878e-03      0      0 7.314817e-04      0
## CSI065 3.782005e-05 0.000000e+00      0      0 0.000000e+00      0
## CSI076 5.781349e-05 2.890675e-05      0      0 9.828294e-04      0
##      0tu00732 0tu00733      0tu00734 0tu00735 0tu00736      0tu00737
## CSI001      0      0 0.0000000000      0      0 0.000000e+00
## CSI012      0      0 0.0000000000      0      0 0.000000e+00
## CSI022      0      0 0.0000000000      0      0 0.000000e+00
## CSI044      0      0 0.0000000000      0      0 0.000000e+00
## CSI055      0      0 0.0000000000      0      0 0.000000e+00
## CSI065      0      0 0.0000000000      0      0 0.000000e+00
## CSI076      0      0 0.0006359484      0      0 0.000000e+00
##      0tu00738 0tu00739 0tu00740      0tu00741 0tu00742 0tu00743
## CSI001 0.000000e+00      0      0 7.035977e-05      0      0
## CSI012 0.000000e+00      0      0 3.449941e-05      0      0
## CSI022 2.151556e-05      0      0 6.454667e-05      0      0
## CSI044 0.000000e+00      0      0 0.000000e+00      0      0
## CSI055 1.505992e-04      0      0 4.733117e-04      0      0
## CSI065 0.000000e+00      0      0 6.051208e-04      0      0
## CSI076 0.000000e+00      0      0 4.625079e-04      0      0
##      0tu00744      0tu00745      0tu00746 0tu00747 0tu00748      0tu00749

```

##	CSI001	0	0.000000e+00	4.690652e-05	0	0	4.221586e-04
##	CSI012	0	3.449941e-05	9.832333e-04	0	0	2.587456e-04
##	CSI022	0	3.227333e-04	5.163733e-04	0	0	4.303111e-05
##	CSI044	0	0.000000e+00	1.971570e-05	0	0	0.000000e+00
##	CSI055	0	3.764979e-03	0.000000e+00	0	0	0.000000e+00
##	CSI065	0	0.000000e+00	0.000000e+00	0	0	1.134602e-04
##	CSI076	0	8.672024e-05	4.914147e-04	0	0	1.445337e-04
##		0tu00750	0tu00751	0tu00752	0tu00753	0tu00754	
##	CSI001	0	0.000000e+00	0.000000e+00	0.0000000000	1.008490e-03	
##	CSI012	0	0.000000e+00	0.000000e+00	0.0000000000	1.776720e-03	
##	CSI022	0	0.000000e+00	0.000000e+00	0.0002151556	1.721244e-04	
##	CSI044	0	1.97157e-05	0.000000e+00	0.0000000000	0.000000e+00	
##	CSI055	0	0.000000e+00	4.517975e-04	0.0000000000	2.151417e-05	
##	CSI065	0	0.000000e+00	2.269203e-04	0.0000000000	0.000000e+00	
##	CSI076	0	0.000000e+00	1.098456e-03	0.0000000000	0.000000e+00	
##		0tu00755	0tu00756	0tu00757	0tu00758	0tu00759	0tu00760
##	CSI001	7.035977e-05	0	1.078850e-03	0	4.690652e-05	0
##	CSI012	8.624853e-05	0	4.657421e-04	0	0.000000e+00	0
##	CSI022	2.151556e-05	0	4.303111e-05	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0.000000e+00	0	1.971570e-05	0
##	CSI055	0.000000e+00	0	3.872550e-04	0	1.054194e-03	0
##	CSI065	0.000000e+00	0	1.928823e-03	0	1.512802e-04	0
##	CSI076	0.000000e+00	0	1.907845e-03	0	8.672024e-04	0
##		0tu00761	0tu00762	0tu00763	0tu00764	0tu00765	
##	CSI001	9.381303e-05	0.0000000000	0.000000e+00	4.690652e-04	1.407195e-04	
##	CSI012	8.624853e-05	0.0000000000	8.624853e-05	6.037397e-04	6.485890e-03	
##	CSI022	0.000000e+00	0.0000000000	0.000000e+00	3.872800e-04	2.861569e-03	
##	CSI044	2.011001e-03	0.0000000000	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI055	0.000000e+00	0.003980121	0.000000e+00	2.151417e-05	0.000000e+00	
##	CSI065	0.000000e+00	0.0000000000	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI076	0.000000e+00	0.0000000000	0.000000e+00	0.000000e+00	0.000000e+00	
##		0tu00766	0tu00767	0tu00768	0tu00769	0tu00770	
##	CSI001	0.000000e+00	6.566912e-04	0	1.172663e-03	0.000000e+00	
##	CSI012	2.069965e-04	2.069965e-04	0	4.829918e-04	0.000000e+00	
##	CSI022	1.075778e-04	0.000000e+00	0	4.303111e-04	0.000000e+00	
##	CSI044	0.000000e+00	0.000000e+00	0	9.857850e-05	0.000000e+00	
##	CSI055	2.151417e-04	2.366558e-04	0	1.290850e-04	0.000000e+00	
##	CSI065	1.134602e-04	0.000000e+00	0	1.512802e-04	0.000000e+00	
##	CSI076	2.890675e-05	5.492282e-04	0	7.226687e-04	2.890675e-05	
##		0tu00771	0tu00772	0tu00773	0tu00774	0tu00775	0tu00776
##	CSI001	0	2.345326e-05	0	0	0.000000e+00	3.048923e-04
##	CSI012	0	5.174912e-05	0	0	0.000000e+00	1.121231e-03
##	CSI022	0	3.442489e-04	0	0	6.454667e-05	6.454667e-05
##	CSI044	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00
##	CSI055	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00
##	CSI065	0	0.000000e+00	0	0	1.883439e-02	1.134602e-04
##	CSI076	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00
##		0tu00777	0tu00778	0tu00779	0tu00780	0tu00781	
##	CSI001	0.0020638867	5.863314e-04	0	3.987054e-04	0	
##	CSI012	0.0016387221	1.034982e-04	0	4.657421e-04	0	
##	CSI022	0.0017642756	8.606222e-05	0	1.936400e-04	0	
##	CSI044	0.0000000000	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0.0000000000	1.075708e-04	0	3.657408e-04	0	
##	CSI065	0.0000000000	0.000000e+00	0	0.000000e+00	0	

```

## CSI076 0.0000000000 0.000000e+00      0 8.093889e-04      0
##      0tu00782      0tu00783      0tu00784      0tu00785 0tu00786
## CSI001 1.172663e-03 1.641728e-04 0.0000000000 0.000000e+00      0
## CSI012 1.431726e-03 0.000000e+00 0.0000000000 2.414959e-04      0
## CSI022 6.024356e-04 0.000000e+00 0.0000000000 5.594044e-04      0
## CSI044 0.000000e+00 7.886280e-05 0.0043966010 0.000000e+00      0
## CSI055 0.000000e+00 0.000000e+00 0.0037004367 0.000000e+00      0
## CSI065 3.782005e-05 0.000000e+00 0.0001891003 0.000000e+00      0
## CSI076 0.000000e+00 2.890675e-05 0.0000000000 0.000000e+00      0
##      0tu00787      0tu00788      0tu00789      0tu00790 0tu00791
## CSI001 0.0000000000 0.000000e+00 7.270510e-04 1.407195e-04      0
## CSI012 0.0001724971 0.000000e+00 1.034982e-04 1.379977e-04      0
## CSI022 0.0007315289 0.000000e+00 0.000000e+00 2.151556e-05      0
## CSI044 0.0000000000 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI055 0.0006239108 0.000000e+00 5.593683e-04 1.936275e-04      0
## CSI065 0.0000000000 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI076 0.0002023472 0.000000e+00 5.781349e-05 2.890675e-05      0
##      0tu00792      0tu00793      0tu00794      0tu00795 0tu00796 0tu00797
## CSI001      0 0.000000e+00 2.345326e-05 2.345326e-05      0      0
## CSI012      0 0.000000e+00 0.000000e+00 0.000000e+00      0      0
## CSI022      0 0.000000e+00 0.000000e+00 2.581867e-04      0      0
## CSI044      0 0.000000e+00 0.000000e+00 0.000000e+00      0      0
## CSI055      0 0.000000e+00 0.000000e+00 6.454250e-05      0      0
## CSI065      0 0.000000e+00 0.000000e+00 0.000000e+00      0      0
## CSI076      0 0.000000e+00 0.000000e+00 0.000000e+00      0      0
##      0tu00798 0tu00799 0tu00800      0tu00801      0tu00802 0tu00803
## CSI001 0.000000e+00      0      0 4.690652e-05 0.000000e+00      0
## CSI012 5.347409e-04      0      0 0.000000e+00 0.000000e+00      0
## CSI022 2.151556e-05      0      0 1.075778e-04 0.000000e+00      0
## CSI044 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI055 8.605667e-05      0      0 4.302833e-05 1.290850e-04      0
## CSI065 1.134602e-04      0      0 0.000000e+00 7.564010e-05      0
## CSI076 0.000000e+00      0      0 0.000000e+00 1.156270e-04      0
##      0tu00804      0tu00805      0tu00806      0tu00807      0tu00808
## CSI001      0 9.381303e-05 0.000000e+00 7.035977e-05 0.000000e+00
## CSI012      0 2.587456e-04 0.000000e+00 5.312910e-03 0.000000e+00
## CSI022      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044      0 0.000000e+00 5.914710e-05 0.000000e+00 1.971570e-05
## CSI055      0 0.000000e+00 3.872550e-04 0.000000e+00 0.000000e+00
## CSI065      0 0.000000e+00 1.134602e-04 0.000000e+00 0.000000e+00
## CSI076      0 0.000000e+00 5.781349e-05 1.156270e-04 0.000000e+00
##      0tu00809 0tu00810      0tu00811      0tu00812      0tu00813
## CSI001 1.196116e-03      0 1.172663e-04 2.579858e-04 0.000000e+00
## CSI012 7.244877e-04      0 1.724971e-05 0.000000e+00 0.000000e+00
## CSI022 2.581867e-04      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 4.302833e-05      0 6.454250e-05 6.454250e-05 8.820809e-04
## CSI065 0.000000e+00      0 0.000000e+00 0.000000e+00 4.160206e-04
## CSI076 5.781349e-05      0 8.672024e-05 9.828294e-04 6.359484e-04
##      0tu00814 0tu00815      0tu00816 0tu00817      0tu00818
## CSI001 4.690652e-05      0 9.615836e-04      0 0.0000000000
## CSI012 6.899883e-05      0 8.279859e-04      0 0.0000000000
## CSI022 2.151556e-05      0 1.011231e-03      0 0.0000000000
## CSI044 0.000000e+00      0 0.000000e+00      0 0.0000000000

```



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## CSI055 2.796842e-04      0 0.000000e+00      0 0.0000000000
## CSI065 0.000000e+00      0 0.000000e+00      0 0.0001134602
## CSI076 0.000000e+00      0 0.000000e+00      0 0.0000000000
##      0tu00819      0tu00820      0tu00821 0tu00822 0tu00823
## CSI001 0.000000e+00 6.332380e-04 0.0000000000      0      0
## CSI012 0.000000e+00 2.587456e-04 0.0000000000      0      0
## CSI022 0.000000e+00 4.087956e-04 0.003636129      0      0
## CSI044 0.000000e+00 0.000000e+00 0.0000000000      0      0
## CSI055 2.151417e-05 0.000000e+00 0.0000000000      0      0
## CSI065 0.000000e+00 0.000000e+00 0.0000000000      0      0
## CSI076 0.000000e+00 0.000000e+00 0.0000000000      0      0
##      0tu00824      0tu00825      0tu00826      0tu00827      0tu00828
## CSI001 0.000000e+00 0.000000e+00 0.0002345326 1.641728e-04 1.641728e-04
## CSI012 0.000000e+00 1.724971e-05 0.0001897468 6.899883e-05 1.241979e-03
## CSI022 0.000000e+00 1.290933e-04 0.0000000000 3.313396e-03 2.151556e-05
## CSI044 0.000000e+00 0.000000e+00 0.0000000000 0.000000e+00 1.971570e-05
## CSI055 0.000000e+00 0.000000e+00 0.0004948258 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00 0.0000000000 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00 0.0005781349 0.000000e+00 1.503151e-03
##      0tu00829      0tu00830      0tu00831      0tu00832      0tu00833
## CSI001 0.000000e+00 0.0006097847 0.000000e+00 0.0004690652 1.923167e-03
## CSI012 0.000000e+00 0.0004484924 0.000000e+00 0.0011039812 1.224729e-03
## CSI022 0.000000e+00 0.0006239511 0.000000e+00 0.0009466845 1.506089e-04
## CSI044 0.000000e+00 0.0000000000 0.000000e+00 0.0000000000 0.000000e+00
## CSI055 6.454250e-05 0.0000000000 0.000000e+00 0.0000000000 8.605667e-05
## CSI065 0.000000e+00 0.0000000000 0.000000e+00 0.0000000000 0.000000e+00
## CSI076 5.781349e-05 0.0000000000 2.890675e-04 0.0000000000 1.734405e-04
##      0tu00834      0tu00835 0tu00836      0tu00837      0tu00838
## CSI001 2.110793e-04 5.863314e-04      0 0.000000e+00 1.172663e-04
## CSI012 1.207479e-04 5.692403e-04      0 0.000000e+00 1.207479e-04
## CSI022 0.000000e+00 6.454667e-05      0 0.000000e+00 2.151556e-05
## CSI044 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI055 1.290850e-04 0.000000e+00      0 0.000000e+00 4.948258e-04
## CSI065 0.000000e+00 0.000000e+00      0 1.512802e-04 3.782005e-05
## CSI076 5.492282e-04 2.890675e-05      0 0.000000e+00 3.613343e-03
##      0tu00839 0tu00840      0tu00841 0tu00842 0tu00843 0tu00844
## CSI001      0      0 0.000000e+00      0      0      0
## CSI012      0      0 0.000000e+00      0      0      0
## CSI022      0      0 2.151556e-05      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0
## CSI055      0      0 4.302833e-05      0      0      0
## CSI065      0      0 7.942211e-04      0      0      0
## CSI076      0      0 1.156270e-04      0      0      0
##      0tu00845      0tu00846 0tu00847 0tu00848 0tu00849      0tu00850
## CSI001 1.172663e-04 0.000000e+00      0      0      0 4.690652e-05
## CSI012 6.899883e-05 0.000000e+00      0      0      0 0.000000e+00
## CSI022 1.290933e-04 0.000000e+00      0      0      0 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
## CSI055 0.000000e+00 4.302833e-05      0      0      0 6.454250e-05
## CSI065 2.307023e-03 7.110170e-03      0      0      0 0.000000e+00
## CSI076 5.781349e-05 3.468810e-04      0      0      0 2.890675e-05
##      0tu00851      0tu00852 0tu00853      0tu00854 0tu00855 0tu00856
## CSI001 0.0000000000 7.035977e-05      0 7.035977e-04      0      0
## CSI012 0.0000000000 8.624853e-05      0 5.174912e-04      0      0

```

##	CSI022	0.0000000000	0.000000e+00	0	1.011231e-03	0	0
##	CSI044	0.0000000000	0.000000e+00	0	0.000000e+00	0	0
##	CSI055	0.0000000000	8.390525e-04	0	8.605667e-05	0	0
##	CSI065	0.0000000000	3.782005e-05	0	3.782005e-05	0	0
##	CSI076	0.0004336012	6.359484e-04	0	0.000000e+00	0	0
##		0tu00857	0tu00858	0tu00859	0tu00860	0tu00861	
##	CSI001	0	3.752521e-04	2.345326e-05	1.336836e-03	9.381303e-05	
##	CSI012	0	7.762368e-04	1.724971e-05	0.000000e+00	0.000000e+00	
##	CSI022	0	2.151556e-05	6.454667e-05	0.000000e+00	0.000000e+00	
##	CSI044	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI055	0	0.000000e+00	6.669392e-04	0.000000e+00	1.290850e-04	
##	CSI065	0	3.782005e-05	1.134602e-04	0.000000e+00	7.564010e-05	
##	CSI076	0	0.000000e+00	8.672024e-04	3.468810e-04	3.121929e-03	
##		0tu00862	0tu00863	0tu00864	0tu00865	0tu00866	0tu00867
##	CSI001	4.221586e-04	0	0.000000e+00	0	0.000000e+00	0
##	CSI012	3.794935e-04	0	8.624853e-05	0	2.069965e-04	0
##	CSI022	8.606222e-05	0	0.000000e+00	0	2.151556e-05	0
##	CSI044	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI055	3.227125e-04	0	0.000000e+00	0	0.000000e+00	0
##	CSI065	7.564010e-05	0	2.647404e-04	0	0.000000e+00	0
##	CSI076	4.336012e-04	0	5.781349e-05	0	2.023472e-04	0
##		0tu00868	0tu00869	0tu00870	0tu00871	0tu00872	0tu00873
##	CSI001	0.0010319433	0	0	0.0009381303	0.000000e+00	0
##	CSI012	0.0021389636	0	0	0.0017939695	0.000000e+00	0
##	CSI022	0.0007960756	0	0	0.0009251689	2.151556e-05	0
##	CSI044	0.0000000000	0	0	0.0000000000	0.000000e+00	0
##	CSI055	0.0000000000	0	0	0.0000000000	1.505992e-04	0
##	CSI065	0.0000000000	0	0	0.0000000000	0.000000e+00	0
##	CSI076	0.0000000000	0	0	0.0000000000	1.040643e-03	0
##		0tu00874	0tu00875	0tu00876	0tu00877	0tu00878	0tu00879
##	CSI001	0	3.517989e-04	0	0	0.000000e+00	5.628782e-04
##	CSI012	0	0.000000e+00	0	0	8.624853e-05	6.382391e-04
##	CSI022	0	4.303111e-05	0	0	0.000000e+00	6.024356e-04
##	CSI044	0	0.000000e+00	0	0	1.182942e-04	0.000000e+00
##	CSI055	0	0.000000e+00	0	0	1.118737e-03	0.000000e+00
##	CSI065	0	0.000000e+00	0	0	3.782005e-05	0.000000e+00
##	CSI076	0	0.000000e+00	0	0	2.601607e-04	0.000000e+00
##		0tu00880	0tu00881	0tu00882	0tu00883	0tu00884	
##	CSI001	2.814391e-04	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI012	8.107362e-04	0.000000e+00	1.724971e-05	1.724971e-05	0	
##	CSI022	1.290933e-04	6.454667e-05	0.000000e+00	0.000000e+00	0	
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI055	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI076	2.890675e-05	0.000000e+00	0.000000e+00	0.000000e+00	0	
##		0tu00885	0tu00886	0tu00887	0tu00888	0tu00889	
##	CSI001	7.035977e-05	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI012	0.000000e+00	3.449941e-05	0	1.724971e-05	0.000000e+00	
##	CSI022	8.606222e-05	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI044	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI055	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI065	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI076	0.000000e+00	0.000000e+00	0	4.393826e-03	2.890675e-05	
##		0tu00890	0tu00891	0tu00892	0tu00893	0tu00894	

```

## CSI001      0 0.000000e+00 5.628782e-04 7.035977e-05 4.690652e-05
## CSI012      0 0.000000e+00 0.000000e+00 3.449941e-05 1.724971e-05
## CSI022      0 6.454667e-05 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055      0 0.000000e+00 4.517975e-04 0.000000e+00 0.000000e+00
## CSI065      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076      0 0.000000e+00 4.336012e-04 4.625079e-04 0.000000e+00
##           0tu00895      0tu00896      0tu00897      0tu00898      0tu00899
## CSI001 7.035977e-05 0.000000e+00 2.157700e-03 8.912238e-04 0.0002579858
## CSI012 2.759953e-04 0.000000e+00 0.000000e+00 3.449941e-05 0.0003104947
## CSI022 4.303111e-05 0.000000e+00 2.151556e-03 0.000000e+00 0.0001721244
## CSI044 0.000000e+00 0.000000e+00 1.971570e-05 1.971570e-05 0.0000000000
## CSI055 2.366558e-04 3.011983e-04 2.151417e-05 4.948258e-04 0.0000000000
## CSI065 0.000000e+00 3.782005e-04 0.000000e+00 7.942211e-04 0.0000000000
## CSI076 2.023472e-04 2.890675e-05 3.468810e-04 1.734405e-04 0.0000000000
##           0tu00900      0tu00901      0tu00902 0tu00903      0tu00904
## CSI001 0.000000e+00 0.0000000000 2.345326e-05      0 0.000000e+00
## CSI012 0.000000e+00 0.0000000000 3.449941e-05      0 0.000000e+00
## CSI022 0.000000e+00 0.0000000000 0.000000e+00      0 2.581867e-04
## CSI044 0.000000e+00 0.0000000000 0.000000e+00      0 0.000000e+00
## CSI055 4.302833e-05 0.0003227125 0.000000e+00      0 3.011983e-04
## CSI065 0.000000e+00 0.0003025604 0.000000e+00      0 0.000000e+00
## CSI076 0.000000e+00 0.0013297104 0.000000e+00      0 0.000000e+00
##           0tu00905      0tu00906 0tu00907 0tu00908      0tu00909
## CSI001 0.000000e+00 2.345326e-05      0      0 0.000000e+00
## CSI012 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI022 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI055 0.000000e+00 0.000000e+00      0      0 2.151417e-05
## CSI065 0.000000e+00 0.000000e+00      0      0 1.682992e-02
## CSI076 1.445337e-04 4.740706e-03      0      0 0.000000e+00
##           0tu00910 0tu00911 0tu00912      0tu00913      0tu00914
## CSI001 0.000000e+00      0      0 2.345326e-05 2.345326e-04
## CSI012 0.000000e+00      0      0 0.000000e+00 1.034982e-04
## CSI022 0.000000e+00      0      0 4.303111e-05 2.151556e-05
## CSI044 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00      0      0 2.323530e-03 0.000000e+00
## CSI065 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00      0      0 2.196913e-03 0.000000e+00
##           0tu00915      0tu00916      0tu00917      0tu00918 0tu00919
## CSI001 0.000000e+00 0.000000e+00 4.690652e-05 1.172663e-04      0
## CSI012 0.000000e+00 1.724971e-05 3.449941e-05 0.000000e+00      0
## CSI022 0.000000e+00 0.000000e+00 2.366711e-04 8.606222e-05      0
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 3.943140e-05      0
## CSI055 0.000000e+00 0.000000e+00 0.000000e+00 2.538672e-03      0
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 7.564010e-05      0
## CSI076 1.445337e-04 0.000000e+00 0.000000e+00 2.890675e-04      0
##           0tu00920 0tu00921 0tu00922      0tu00923 0tu00924      0tu00925
## CSI001      0      0      0 1.196116e-03      0 1.688635e-03
## CSI012      0      0      0 1.328227e-03      0 2.673705e-03
## CSI022      0      0      0 2.581867e-04      0 5.378889e-04
## CSI044      0      0      0 0.000000e+00      0 0.000000e+00
## CSI055      0      0      0 0.000000e+00      0 8.605667e-05
## CSI065      0      0      0 3.782005e-05      0 1.134602e-04

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## CSI076      0      0      0 0.000000e+00      0 0.000000e+00
##      0tu00926 0tu00927      0tu00928      0tu00929 0tu00930      0tu00931
## CSI001      0      0 0.000000e+00 0.000000e+00      0 7.035977e-05
## CSI012      0      0 0.000000e+00 0.000000e+00      0 3.449941e-05
## CSI022      0      0 0.000000e+00 2.151556e-05      0 0.000000e+00
## CSI044      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI055      0      0 0.000000e+00 0.000000e+00      0 3.011983e-04
## CSI065      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI076      0      0 5.781349e-05 0.000000e+00      0 8.961092e-04
##      0tu00932      0tu00933 0tu00934 0tu00935      0tu00936
## CSI001 0.0003987054 0.000000e+00      0      0 1.219569e-03
## CSI012 0.0000000000 1.724971e-05      0      0 5.347409e-04
## CSI022 0.0001721244 0.000000e+00      0      0 3.012178e-04
## CSI044 0.0000000000 0.000000e+00      0      0 0.000000e+00
## CSI055 0.0008390525 0.000000e+00      0      0 0.000000e+00
## CSI065 0.0000000000 0.000000e+00      0      0 0.000000e+00
## CSI076 0.0003179742 0.000000e+00      0      0 0.000000e+00
##      0tu00937      0tu00938 0tu00939      0tu00940 0tu00941
## CSI001 0.000000e+00 9.381303e-05      0 4.221586e-04      0
## CSI012 0.000000e+00 1.552474e-04      0 1.034982e-04      0
## CSI022 0.000000e+00 4.303111e-05      0 9.466845e-04      0
## CSI044 0.000000e+00 1.577256e-04      0 0.000000e+00      0
## CSI055 0.000000e+00 2.151417e-05      0 2.151417e-05      0
## CSI065 0.000000e+00 0.000000e+00      0 4.160206e-04      0
## CSI076 0.000000e+00 3.757877e-04      0 1.358617e-03      0
##      0tu00942 0tu00943      0tu00944 0tu00945      0tu00946 0tu00947
## CSI001 0.000000e+00      0 0.000000e+00      0 0.0000000000      0
## CSI012 3.449941e-05      0 3.449941e-05      0 0.0000000000      0
## CSI022 0.000000e+00      0 0.000000e+00      0 0.0000000000      0
## CSI044 0.000000e+00      0 0.000000e+00      0 0.0000000000      0
## CSI055 0.000000e+00      0 1.290850e-04      0 0.0000000000      0
## CSI065 0.000000e+00      0 0.000000e+00      0 0.0000000000      0
## CSI076 8.672024e-05      0 8.672024e-05      0 0.0000000000      0
##      0tu00948 0tu00949      0tu00950      0tu00951      0tu00952
## CSI001      0      0 9.381303e-05 4.221586e-04 1.407195e-04
## CSI012      0      0 1.379977e-04 4.657421e-04 1.034982e-04
## CSI022      0      0 0.000000e+00 1.290933e-04 1.506089e-04
## CSI044      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055      0      0 1.936275e-04 0.000000e+00 4.302833e-05
## CSI065      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076      0      0 2.023472e-04 0.000000e+00 0.000000e+00
##      0tu00953 0tu00954      0tu00955      0tu00956 0tu00957
## CSI001 2.345326e-05      0 0.0000000000 0.0000000000      0
## CSI012 0.000000e+00      0 0.0000000000 0.0002587456      0
## CSI022 0.000000e+00      0 0.0000000000 0.0001721244      0
## CSI044 0.000000e+00      0 0.0000000000 0.0000000000      0
## CSI055 0.000000e+00      0 0.0011402509 0.0000000000      0
## CSI065 0.000000e+00      0 0.0003025604 0.0000000000      0
## CSI076 0.000000e+00      0 0.0003179742 0.0000000000      0
##      0tu00958      0tu00959 0tu00960 0tu00961 0tu00962 0tu00963
## CSI001 0.0000000000 0.000000e+00      0      0      0      0
## CSI012 0.0000000000 3.449941e-05      0      0      0      0
## CSI022 0.0000000000 0.000000e+00      0      0      0      0
## CSI044 0.0000000000 0.000000e+00      0      0      0      0

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## CSI055 0.0000000000 0.000000e+00      0      0      0      0
## CSI065 0.0000000000 0.000000e+00      0      0      0      0
## CSI076 0.0006937619 0.000000e+00      0      0      0      0
##      0tu00964 0tu00965 0tu00966 0tu00967      0tu00968 0tu00969
## CSI001      0      0      0      0 1.172663e-03      0
## CSI012      0      0      0      0 1.086732e-03      0
## CSI022      0      0      0      0 1.506089e-03      0
## CSI044      0      0      0      0 0.000000e+00      0
## CSI055      0      0      0      0 0.000000e+00      0
## CSI065      0      0      0      0 0.000000e+00      0
## CSI076      0      0      0      0 0.000000e+00      0
##      0tu00970      0tu00971      0tu00972 0tu00973      0tu00974
## CSI001 0.000000e+00 2.814391e-04 0.0011257564      0 0.0000000000
## CSI012 0.000000e+00 1.724971e-05 0.0007417374      0 0.0000000000
## CSI022 7.358320e-03 0.000000e+00 0.0001290933      0 0.0000000000
## CSI044 0.000000e+00 0.000000e+00 0.0000000000      0 0.0000000000
## CSI055 0.000000e+00 2.151417e-05 0.0000000000      0 0.0004302833
## CSI065 0.000000e+00 0.000000e+00 0.0000000000      0 0.0000000000
## CSI076 0.000000e+00 1.127363e-03 0.0000000000      0 0.0000000000
##      0tu00975 0tu00976      0tu00977      0tu00978 0tu00979 0tu00980
## CSI001      0      0 4.456119e-04 0.0011257564      0      0
## CSI012      0      0 1.052232e-03 0.0001897468      0      0
## CSI022      0      0 4.303111e-04 0.0001290933      0      0
## CSI044      0      0 1.971570e-05 0.0000000000      0      0
## CSI055      0      0 0.000000e+00 0.0000000000      0      0
## CSI065      0      0 2.647404e-04 0.0000000000      0      0
## CSI076      0      0 0.000000e+00 0.0003179742      0      0
##      0tu00981 0tu00982      0tu00983      0tu00984      0tu00985
## CSI001 2.345326e-05      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI012 1.724971e-05      0 0.000000e+00 0.000000e+00 1.724971e-05
## CSI022 2.797022e-04      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 6.454250e-05      0 0.000000e+00 0.000000e+00 1.505992e-04
## CSI065 4.160206e-04      0 0.000000e+00 3.782005e-05 3.782005e-05
## CSI076 2.890675e-05      0 3.468810e-04 0.000000e+00 7.515754e-04
##      0tu00986 0tu00987      0tu00988      0tu00989      0tu00990 0tu00991
## CSI001      0      0 2.345326e-05 0.000000e+00 0.000000e+00      0
## CSI012      0      0 0.000000e+00 2.587456e-04 0.000000e+00      0
## CSI022      0      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI044      0      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI055      0      0 0.000000e+00 1.398421e-03 0.000000e+00      0
## CSI065      0      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI076      0      0 0.000000e+00 5.492282e-03 0.000000e+00      0
##      0tu00992 0tu00993      0tu00994 0tu00995      0tu00996      0tu00997
## CSI001      0      0 0.0000000000      0 0.000000e+00 0.000000e+00
## CSI012      0      0 0.0000000000      0 0.000000e+00 0.000000e+00
## CSI022      0      0 0.0000000000      0 0.000000e+00 0.000000e+00
## CSI044      0      0 0.0000394314      0 0.000000e+00 0.000000e+00
## CSI055      0      0 0.0000645425      0 0.000000e+00 0.000000e+00
## CSI065      0      0 0.0000000000      0 0.000000e+00 0.000000e+00
## CSI076      0      0 0.0000000000      0 0.000000e+00 0.000000e+00
##      0tu00998 0tu00999      0tu01000 0tu01001      0tu01002 0tu01003
## CSI001      0      0 0.000000e+00      0 3.517989e-04      0
## CSI012      0      0 0.000000e+00      0 1.034982e-04      0

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##	CSI022	0	0 0.000000e+00	0 0.000000e+00	0
##	CSI044	0	0 3.943140e-05	0 0.000000e+00	0
##	CSI055	0	0 8.605667e-05	0 6.454250e-04	0
##	CSI065	0	0 1.512802e-04	0 1.134602e-04	0
##	CSI076	0	0 2.890675e-05	0 1.156270e-04	0
##		0tu01004	0tu01005	0tu01006	0tu01007 0tu01008
##	CSI001	0.000000e+00	0	0 1.641728e-04	0.0002110793
##	CSI012	0.000000e+00	0	0 1.034982e-04	0.0028634513
##	CSI022	0.000000e+00	0	0 2.280649e-03	0.0001075778
##	CSI044	0.000000e+00	0	0 0.000000e+00	0.0000000000
##	CSI055	0.000000e+00	0	0 4.302833e-05	0.0000000000
##	CSI065	0.000000e+00	0	0 0.000000e+00	0.0000000000
##	CSI076	0.000000e+00	0	0 0.000000e+00	0.0000000000
##		0tu01009	0tu01010	0tu01011	0tu01012 0tu01013
##	CSI001	1.172663e-04	4.596839e-03	0.000000e+00	0.000000e+00 0
##	CSI012	1.207479e-04	0.000000e+00	0.000000e+00	0.000000e+00 0
##	CSI022	6.454667e-04	0.000000e+00	0.000000e+00	2.151556e-05 0
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00 0
##	CSI055	0.000000e+00	1.635077e-03	0.000000e+00	1.936275e-04 0
##	CSI065	1.891003e-04	0.000000e+00	0.000000e+00	7.564010e-05 0
##	CSI076	1.156270e-04	0.000000e+00	0.000000e+00	4.625079e-04 0
##		0tu01014	0tu01015	0tu01016	0tu01017 0tu01018
##	CSI001	0 1.735541e-03	0.000000e+00	0.0001407195	2.345326e-05
##	CSI012	0 5.864900e-04	1.724971e-05	0.0005519906	0.000000e+00
##	CSI022	0 8.606222e-05	0.000000e+00	0.0006024356	0.000000e+00
##	CSI044	0 0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00
##	CSI055	0 0.000000e+00	2.581700e-03	0.0000000000	1.613563e-03
##	CSI065	0 0.000000e+00	7.564010e-05	0.0000000000	3.782005e-05
##	CSI076	0 5.781349e-05	1.445337e-04	0.0000000000	2.890675e-04
##		0tu01019	0tu01020	0tu01021	0tu01022 0tu01023
##	CSI001	1.665181e-03	0.000000e+00	0.0018293541	9.381303e-05 1.407195e-04
##	CSI012	7.417374e-04	0.000000e+00	0.0013627268	5.174912e-05 0.000000e+00
##	CSI022	4.303111e-05	0.000000e+00	0.0001290933	0.000000e+00 0.000000e+00
##	CSI044	0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00 0.000000e+00
##	CSI055	0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00 4.302833e-05
##	CSI065	0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00 0.000000e+00
##	CSI076	0.000000e+00	5.781349e-05	0.0002890675	5.781349e-05 0.000000e+00
##		0tu01024	0tu01025	0tu01026	0tu01027 0tu01028
##	CSI001	0.000000e+00	0.000000e+00	0	0 0.000000e+00
##	CSI012	0.000000e+00	0.000000e+00	0	0 0.000000e+00
##	CSI022	0.000000e+00	0.000000e+00	0	0 0.000000e+00
##	CSI044	0.000000e+00	0.000000e+00	0	0 0.000000e+00
##	CSI055	0.000000e+00	2.151417e-05	0	0 4.087692e-04
##	CSI065	3.782005e-05	3.782005e-05	0	0 0.000000e+00
##	CSI076	0.000000e+00	9.828294e-04	0	0 3.757877e-04
##		0tu01029	0tu01030	0tu01031	0tu01032 0tu01033
##	CSI001	1.196116e-03	1.407195e-04	0.0000000000	4.221586e-04 0
##	CSI012	6.382391e-04	4.657421e-04	0.0000000000	6.209894e-04 0
##	CSI022	1.506089e-04	8.606222e-05	0.0000000000	2.151556e-04 0
##	CSI044	0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00 0
##	CSI055	0.000000e+00	2.366558e-04	0.000645425	4.302833e-04 0
##	CSI065	3.782005e-05	0.000000e+00	0.0000000000	0.000000e+00 0
##	CSI076	0.000000e+00	8.672024e-05	0.0000000000	1.734405e-04 0
##		0tu01034	0tu01035	0tu01036	0tu01037 0tu01038

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## CSI001 0.000000e+00      0 0.000000e+00 0.00000e+00      0
## CSI012 0.000000e+00      0 1.724971e-05 0.00000e+00      0
## CSI022 0.000000e+00      0 0.000000e+00 0.00000e+00      0
## CSI044 0.000000e+00      0 0.000000e+00 0.00000e+00      0
## CSI055 0.000000e+00      0 0.000000e+00 0.00000e+00      0
## CSI065 7.564010e-05      0 0.000000e+00 7.56401e-05      0
## CSI076 5.781349e-05      0 0.000000e+00 0.00000e+00      0
##      0tu01039      0tu01040      0tu01041      0tu01042      0tu01043
## CSI001 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000 0.00000e+00
## CSI012 0.000000e+00 0.000000e+00 1.724971e-05 0.0001724971 0.00000e+00
## CSI022 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000 0.00000e+00
## CSI044 0.000000e+00 7.886280e-05 0.000000e+00 0.0002957355 1.97157e-05
## CSI055 0.000000e+00 1.161765e-03 0.000000e+00 0.0000000000 0.00000e+00
## CSI065 0.000000e+00 1.512802e-04 0.000000e+00 0.0001891003 0.00000e+00
## CSI076 0.000000e+00 2.890675e-05 0.000000e+00 0.0001445337 0.00000e+00
##      0tu01044      0tu01045 0tu01046 0tu01047 0tu01048      0tu01049
## CSI001 2.345326e-05 0.0000000000      0      0      0 9.381303e-05
## CSI012 4.829918e-04 0.0000000000      0      0      0 3.449941e-05
## CSI022 1.936400e-04 0.0000000000      0      0      0 0.000000e+00
## CSI044 0.000000e+00 0.0000000000      0      0      0 0.000000e+00
## CSI055 0.000000e+00 0.0000645425      0      0      0 8.390525e-04
## CSI065 0.000000e+00 0.0000000000      0      0      0 0.000000e+00
## CSI076 2.890675e-05 0.0001445337      0      0      0 6.677459e-03
##      0tu01050 0tu01051      0tu01052      0tu01053      0tu01054
## CSI001 7.035977e-05      0 0.000000e+00 0.0000000000 0.000000e+00
## CSI012 0.000000e+00      0 0.000000e+00 0.0000000000 0.000000e+00
## CSI022 0.000000e+00      0 0.000000e+00 0.0000000000 0.000000e+00
## CSI044 0.000000e+00      0 0.000000e+00 0.0000000000 0.000000e+00
## CSI055 0.000000e+00      0 3.011983e-04 0.0001075708 0.000000e+00
## CSI065 0.000000e+00      0 0.000000e+00 0.0000000000 0.000000e+00
## CSI076 0.000000e+00      0 2.890675e-05 0.0009828294 8.672024e-05
##      0tu01055 0tu01056 0tu01057 0tu01058 0tu01059      0tu01060
## CSI001 9.381303e-05      0      0      0      0 0.000000e+00
## CSI012 1.724971e-05      0      0      0      0 0.000000e+00
## CSI022 1.290933e-04      0      0      0      0 0.000000e+00
## CSI044 0.000000e+00      0      0      0      0 0.000000e+00
## CSI055 0.000000e+00      0      0      0      0 3.377724e-03
## CSI065 0.000000e+00      0      0      0      0 0.000000e+00
## CSI076 0.000000e+00      0      0      0      0 0.000000e+00
##      0tu01061 0tu01062 0tu01063 0tu01064      0tu01065      0tu01066
## CSI001 0.000000e+00      0      0      0 0.0000000000 0.00000e+00
## CSI012 1.724971e-05      0      0      0 0.0000000000 0.00000e+00
## CSI022 0.000000e+00      0      0      0 0.0000000000 0.00000e+00
## CSI044 0.000000e+00      0      0      0 0.0000000000 3.94314e-05
## CSI055 0.000000e+00      0      0      0 0.0000000000 0.00000e+00
## CSI065 0.000000e+00      0      0      0 0.0000000000 0.00000e+00
## CSI076 0.000000e+00      0      0      0 0.0000000000 0.00000e+00
##      0tu01067 0tu01068      0tu01069      0tu01070 0tu01071 0tu01072
## CSI001      0      0 7.270510e-04 0.0000000000      0      0
## CSI012      0      0 2.587456e-04 0.0000000000      0      0
## CSI022      0      0 1.075778e-04 0.0000000000      0      0
## CSI044      0      0 3.943140e-05 0.0000000000      0      0
## CSI055      0      0 2.151417e-05 0.0003872550      0      0
## CSI065      0      0 3.782005e-05 0.0002647404      0      0

```

## CSI076	0	0	0.000000e+00	0.0015031508	0	0
##	0tu01073	0tu01074	0tu01075	0tu01076	0tu01077	0tu01078
## CSI001	0	0	0	0.0000000000	1.172663e-04	0
## CSI012	0	0	0	0.0000000000	5.174912e-05	0
## CSI022	0	0	0	0.0000000000	0.000000e+00	0
## CSI044	0	0	0	0.0001971570	0.000000e+00	0
## CSI055	0	0	0	0.0002151417	2.796842e-04	0
## CSI065	0	0	0	0.0003403805	0.000000e+00	0
## CSI076	0	0	0	0.0004625079	0.000000e+00	0
##	0tu01079	0tu01080	0tu01081	0tu01082	0tu01083	0tu01084
## CSI001	0.0000000000	0	0	0.000000e+00	0	0
## CSI012	0.0000000000	0	0	6.899883e-05	0	0
## CSI022	0.0000000000	0	0	1.936400e-04	0	0
## CSI044	0.0000000000	0	0	0.000000e+00	0	0
## CSI055	0.0000000000	0	0	0.000000e+00	0	0
## CSI065	0.0000000000	0	0	0.000000e+00	0	0
## CSI076	0.000115627	0	0	0.000000e+00	0	0
##	0tu01085	0tu01086	0tu01087	0tu01088	0tu01089	
## CSI001	0	1.172663e-04	0.000000e+00	0.000000e+00	7.035977e-05	
## CSI012	0	0.000000e+00	0.000000e+00	0.000000e+00	4.139930e-04	
## CSI022	0	0.000000e+00	0.000000e+00	0.000000e+00	6.024356e-04	
## CSI044	0	0.000000e+00	0.000000e+00	1.971570e-05	1.971570e-05	
## CSI055	0	0.000000e+00	3.227125e-04	2.151417e-05	0.000000e+00	
## CSI065	0	0.000000e+00	0.000000e+00	1.134602e-04	0.000000e+00	
## CSI076	0	0.000000e+00	3.179742e-04	1.156270e-03	1.156270e-04	
##	0tu01090	0tu01091	0tu01092	0tu01093	0tu01094	
## CSI001	0.0000000000	4.690652e-05	0.000000e+00	0.000000e+00	2.345326e-05	
## CSI012	0.0000000000	1.724971e-05	0.000000e+00	0.000000e+00	0.000000e+00	
## CSI022	0.0000000000	1.312449e-03	0.000000e+00	0.000000e+00	8.606222e-05	
## CSI044	0.0000000000	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
## CSI055	0.0001290850	0.000000e+00	0.000000e+00	0.000000e+00	1.721133e-04	
## CSI065	0.0000000000	0.000000e+00	1.172422e-03	0.000000e+00	2.269203e-04	
## CSI076	0.0002601607	8.672024e-05	2.890675e-05	2.890675e-05	5.781349e-05	
##	0tu01095	0tu01096	0tu01097	0tu01098	0tu01099	
## CSI001	4.690652e-05	0	4.690652e-05	3.987054e-04	0	
## CSI012	8.624853e-05	0	3.449941e-05	2.759953e-04	0	
## CSI022	0.000000e+00	0	0.000000e+00	1.290933e-04	0	
## CSI044	0.000000e+00	0	3.943140e-05	0.000000e+00	0	
## CSI055	4.302833e-05	0	6.023967e-04	1.871733e-03	0	
## CSI065	1.134602e-04	0	6.051208e-04	0.000000e+00	0	
## CSI076	5.781349e-05	0	3.179742e-04	5.492282e-04	0	
##	0tu01100	0tu01101	0tu01102	0tu01103	0tu01104	0tu01105
## CSI001	1.407195e-04	0	0	0	1.477555e-03	0
## CSI012	4.829918e-04	0	0	0	5.864900e-04	0
## CSI022	6.454667e-05	0	0	0	9.682000e-04	0
## CSI044	3.943140e-05	0	0	0	0.000000e+00	0
## CSI055	2.581700e-04	0	0	0	0.000000e+00	0
## CSI065	0.000000e+00	0	0	0	0.000000e+00	0
## CSI076	1.156270e-04	0	0	0	0.000000e+00	0
##	0tu01106	0tu01107	0tu01108	0tu01109	0tu01110	
## CSI001	1.876261e-04	0.000000e+00	2.814391e-04	0.000000e+00	2.345326e-05	
## CSI012	0.000000e+00	0.000000e+00	8.624853e-04	0.000000e+00	1.552474e-04	
## CSI022	4.087956e-04	0.000000e+00	4.303111e-05	0.000000e+00	2.151556e-04	
## CSI044	2.168727e-04	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	



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## CSI055 8.605667e-05 2.151417e-05 0.000000e+00 0.000000e+00 0.000000e+00
## CSI065 6.051208e-04 0.000000e+00 0.000000e+00 1.134602e-04 0.000000e+00
## CSI076 5.781349e-05 0.000000e+00 0.000000e+00 1.734405e-04 0.000000e+00
##      0tu01111      0tu01112 0tu01113 0tu01114      0tu01115 0tu01116
## CSI001      0 2.345326e-05      0      0 6.801445e-04      0
## CSI012      0 0.000000e+00      0      0 1.552474e-04      0
## CSI022      0 0.000000e+00      0      0 2.151556e-05      0
## CSI044      0 0.000000e+00      0      0 0.000000e+00      0
## CSI055      0 1.505992e-04      0      0 2.151417e-05      0
## CSI065      0 1.891003e-04      0      0 2.269203e-04      0
## CSI076      0 1.734405e-04      0      0 2.890675e-05      0
##      0tu01117      0tu01118 0tu01119 0tu01120 0tu01121 0tu01122
## CSI001 1.876261e-04 3.752521e-04      0      0      0      0
## CSI012 1.379977e-04 1.224729e-03      0      0      0      0
## CSI022 1.506089e-04 1.936400e-04      0      0      0      0
## CSI044 0.000000e+00 0.000000e+00      0      0      0      0
## CSI055 0.000000e+00 8.605667e-05      0      0      0      0
## CSI065 0.000000e+00 0.000000e+00      0      0      0      0
## CSI076 2.890675e-05 0.000000e+00      0      0      0      0
##      0tu01123 0tu01124      0tu01125      0tu01126      0tu01127
## CSI001      0      0 1.407195e-04 9.381303e-05 9.381303e-05
## CSI012      0      0 3.277444e-04 0.000000e+00 5.519906e-04
## CSI022      0      0 2.151556e-05 0.000000e+00 1.075778e-04
## CSI044      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055      0      0 0.000000e+00 4.302833e-04 0.000000e+00
## CSI065      0      0 0.000000e+00 3.782005e-05 0.000000e+00
## CSI076      0      0 0.000000e+00 2.601607e-04 0.000000e+00
##      0tu01128      0tu01129 0tu01130      0tu01131      0tu01132
## CSI001 0.000000e+00 0.000000e+00      0 4.690652e-05 0.0001407195
## CSI012 0.000000e+00 0.000000e+00      0 0.000000e+00 0.0003277444
## CSI022 0.000000e+00 0.000000e+00      0 0.000000e+00 0.0001936400
## CSI044 7.886280e-05 0.000000e+00      0 0.000000e+00 0.0000000000
## CSI055 0.000000e+00 0.000000e+00      0 4.302833e-05 0.0000000000
## CSI065 2.647404e-04 0.000000e+00      0 0.000000e+00 0.0000000000
## CSI076 1.156270e-04 2.890675e-05      0 8.672024e-05 0.0000000000
##      0tu01133 0tu01134      0tu01135      0tu01136      0tu01137
## CSI001 5.394249e-04      0 2.345326e-05 2.814391e-04 0.000000e+00
## CSI012 4.139930e-04      0 0.000000e+00 1.207479e-04 0.000000e+00
## CSI022 1.721244e-04      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 1.290850e-04      0 0.000000e+00 0.000000e+00 4.302833e-05
## CSI065 0.000000e+00      0 0.000000e+00 3.403805e-04 4.538406e-04
## CSI076 0.000000e+00      0 0.000000e+00 5.781349e-05 1.792218e-03
##      0tu01138 0tu01139      0tu01140      0tu01141      0tu01142 0tu01143
## CSI001      0      0 2.345326e-04 0.000000e+00 0.000000e+00      0
## CSI012      0      0 0.000000e+00 0.000000e+00 5.519906e-04      0
## CSI022      0      0 0.000000e+00 0.000000e+00 1.506089e-04      0
## CSI044      0      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI055      0      0 9.035950e-04 6.45425e-05 4.302833e-05      0
## CSI065      0      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI076      0      0 2.890675e-05 0.000000e+00 0.000000e+00      0
##      0tu01144      0tu01145 0tu01146 0tu01147      0tu01148 0tu01149
## CSI001 1.407195e-04 4.690652e-05      0      0 0.000000e+00      0
## CSI012 5.174912e-05 0.000000e+00      0      0 0.000000e+00      0

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##	CSI022	2.151556e-05	0.000000e+00	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI055	0.000000e+00	3.227125e-04	0	0	0.000000e+00	0
##	CSI065	0.000000e+00	1.134602e-04	0	0	0.000000e+00	0
##	CSI076	0.000000e+00	8.672024e-05	0	0	5.781349e-05	0
##		0tu01150	0tu01151	0tu01152	0tu01153	0tu01154	0tu01155 0tu01156
##	CSI001	0	0	0	0	0	7.035977e-05 0
##	CSI012	0	0	0	0	0	0.000000e+00 0
##	CSI022	0	0	0	0	0	0.000000e+00 0
##	CSI044	0	0	0	0	0	0.000000e+00 0
##	CSI055	0	0	0	0	0	4.302833e-05 0
##	CSI065	0	0	0	0	0	0.000000e+00 0
##	CSI076	0	0	0	0	0	1.156270e-04 0
##		0tu01157	0tu01158	0tu01159	0tu01160	0tu01161	
##	CSI001	0.000000e+00	2.345326e-05	0	0	1.031943e-03	
##	CSI012	0.000000e+00	1.724971e-05	0	0	0.000000e+00	
##	CSI022	4.303111e-05	0.000000e+00	0	0	0.000000e+00	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI055	0.000000e+00	0.000000e+00	0	0	8.605667e-05	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI076	0.000000e+00	0.000000e+00	0	0	8.672024e-05	
##		0tu01162	0tu01163	0tu01164	0tu01165	0tu01166	0tu01167
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI012	1.724971e-05	1.776720e-03	0	0	0	0
##	CSI022	0.000000e+00	9.897156e-04	0	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu01168	0tu01169	0tu01170	0tu01171	0tu01172	0tu01173
##	CSI001	0	0	1.876261e-04	0	2.345326e-05	0.000000e+00
##	CSI012	0	0	2.069965e-04	0	0.000000e+00	0.000000e+00
##	CSI022	0	0	6.454667e-05	0	0.000000e+00	4.303111e-05
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI076	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##		0tu01174	0tu01175	0tu01176	0tu01177	0tu01178	0tu01179 0tu01180
##	CSI001	0	0	9.615836e-04	0	0	0 0
##	CSI012	0	0	2.932450e-04	0	0	0 0
##	CSI022	0	0	2.581867e-04	0	0	0 0
##	CSI044	0	0	0.000000e+00	0	0	0 0
##	CSI055	0	0	0.000000e+00	0	0	0 0
##	CSI065	0	0	0.000000e+00	0	0	0 0
##	CSI076	0	0	0.000000e+00	0	0	0 0
##		0tu01181	0tu01182	0tu01183	0tu01184	0tu01185	
##	CSI001	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI012	0	0.000000e+00	0.000000e+00	0	6.382391e-04	
##	CSI022	0	0.000000e+00	2.366711e-04	0	6.454667e-05	
##	CSI044	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0.000000e+00	3.011983e-04	0	0.000000e+00	
##	CSI065	0	0.000000e+00	1.815363e-03	0	0.000000e+00	
##	CSI076	0	0.000000e+00	1.734405e-04	0	0.000000e+00	
##		0tu01186	0tu01187	0tu01188	0tu01189	0tu01190	

```

## CSI001 0.0000000000      0 0.000000000      0 5.628782e-04
## CSI012 0.0001379977      0 0.000000000      0 5.174912e-05
## CSI022 0.0000000000      0 0.000000000      0 0.000000e+00
## CSI044 0.0000000000      0 0.000000000      0 0.000000e+00
## CSI055 0.0012908500      0 0.000000000      0 0.000000e+00
## CSI065 0.0000000000      0 0.001021141      0 0.000000e+00
## CSI076 0.0004046945      0 0.000000000      0 5.781349e-05
##      0tu01191      0tu01192 0tu01193      0tu01194      0tu01195
## CSI001 6.332380e-04 5.863314e-04      0 0.000000e+00 2.345326e-05
## CSI012 1.190230e-03 5.519906e-04      0 0.000000e+00 3.449941e-05
## CSI022 4.303111e-05 7.960756e-04      0 0.000000e+00 2.151556e-05
## CSI044 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI055 6.454250e-05 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI076 2.890675e-05 0.000000e+00      0 8.382957e-03 0.000000e+00
##      0tu01196 0tu01197 0tu01198      0tu01199 0tu01200      0tu01201
## CSI001 4.690652e-05      0      0 4.690652e-05      0 0.0000000000
## CSI012 0.000000e+00      0      0 0.000000e+00      0 0.0000000000
## CSI022 0.000000e+00      0      0 4.303111e-05      0 0.0000000000
## CSI044 1.971570e-05      0      0 0.000000e+00      0 0.0000000000
## CSI055 0.000000e+00      0      0 2.151417e-05      0 0.0004948258
## CSI065 0.000000e+00      0      0 7.564010e-05      0 0.0000000000
## CSI076 0.000000e+00      0      0 8.672024e-05      0 0.0000000000
##      0tu01202      0tu01203 0tu01204 0tu01205 0tu01206      0tu01207
## CSI001      0 1.102303e-03      0      0      0 0.000000e+00
## CSI012      0 5.347409e-04      0      0      0 3.449941e-05
## CSI022      0 3.012178e-04      0      0      0 0.000000e+00
## CSI044      0 0.000000e+00      0      0      0 0.000000e+00
## CSI055      0 2.151417e-05      0      0      0 1.097223e-03
## CSI065      0 0.000000e+00      0      0      0 3.025604e-04
## CSI076      0 0.000000e+00      0      0      0 4.914147e-04
##      0tu01208 0tu01209      0tu01210 0tu01211      0tu01212      0tu01213
## CSI001      0      0 0.000000e+00      0 1.172663e-04 0.000000e+00
## CSI012      0      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI022      0      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI044      0      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI055      0      0 2.151417e-05      0 2.151417e-05 0.000000e+00
## CSI065      0      0 1.285882e-03      0 0.000000e+00 0.000000e+00
## CSI076      0      0 3.468810e-04      0 1.445337e-04 0.000000e+00
##      0tu01214 0tu01215 0tu01216 0tu01217      0tu01218 0tu01219
## CSI001 2.345326e-05      0      0      0 4.690652e-04      0
## CSI012 0.000000e+00      0      0      0 2.242462e-04      0
## CSI022 0.000000e+00      0      0      0 4.303111e-05      0
## CSI044 0.000000e+00      0      0      0 0.000000e+00      0
## CSI055 1.527506e-03      0      0      0 0.000000e+00      0
## CSI065 1.891003e-04      0      0      0 0.000000e+00      0
## CSI076 6.648552e-04      0      0      0 2.890675e-05      0
##      0tu01220 0tu01221 0tu01222 0tu01223      0tu01224 0tu01225 0tu01226
## CSI001      0      0      0      0 0.000000e+00      0      0
## CSI012      0      0      0      0 6.002898e-03      0      0
## CSI022      0      0      0      0 0.000000e+00      0      0
## CSI044      0      0      0      0 0.000000e+00      0      0
## CSI055      0      0      0      0 2.151417e-05      0      0
## CSI065      0      0      0      0 0.000000e+00      0      0

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## CSI076      0      0      0      0 5.781349e-05      0      0
##      0tu01227 0tu01228      0tu01229      0tu01230 0tu01231 0tu01232
## CSI001 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI012 1.724971e-05      0 3.449941e-05 0.000000e+00      0      0
## CSI022 6.454667e-05      0 1.075778e-04 0.000000e+00      0      0
## CSI044 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI055 0.000000e+00      0 2.151417e-05 0.000000e+00      0      0
## CSI065 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI076 0.000000e+00      0 0.000000e+00 2.890675e-05      0      0
##      0tu01233      0tu01234      0tu01235 0tu01236      0tu01237
## CSI001      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI012      0 0.000000e+00 0.000000e+00      0 1.552474e-04
## CSI022      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI044      0 0.000000e+00 1.971570e-05      0 0.000000e+00
## CSI055      0 0.000000e+00 1.333878e-03      0 5.378542e-04
## CSI065      0 0.000000e+00 3.782005e-05      0 1.891003e-04
## CSI076      0 2.890675e-04 1.127363e-03      0 2.890675e-05
##      0tu01238      0tu01239      0tu01240 0tu01241      0tu01242
## CSI001 0.000000e+00 2.110793e-04 2.345326e-05      0 1.172663e-04
## CSI012 0.000000e+00 0.000000e+00 5.174912e-05      0 1.724971e-04
## CSI022 0.000000e+00 8.606222e-05 0.000000e+00      0 1.075778e-04
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI055 0.000000e+00 0.000000e+00 2.151417e-05      0 0.000000e+00
## CSI065 3.782005e-05 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00 1.734405e-04      0 0.000000e+00
##      0tu01243 0tu01244 0tu01245      0tu01246      0tu01247      0tu01248
## CSI001      0      0      0 0.000000e+00 0.000000e+00 9.381303e-05
## CSI012      0      0      0 0.000000e+00 0.000000e+00 1.034982e-04
## CSI022      0      0      0 0.000000e+00 0.000000e+00 2.581867e-04
## CSI044      0      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055      0      0      0 2.151417e-04 2.151417e-05 0.000000e+00
## CSI065      0      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076      0      0      0 3.179742e-04 0.000000e+00 0.000000e+00
##      0tu01249      0tu01250      0tu01251 0tu01252 0tu01253 0tu01254
## CSI001 1.383742e-03 0.000000e+00 0.000000e+00      0      0      0
## CSI012 8.624853e-04 0.000000e+00 0.000000e+00      0      0      0
## CSI022 1.721244e-04 0.000000e+00 0.000000e+00      0      0      0
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00      0      0      0
## CSI055 0.000000e+00 1.936275e-04 0.000000e+00      0      0      0
## CSI065 0.000000e+00 1.512802e-04 0.000000e+00      0      0      0
## CSI076 0.000000e+00 2.023472e-04 0.000000e+00      0      0      0
##      0tu01255 0tu01256 0tu01257 0tu01258 0tu01259 0tu01260      0tu01261
## CSI001      0      0      0      0      0      0 0.0000000000
## CSI012      0      0      0      0      0      0 0.0000000000
## CSI022      0      0      0      0      0      0 0.0000000000
## CSI044      0      0      0      0      0      0 0.0000000000
## CSI055      0      0      0      0      0      0 0.0002366558
## CSI065      0      0      0      0      0      0 0.0000000000
## CSI076      0      0      0      0      0      0 0.0028039544
##      0tu01262 0tu01263      0tu01264 0tu01265 0tu01266      0tu01267
## CSI001      0      0 0.000000e+00      0      0 0.000000e+00
## CSI012      0      0 1.724971e-05      0      0 0.000000e+00
## CSI022      0      0 0.000000e+00      0      0 0.000000e+00
## CSI044      0      0 0.000000e+00      0      0 0.000000e+00

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## CSI055      0      0 0.000000e+00      0      0 2.151417e-05
## CSI065      0      0 0.000000e+00      0      0 0.000000e+00
## CSI076      0      0 0.000000e+00      0      0 0.000000e+00
##      0tu01268 0tu01269      0tu01270 0tu01271 0tu01272 0tu01273
## CSI001 0.0000000000      0 1.876261e-04      0      0      0
## CSI012 0.0000000000      0 1.379977e-04      0      0      0
## CSI022 0.0000000000      0 1.290933e-04      0      0      0
## CSI044 0.0007491966      0 0.000000e+00      0      0      0
## CSI055 0.0000000000      0 2.796842e-04      0      0      0
## CSI065 0.0046140464      0 3.782005e-05      0      0      0
## CSI076 0.0000000000      0 4.914147e-04      0      0      0
##      0tu01274 0tu01275 0tu01276      0tu01277      0tu01278
## CSI001 9.381303e-05      0      0 0.000000e+00 0.000000e+00
## CSI012 5.519906e-04      0      0 0.000000e+00 1.724971e-05
## CSI022 5.378889e-04      0      0 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00      0      0 6.454250e-05 4.302833e-05
## CSI065 0.000000e+00      0      0 1.512802e-04 0.000000e+00
## CSI076 0.000000e+00      0      0 8.672024e-05 1.300804e-03
##      0tu01279      0tu01280      0tu01281      0tu01282      0tu01283
## CSI001 4.690652e-04 2.345326e-05 0.000000e+00 0.000000e+00 3.987054e-04
## CSI012 5.519906e-04 0.000000e+00 0.000000e+00 0.000000e+00 2.414959e-04
## CSI022 8.606222e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.366711e-04
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 9.857850e-05 0.000000e+00
## CSI055 0.000000e+00 0.000000e+00 2.366558e-04 2.151417e-05 6.454250e-05
## CSI065 0.000000e+00 0.000000e+00 1.285882e-03 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00 2.023472e-04 2.601607e-04 0.000000e+00
##      0tu01284 0tu01285      0tu01286      0tu01287 0tu01288      0tu01289
## CSI001      0      0 4.690652e-05 0.0010084901      0 2.345326e-05
## CSI012      0      0 0.000000e+00 0.0006727386      0 1.000483e-03
## CSI022      0      0 0.000000e+00 0.0000000000      0 4.303111e-05
## CSI044      0      0 0.000000e+00 0.0000000000      0 0.000000e+00
## CSI055      0      0 1.075708e-04 0.0000000000      0 0.000000e+00
## CSI065      0      0 0.000000e+00 0.0000000000      0 0.000000e+00
## CSI076      0      0 1.734405e-04 0.0000000000      0 0.000000e+00
##      0tu01290 0tu01291      0tu01292      0tu01293 0tu01294      0tu01295
## CSI001      0      0 3.752521e-04 0.000000e+00      0 0.000000e+00
## CSI012      0      0 0.000000e+00 1.724971e-05      0 3.449941e-05
## CSI022      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI044      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI055      0      0 6.454250e-05 6.454250e-05      0 0.000000e+00
## CSI065      0      0 4.916607e-04 0.000000e+00      0 0.000000e+00
## CSI076      0      0 1.734405e-04 5.203214e-04      0 1.445337e-04
##      0tu01296 0tu01297      0tu01298      0tu01299      0tu01300
## CSI001 4.690652e-05      0 1.031943e-03 0.000000e+00 9.381303e-05
## CSI012 0.000000e+00      0 2.932450e-04 0.000000e+00 3.449941e-05
## CSI022 0.000000e+00      0 1.075778e-04 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 3.872550e-04      0 0.000000e+00 4.302833e-05 3.442267e-04
## CSI065 3.782005e-05      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076 6.359484e-04      0 0.000000e+00 0.000000e+00 3.468810e-04
##      0tu01301 0tu01302 0tu01303      0tu01304      0tu01305
## CSI001 0.000000e+00      0      0 0.000000e+00 1.172663e-04
## CSI012 1.724971e-05      0      0 0.000000e+00 7.072380e-04

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## CSI022 0.000000e+00      0      0 0.000000e+00 1.678213e-03
## CSI044 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI055 5.808825e-04      0      0 1.828704e-03 0.000000e+00
## CSI065 0.000000e+00      0      0 3.782005e-05 0.000000e+00
## CSI076 2.023472e-04      0      0 9.539226e-04 0.000000e+00
##      0tu01306      0tu01307      0tu01308      0tu01309      0tu01310
## CSI001 0.000000e+00 4.925184e-04 0.00000000000 0.000000e+00 0.00000000000
## CSI012 3.622438e-04 3.449941e-05 0.0002759953 0.000000e+00 0.00000000000
## CSI022 0.000000e+00 2.151556e-05 0.0006024356 0.000000e+00 0.00000000000
## CSI044 0.000000e+00 0.000000e+00 0.00000000000 0.000000e+00 0.00000000000
## CSI055 0.000000e+00 4.302833e-05 0.00000000000 8.605667e-05 0.0003872550
## CSI065 0.000000e+00 0.000000e+00 0.00000000000 0.000000e+00 0.0001891003
## CSI076 0.000000e+00 2.890675e-05 0.00000000000 2.890675e-05 0.0004336012
##      0tu01311      0tu01312 0tu01313      0tu01314 0tu01315 0tu01316
## CSI001 0.000000e+00 9.381303e-05      0 0.00000000000      0      0
## CSI012 0.000000e+00 3.449941e-05      0 0.00000000000      0      0
## CSI022 0.000000e+00 0.000000e+00      0 0.00000000000      0      0
## CSI044 1.97157e-05 0.000000e+00      0 0.00000000000      0      0
## CSI055 0.000000e+00 1.290850e-04      0 0.00000000000      0      0
## CSI065 0.000000e+00 0.000000e+00      0 0.00000000000      0      0
## CSI076 0.000000e+00 0.000000e+00      0 0.00000000000      0      0
##      0tu01317      0tu01318 0tu01319 0tu01320      0tu01321 0tu01322
## CSI001 0.000000e+00 1.970074e-03      0      0 0.0002110793      0
## CSI012 6.899883e-05 1.724971e-05      0      0 0.0001379977      0
## CSI022 4.303111e-05 4.303111e-05      0      0 0.00000000000      0
## CSI044 0.000000e+00 0.000000e+00      0      0 0.00000000000      0
## CSI055 0.000000e+00 0.000000e+00      0      0 0.00000000000      0
## CSI065 0.000000e+00 0.000000e+00      0      0 0.00000000000      0
## CSI076 0.000000e+00 0.000000e+00      0      0 0.0001445337      0
##      0tu01323 0tu01324 0tu01325      0tu01326      0tu01327      0tu01328
## CSI001      0      0      0 0.000000e+00 4.409212e-03 0.000000e+00
## CSI012      0      0      0 0.000000e+00 6.899883e-05 3.449941e-05
## CSI022      0      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044      0      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055      0      0      0 2.151417e-05 0.000000e+00 0.000000e+00
## CSI065      0      0      0 3.782005e-05 0.000000e+00 3.782005e-05
## CSI076      0      0      0 0.000000e+00 0.000000e+00 1.445337e-04
##      0tu01329      0tu01330 0tu01331      0tu01332 0tu01333 0tu01334
## CSI001      0 0.000000e+00      0 0.000000e+00      0      0
## CSI012      0 0.000000e+00      0 0.000000e+00      0      0
## CSI022      0 0.000000e+00      0 0.000000e+00      0      0
## CSI044      0 0.000000e+00      0 0.000000e+00      0      0
## CSI055      0 0.000000e+00      0 4.087692e-04      0      0
## CSI065      0 1.134602e-04      0 0.000000e+00      0      0
## CSI076      0 2.890675e-05      0 4.625079e-04      0      0
##      0tu01335 0tu01336 0tu01337 0tu01338      0tu01339 0tu01340
## CSI001 0.000000e+00      0      0      0 0.000000e+00      0
## CSI012 1.724971e-05      0      0      0 0.000000e+00      0
## CSI022 0.000000e+00      0      0      0 0.000000e+00      0
## CSI044 0.000000e+00      0      0      0 0.000000e+00      0
## CSI055 8.605667e-05      0      0      0 1.075708e-04      0
## CSI065 0.000000e+00      0      0      0 0.000000e+00      0
## CSI076 2.890675e-05      0      0      0 4.336012e-03      0
##      0tu01341      0tu01342 0tu01343      0tu01344      0tu01345 0tu01346

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##	CSI001	0	0.0000000000	0	0.000000e+00	0.000000e+00	0	
##	CSI012	0	0.0000000000	0	3.449941e-05	0.000000e+00	0	
##	CSI022	0	0.0000000000	0	1.075778e-04	0.000000e+00	0	
##	CSI044	0	0.0000000000	0	0.000000e+00	5.914710e-05	0	
##	CSI055	0	0.0004948258	0	0.000000e+00	0.000000e+00	0	
##	CSI065	0	0.0001134602	0	0.000000e+00	6.315949e-03	0	
##	CSI076	0	0.0000000000	0	0.000000e+00	5.781349e-05	0	
##		0tu01347	0tu01348	0tu01349	0tu01350	0tu01351	0tu01352	0tu01353
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	2.151417e-05
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	2.890675e-05
##		0tu01354	0tu01355	0tu01356	0tu01357	0tu01358	0tu01359	0tu01360
##	CSI001	0	0	0	0	7.739575e-04	0	0
##	CSI012	0	0	0	0	1.724971e-04	0	0
##	CSI022	0	0	0	0	4.948578e-04	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	2.890675e-05	0	0
##		0tu01361	0tu01362	0tu01363	0tu01364	0tu01365		
##	CSI001	0.0000000000	0	4.690652e-05	0.000000e+00	5.159717e-04		
##	CSI012	0.0000000000	0	1.724971e-04	1.724971e-05	8.624853e-05		
##	CSI022	0.0000000000	0	4.303111e-05	0.000000e+00	6.454667e-05		
##	CSI044	0.001892707	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI055	0.0000000000	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI065	0.0000000000	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI076	0.0000000000	0	8.672024e-05	0.000000e+00	0.000000e+00		
##		0tu01366	0tu01367	0tu01368	0tu01369	0tu01370	0tu01371	
##	CSI001	0	0	0	0.000000e+00	0	0	
##	CSI012	0	0	0	0.000000e+00	0	0	
##	CSI022	0	0	0	0.000000e+00	0	0	
##	CSI044	0	0	0	0.000000e+00	0	0	
##	CSI055	0	0	0	6.454250e-05	0	0	
##	CSI065	0	0	0	0.000000e+00	0	0	
##	CSI076	0	0	0	7.226687e-04	0	0	
##		0tu01372	0tu01373	0tu01374	0tu01375	0tu01376		
##	CSI001	2.345326e-05	1.876261e-04	0	2.345326e-05	3.987054e-04		
##	CSI012	1.724971e-05	4.829918e-04	0	0.000000e+00	1.552474e-04		
##	CSI022	0.000000e+00	2.151556e-04	0	0.000000e+00	1.075778e-04		
##	CSI044	0.000000e+00	1.971570e-05	0	0.000000e+00	0.000000e+00		
##	CSI055	4.302833e-05	6.454250e-05	0	1.721133e-04	2.151417e-05		
##	CSI065	1.134602e-04	7.564010e-05	0	0.000000e+00	0.000000e+00		
##	CSI076	5.781349e-04	0.000000e+00	0	1.445337e-04	0.000000e+00		
##		0tu01377	0tu01378	0tu01379	0tu01380	0tu01381	0tu01382	
##	CSI001	0	0.000000e+00	0	0	0.000000e+00	0.0000000000	
##	CSI012	0	0.000000e+00	0	0	1.724971e-05	0.0000000000	
##	CSI022	0	2.151556e-05	0	0	0.000000e+00	0.0000000000	
##	CSI044	0	3.943140e-05	0	0	0.000000e+00	0.0000000000	
##	CSI055	0	0.000000e+00	0	0	0.000000e+00	0.0015705342	
##	CSI065	0	5.862108e-03	0	0	0.000000e+00	0.0000000000	

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## CSI076      0 0.000000e+00      0      0 0.000000e+00 0.0000000000
##      0tu01383 0tu01384      0tu01385      0tu01386 0tu01387 0tu01388
## CSI001 0.000000e+00      0 7.035977e-05 0.0004690652      0      0
## CSI012 0.000000e+00      0 8.624853e-05 0.0004139930      0      0
## CSI022 0.000000e+00      0 4.303111e-05 0.0002581867      0      0
## CSI044 0.000000e+00      0 0.000000e+00 0.0000000000      0      0
## CSI055 2.151417e-05      0 6.454250e-05 0.0000000000      0      0
## CSI065 0.000000e+00      0 0.000000e+00 0.0000000000      0      0
## CSI076 1.156270e-04      0 5.781349e-05 0.0000000000      0      0
##      0tu01389      0tu01390      0tu01391      0tu01392      0tu01393
## CSI001 0.000000e+00 7.035977e-05 2.814391e-04 4.690652e-05 2.579858e-04
## CSI012 1.724971e-05 0.000000e+00 2.069965e-04 1.034982e-04 0.000000e+00
## CSI022 3.227333e-04 0.000000e+00 1.075778e-04 2.151556e-05 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 6.454250e-05
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 3.782005e-05 3.782005e-05
## CSI076 0.000000e+00 1.734405e-04 0.000000e+00 8.672024e-05 0.000000e+00
##      0tu01394      0tu01395      0tu01396      0tu01397 0tu01398
## CSI001      0 0.000000e+00 9.615836e-04 0.000000e+00      0
## CSI012      0 1.724971e-05 1.207479e-04 0.000000e+00      0
## CSI022      0 0.000000e+00 4.303111e-05 8.606222e-05      0
## CSI044      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI055      0 0.000000e+00 1.721133e-04 0.000000e+00      0
## CSI065      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI076      0 0.000000e+00 2.312540e-04 0.000000e+00      0
##      0tu01399 0tu01400 0tu01401 0tu01402 0tu01403 0tu01404 0tu01405
## CSI001 4.690652e-05      0      0      0      0      0
## CSI012 5.174912e-05      0      0      0      0      0
## CSI022 6.454667e-05      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0
## CSI055 0.000000e+00      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0
## CSI076 2.890675e-05      0      0      0      0      0
##      0tu01406      0tu01407 0tu01408 0tu01409      0tu01410
## CSI001 1.876261e-04 6.566912e-04      0      0 0.000000e+00
## CSI012 8.624853e-05 7.589871e-04      0      0 0.000000e+00
## CSI022 0.000000e+00 2.151556e-05      0      0 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI055 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00      0      0 0.000000e+00
##      0tu01411 0tu01412 0tu01413 0tu01414      0tu01415      0tu01416
## CSI001 0.000000e+00      0      0      0 8.208640e-04 0.000000e+00
## CSI012 0.000000e+00      0      0      0 2.069965e-04 0.000000e+00
## CSI022 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00      0      0      0 0.000000e+00 1.971570e-05
## CSI055 2.151417e-05      0      0      0 1.290850e-04 3.227125e-04
## CSI065 0.000000e+00      0      0      0 0.000000e+00 3.101244e-03
## CSI076 1.156270e-04      0      0      0 0.000000e+00 0.000000e+00
##      0tu01417 0tu01418      0tu01419      0tu01420      0tu01421
## CSI001      0      0 0.000000e+00 9.381303e-05 0.000000e+00
## CSI012      0      0 0.000000e+00 5.174912e-05 0.000000e+00
## CSI022      0      0 0.000000e+00 4.303111e-05 0.000000e+00
## CSI044      0      0 7.886280e-05 0.000000e+00 0.000000e+00

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##	CSI055	0	0	2.151417e-05	4.302833e-05	0.000000e+00
##	CSI065	0	0	2.647404e-04	0.000000e+00	0.000000e+00
##	CSI076	0	0	2.890675e-05	8.672024e-05	2.890675e-05
##		0tu01422	0tu01423	0tu01424	0tu01425	0tu01426
##	CSI001	1.008490e-03	0.000000e+00	0.000000e+00	0	0
##	CSI012	2.759953e-04	1.724971e-05	1.724971e-05	0	0
##	CSI022	8.606222e-05	0.000000e+00	6.454667e-05	0	0
##	CSI044	0.000000e+00	0.000000e+00	3.943140e-05	0	0
##	CSI055	0.000000e+00	2.151417e-05	0.000000e+00	0	0
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI076	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##		0tu01428	0tu01429	0tu01430	0tu01431	0tu01432
##	CSI001	5.159717e-04	0	0	0.000000e+00	0.0000000000
##	CSI012	8.624853e-05	0	0	0.000000e+00	0.0000000000
##	CSI022	6.454667e-05	0	0	0.000000e+00	0.0000000000
##	CSI044	0.000000e+00	0	0	0.000000e+00	0.0000000000
##	CSI055	0.000000e+00	0	0	0.000000e+00	0.0000000000
##	CSI065	3.782005e-05	0	0	0.000000e+00	0.0001134602
##	CSI076	2.890675e-05	0	0	2.890675e-05	0.0005203214
##		0tu01433	0tu01434	0tu01435	0tu01436	0tu01437
##	CSI001	0.000000e+00	0.000000e+00	0.0017589943	0	0
##	CSI012	0.000000e+00	0.000000e+00	0.0000000000	0	0
##	CSI022	0.000000e+00	0.000000e+00	0.0000000000	0	0
##	CSI044	1.123795e-03	1.971570e-05	0.0000000000	0	0
##	CSI055	0.000000e+00	4.302833e-04	0.0000000000	0	0
##	CSI065	3.782005e-05	3.782005e-05	0.0000000000	0	0
##	CSI076	0.000000e+00	5.781349e-05	0.0001734405	0	0
##		0tu01439	0tu01440	0tu01441	0tu01442	0tu01443
##	CSI001	0	0	7.035977e-05	0	0
##	CSI012	0	0	3.449941e-05	0	0
##	CSI022	0	0	0.000000e+00	0	0
##	CSI044	0	0	0.000000e+00	0	0
##	CSI055	0	0	3.442267e-04	0	0
##	CSI065	0	0	3.403805e-04	0	0
##	CSI076	0	0	2.312540e-04	0	0
##		0tu01445	0tu01446	0tu01447	0tu01448	0tu01449
##	CSI001	9.381303e-05	0	0	0.000000e+00	0
##	CSI012	1.034982e-04	0	0	0.000000e+00	0
##	CSI022	1.075778e-04	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0	0.000000e+00	0
##	CSI055	0.000000e+00	0	0	0.000000e+00	0
##	CSI065	0.000000e+00	0	0	0.000000e+00	0
##	CSI076	0.000000e+00	0	0	2.890675e-05	0
##		0tu01451	0tu01452	0tu01453	0tu01454	0tu01455
##	CSI001	0	0.000000e+00	0.000000e+00	0	0
##	CSI012	0	0.000000e+00	2.242462e-04	0	0
##	CSI022	0	0.000000e+00	2.151556e-05	0	0
##	CSI044	0	0.000000e+00	0.000000e+00	0	0
##	CSI055	0	2.151417e-05	0.000000e+00	0	0
##	CSI065	0	0.000000e+00	0.000000e+00	0	0
##	CSI076	0	0.000000e+00	2.890675e-05	0	0
##		0tu01457	0tu01458	0tu01459	0tu01460	0tu01461
##	CSI001	0	0	0	1.172663e-04	4.690652e-05
##	CSI012	0	0	0	3.449941e-05	1.034982e-04

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## CSI022      0      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044      0      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055      0      0      0 4.302833e-05 0.000000e+00 1.290850e-04
## CSI065      0      0      0 3.782005e-05 0.000000e+00 5.673008e-04
## CSI076      0      0      0 6.648552e-04 0.000000e+00 2.890675e-05
##      0tu01463      0tu01464      0tu01465      0tu01466 0tu01467 0tu01468
## CSI001      0 0.000000e+00 0.000000e+00 0.000000e+00      0      0
## CSI012      0 5.347409e-04 0.000000e+00 0.000000e+00      0      0
## CSI022      0 1.506089e-04 0.000000e+00 0.000000e+00      0      0
## CSI044      0 0.000000e+00 0.000000e+00 0.000000e+00      0      0
## CSI055      0 2.151417e-05 0.000000e+00 5.808825e-04      0      0
## CSI065      0 0.000000e+00 3.782005e-05 0.000000e+00      0      0
## CSI076      0 0.000000e+00 0.000000e+00 6.070417e-04      0      0
##      0tu01469      0tu01470 0tu01471      0tu01472 0tu01473
## CSI001 4.690652e-05 0.000000e+00      0 0.000000000000      0
## CSI012 3.449941e-05 0.000000e+00      0 0.000000000000      0
## CSI022 4.303111e-05 4.303111e-05      0 0.000000000000      0
## CSI044 1.971570e-05 0.000000e+00      0 0.0000394314      0
## CSI055 6.454250e-05 0.000000e+00      0 0.0001505992      0
## CSI065 3.782005e-05 0.000000e+00      0 0.0005294807      0
## CSI076 2.890675e-05 0.000000e+00      0 0.000000000000      0
##      0tu01474      0tu01475 0tu01476 0tu01477 0tu01478 0tu01479
## CSI001 0.000000e+00 2.345326e-05      0      0      0      0
## CSI012 0.000000e+00 0.000000e+00      0      0      0      0
## CSI022 0.000000e+00 2.151556e-05      0      0      0      0
## CSI044 0.000000e+00 0.000000e+00      0      0      0      0
## CSI055 1.505992e-03 0.000000e+00      0      0      0      0
## CSI065 0.000000e+00 0.000000e+00      0      0      0      0
## CSI076 4.625079e-04 0.000000e+00      0      0      0      0
##      0tu01480      0tu01481 0tu01482 0tu01483      0tu01484      0tu01485
## CSI001      0 2.345326e-05      0      0 0.000000000000 7.035977e-05
## CSI012      0 0.000000e+00      0      0 0.000000000000 0.000000e+00
## CSI022      0 4.303111e-05      0      0 0.000000000000 0.000000e+00
## CSI044      0 0.000000e+00      0      0 0.000000000000 0.000000e+00
## CSI055      0 0.000000e+00      0      0 0.000000000000 0.000000e+00
## CSI065      0 0.000000e+00      0      0 0.0001134602 0.000000e+00
## CSI076      0 0.000000e+00      0      0 0.000000000000 0.000000e+00
##      0tu01486 0tu01487      0tu01488      0tu01489      0tu01490
## CSI001 0.000000000000      0 0.000000e+00 0.000000000000 0.000000e+00
## CSI012 0.000000000000      0 1.724971e-05 0.000000000000 0.000000e+00
## CSI022 0.000000000000      0 8.606222e-05 0.000000000000 0.000000e+00
## CSI044 0.000000000000      0 0.000000e+00 0.000000000000 3.943140e-04
## CSI055 0.0001505992      0 0.000000e+00 0.0002366558 8.605667e-05
## CSI065 0.000000000000      0 0.000000e+00 0.000000000000 0.000000e+00
## CSI076 0.000000000000      0 1.156270e-04 0.0001734405 0.000000e+00
##      0tu01491 0tu01492      0tu01493      0tu01494      0tu01495
## CSI001 2.345326e-05      0 0.000000000000 0.000000000000 0.000000e+00
## CSI012 0.000000e+00      0 0.000000000000 0.000000000000 0.000000e+00
## CSI022 0.000000e+00      0 0.000000000000 0.000000000000 0.000000e+00
## CSI044 0.000000e+00      0 0.000000000000 0.000000000000 3.94314e-05
## CSI055 1.075708e-04      0 0.000000000000 0.000000000000 0.000000e+00
## CSI065 0.000000e+00      0 0.0001134602 0.000000000000 0.000000e+00
## CSI076 2.890675e-05      0 0.000000000000 0.0001734405 0.000000e+00
##      0tu01496      0tu01497 0tu01498      0tu01499 0tu01500

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## CSI001 3.752521e-04 7.035977e-05 0 2.814391e-04 0
## CSI012 5.174912e-05 0.000000e+00 0 2.984199e-03 0
## CSI022 4.303111e-05 4.518267e-04 0 4.303111e-05 0
## CSI044 0.000000e+00 0.000000e+00 0 0.000000e+00 0
## CSI055 0.000000e+00 2.151417e-05 0 0.000000e+00 0
## CSI065 0.000000e+00 3.782005e-05 0 0.000000e+00 0
## CSI076 1.445337e-04 0.000000e+00 0 0.000000e+00 0
##      0tu01501      0tu01502      0tu01503      0tu01504      0tu01505
## CSI001 7.035977e-05 0.000000e+00 0.000000e+00 1.641728e-04 9.381303e-05
## CSI012 0.000000e+00 1.724971e-05 0.000000e+00 1.552474e-04 2.759953e-04
## CSI022 0.000000e+00 0.000000e+00 0.000000e+00 1.075778e-04 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076 5.781349e-05 2.312540e-04 0.000000e+00 0.000000e+00 0.000000e+00
##      0tu01506      0tu01507      0tu01508      0tu01509      0tu01510
## CSI001 0.0000000000 4.690652e-05 0 0.0000000000 0.000000e+00
## CSI012 0.0000000000 8.107362e-04 0 0.0001552474 0.000000e+00
## CSI022 0.0000000000 2.151556e-05 0 0.0012263867 0.000000e+00
## CSI044 0.0000197157 0.000000e+00 0 0.0000000000 3.943140e-05
## CSI055 0.0010326800 1.505992e-04 0 0.0000000000 4.302833e-05
## CSI065 0.0001512802 0.000000e+00 0 0.0000000000 3.782005e-05
## CSI076 0.0000000000 7.226687e-04 0 0.0000000000 0.000000e+00
##      0tu01511      0tu01512      0tu01513      0tu01514      0tu01515      0tu01516
## CSI001 0 0 0.000000e+00 2.579858e-04 0 5.159717e-04
## CSI012 0 0 0.000000e+00 5.174912e-05 0 1.034982e-04
## CSI022 0 0 2.151556e-05 3.442489e-04 0 1.527604e-03
## CSI044 0 0 0.000000e+00 0.000000e+00 0 0.000000e+00
## CSI055 0 0 6.454250e-05 1.118737e-03 0 0.000000e+00
## CSI065 0 0 7.564010e-05 0.000000e+00 0 0.000000e+00
## CSI076 0 0 1.734405e-04 1.734405e-04 0 0.000000e+00
##      0tu01517      0tu01518      0tu01519      0tu01520      0tu01521      0tu01522
## CSI001 0 0 0 0 0.000000e+00 0.000000e+00
## CSI012 0 0 0 0 0.000000e+00 0.000000e+00
## CSI022 0 0 0 0 0.000000e+00 2.151556e-05
## CSI044 0 0 0 0 0.000000e+00 0.000000e+00
## CSI055 0 0 0 0 0.000000e+00 1.721133e-04
## CSI065 0 0 0 0 0.000000e+00 0.000000e+00
## CSI076 0 0 0 0 0.000000e+00 5.781349e-05
##      0tu01523      0tu01524      0tu01525      0tu01526      0tu01527
## CSI001 4.690652e-05 0.0000000000 0.0000000000 0 4.690652e-05
## CSI012 0.000000e+00 0.0000000000 0.0000000000 0 5.174912e-05
## CSI022 2.151556e-05 0.0000000000 0.0000000000 0 4.518267e-04
## CSI044 1.380099e-04 0.0000000000 0.0000000000 0 0.000000e+00
## CSI055 5.378542e-04 0.000129085 0.0004302833 0 0.000000e+00
## CSI065 0.000000e+00 0.0000000000 0.0000000000 0 0.000000e+00
## CSI076 2.312540e-04 0.0000000000 0.0000000000 0 0.000000e+00
##      0tu01528      0tu01529      0tu01530      0tu01531      0tu01532
## CSI001 0.0000000000 0.000000e+00 2.814391e-04 9.381303e-05 4.690652e-05
## CSI012 0.0000000000 0.000000e+00 2.759953e-04 0.000000e+00 1.724971e-04
## CSI022 0.0000000000 1.269418e-03 4.303111e-05 8.606222e-05 2.366711e-04
## CSI044 0.0000000000 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 0.0000000000 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI065 0.0000000000 1.134602e-04 0.000000e+00 0.000000e+00 0.000000e+00

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## CSI076 0.000000000 0.000000e+00 2.890675e-05 0.000000e+00 0.000000e+00
##      0tu01533      0tu01534 0tu01535 0tu01536 0tu01537      0tu01538
## CSI001      0 2.345326e-05      0      0      0 4.690652e-05
## CSI012      0 1.724971e-05      0      0      0 1.362727e-03
## CSI022      0 2.151556e-05      0      0      0 4.303111e-05
## CSI044      0 0.000000e+00      0      0      0 0.000000e+00
## CSI055      0 3.657408e-04      0      0      0 8.605667e-05
## CSI065      0 0.000000e+00      0      0      0 1.134602e-04
## CSI076      0 0.000000e+00      0      0      0 8.672024e-05
##      0tu01539      0tu01540 0tu01541      0tu01542 0tu01543      0tu01544
## CSI001      0 9.381303e-05      0 0.000000000      0 0.000000e+00
## CSI012      0 8.624853e-05      0 0.000000000      0 0.000000e+00
## CSI022      0 1.721244e-04      0 0.000000000      0 0.000000e+00
## CSI044      0 0.000000e+00      0 0.000000000      0 4.140297e-04
## CSI055      0 0.000000e+00      0 0.000000000      0 8.605667e-05
## CSI065      0 0.000000e+00      0 0.000000000      0 0.000000e+00
## CSI076      0 0.000000e+00      0 0.000000000      0 0.000000e+00
##      0tu01545      0tu01546      0tu01547 0tu01548      0tu01549
## CSI001      0 0.000000e+00 2.814391e-04      0 0.0001641728
## CSI012      0 1.034982e-04 4.484924e-04      0 0.0001552474
## CSI022      0 0.000000e+00 0.000000e+00      0 0.0000000000
## CSI044      0 0.000000e+00 0.000000e+00      0 0.0000000000
## CSI055      0 0.000000e+00 4.302833e-05      0 0.0001505992
## CSI065      0 0.000000e+00 0.000000e+00      0 0.0001891003
## CSI076      0 8.672024e-05 0.000000e+00      0 0.0001445337
##      0tu01550 0tu01551      0tu01552      0tu01553 0tu01554 0tu01555
## CSI001 0.000000e+00      0 7.035977e-05 7.035977e-05      0      0
## CSI012 6.899883e-05      0 5.174912e-05 0.000000e+00      0      0
## CSI022 2.151556e-05      0 6.454667e-05 0.000000e+00      0      0
## CSI044 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI055 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI065 0.000000e+00      0 1.134602e-04 0.000000e+00      0      0
## CSI076 0.000000e+00      0 3.179742e-04 0.000000e+00      0      0
##      0tu01556      0tu01557      0tu01558      0tu01559      0tu01560
## CSI001      0 1.172663e-04 0.000000e+00 4.690652e-05 7.505042e-04
## CSI012      0 3.967433e-04 0.000000e+00 6.899883e-05 1.724971e-04
## CSI022      0 1.290933e-04 0.000000e+00 2.151556e-04 0.000000e+00
## CSI044      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI065      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076      0 0.000000e+00 0.000000e+00 5.781349e-05 1.734405e-04
##      0tu01561 0tu01562      0tu01563 0tu01564 0tu01565      0tu01566
## CSI001      0      0 0.000000e+00      0      0 1.758994e-03
## CSI012      0      0 0.000000e+00      0      0 1.552474e-04
## CSI022      0      0 0.000000e+00      0      0 2.151556e-05
## CSI044      0      0 0.000000e+00      0      0 0.000000e+00
## CSI055      0      0 2.151417e-05      0      0 0.000000e+00
## CSI065      0      0 0.000000e+00      0      0 0.000000e+00
## CSI076      0      0 0.000000e+00      0      0 0.000000e+00
##      0tu01567      0tu01568 0tu01569      0tu01570 0tu01571      0tu01572
## CSI001      0 0.000000e+00      0 4.221586e-04      0 0.0008443173
## CSI012      0 0.000000e+00      0 1.724971e-05      0 0.0001897468
## CSI022      0 0.000000e+00      0 0.000000e+00      0 0.0000000000
## CSI044      0 0.000000e+00      0 0.000000e+00      0 0.0000000000

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##	CSI055	0	0.000000e+00	0	0.000000e+00	0	0.0000000000
##	CSI065	0	3.782005e-04	0	0.000000e+00	0	0.0000000000
##	CSI076	0	0.000000e+00	0	1.734405e-04	0	0.0000000000
##		0tu01573	0tu01574	0tu01575	0tu01576	0tu01577	0tu01578
##	CSI001	0	0	0	0	0	0.0000000000
##	CSI012	0	0	0	0	0	0.0000000000
##	CSI022	0	0	0	0	0	0.0000000000
##	CSI044	0	0	0	0	0	0.0000000000
##	CSI055	0	0	0	0	0	0.0001936275
##	CSI065	0	0	0	0	0	0.0000000000
##	CSI076	0	0	0	0	0	0.0000000000
##		0tu01579	0tu01580	0tu01581	0tu01582	0tu01583	0tu01584
##	CSI001	0.000000000	0	2.228059e-03	9.850368e-04	4.690652e-05	0
##	CSI012	0.000000000	0	1.207479e-04	0.000000e+00	1.724971e-05	0
##	CSI022	0.000000000	0	2.151556e-05	0.000000e+00	0.000000e+00	0
##	CSI044	0.000000000	0	0.000000e+00	0.000000e+00	1.971570e-05	0
##	CSI055	0.000000000	0	0.000000e+00	0.000000e+00	1.075708e-03	0
##	CSI065	0.000000000	0	0.000000e+00	0.000000e+00	7.564010e-05	0
##	CSI076	0.000000000	0	0.000000e+00	0.000000e+00	3.035208e-03	0
##		0tu01585	0tu01586	0tu01587	0tu01588	0tu01589	0tu01590
##	CSI001	0	0	2.345326e-05	0	0	0.000000e+00
##	CSI012	0	0	6.899883e-05	0	0	0.000000e+00
##	CSI022	0	0	2.151556e-05	0	0	0.000000e+00
##	CSI044	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI055	0	0	0.000000e+00	0	0	3.227125e-04
##	CSI065	0	0	0.000000e+00	0	0	3.782005e-05
##	CSI076	0	0	0.000000e+00	0	0	5.781349e-05
##		0tu01591	0tu01592	0tu01593	0tu01594	0tu01595	0tu01596
##	CSI001	0.000000e+00	0	2.345326e-05	0.000000e+00	0	0
##	CSI012	0.000000e+00	0	3.449941e-05	0.000000e+00	0	0
##	CSI022	2.151556e-05	0	4.303111e-05	0.000000e+00	0	0
##	CSI044	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI055	4.302833e-05	0	0.000000e+00	0.000000e+00	0	0
##	CSI065	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI076	1.156270e-04	0	0.000000e+00	0.000000e+00	0	0
##		0tu01597	0tu01598	0tu01599	0tu01600	0tu01601	
##	CSI001	0	2.345326e-05	0.000000e+00	4.690652e-05	5.628782e-04	
##	CSI012	0	0.000000e+00	0.000000e+00	1.379977e-04	1.724971e-05	
##	CSI022	0	0.000000e+00	0.000000e+00	4.303111e-05	0.000000e+00	
##	CSI044	0	1.320952e-03	2.365884e-04	0.000000e+00	0.000000e+00	
##	CSI055	0	0.000000e+00	0.000000e+00	3.442267e-04	2.151417e-05	
##	CSI065	0	5.181347e-03	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI076	0	1.156270e-04	0.000000e+00	2.312540e-04	8.672024e-05	
##		0tu01602	0tu01603	0tu01604	0tu01605	0tu01606	0tu01607
##	CSI001	0	0.000000e+00	0.000000e+00	0	0	4.690652e-05
##	CSI012	0	0.000000e+00	0.000000e+00	0	0	6.899883e-05
##	CSI022	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI055	0	0.000000e+00	8.605667e-05	0	0	0.000000e+00
##	CSI065	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI076	0	0.000000e+00	2.023472e-04	0	0	6.648552e-04
##		0tu01608	0tu01609	0tu01610	0tu01611	0tu01612	0tu01613
##	CSI001	0	0	0	7.035977e-05	0	0.0000000000
##	CSI012	0	0	0	2.759953e-04	0	0.0002759953

##	CSI022	0	0	0 1.721244e-04	0 0.0000000000
##	CSI044	0	0	0 0.000000e+00	0 0.0000000000
##	CSI055	0	0	0 2.151417e-05	0 0.0000000000
##	CSI065	0	0	0 0.000000e+00	0 0.0000000000
##	CSI076	0	0	0 0.000000e+00	0 0.0000000000
##		0tu01614	0tu01615	0tu01616	0tu01617 0tu01618
##	CSI001	0.000000e+00	0.000000e+00	4.925184e-04	0 0.000000e+00
##	CSI012	0.000000e+00	0.000000e+00	1.379977e-04	0 0.000000e+00
##	CSI022	0.000000e+00	0.000000e+00	2.151556e-05	0 0.000000e+00
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0 0.000000e+00
##	CSI055	0.000000e+00	6.45425e-05	0.000000e+00	0 8.820809e-04
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0 1.512802e-04
##	CSI076	2.890675e-05	0.000000e+00	0.000000e+00	0 1.098456e-03
##		0tu01619	0tu01620	0tu01621	0tu01622 0tu01623 0tu01624
##	CSI001	0 2.110793e-04		0	0 0.000000e+00 0
##	CSI012	0 2.242462e-04		0	0 0.000000e+00 0
##	CSI022	0 0.000000e+00		0	0 0.000000e+00 0
##	CSI044	0 0.000000e+00		0	0 0.000000e+00 0
##	CSI055	0 0.000000e+00		0	0 8.605667e-05 0
##	CSI065	0 0.000000e+00		0	0 0.000000e+00 0
##	CSI076	0 0.000000e+00		0	0 0.000000e+00 0
##		0tu01625	0tu01626	0tu01627	0tu01628 0tu01629 0tu01630
##	CSI001	9.381303e-05	0	0 0.0001641728	0 0
##	CSI012	8.624853e-05	0	0 0.0008107362	0 0
##	CSI022	0.000000e+00	0	0 0.0000000000	0 0
##	CSI044	5.914710e-05	0	0 0.0000000000	0 0
##	CSI055	4.302833e-04	0	0 0.0000000000	0 0
##	CSI065	1.134602e-04	0	0 0.0000000000	0 0
##	CSI076	0.000000e+00	0	0 0.0000000000	0 0
##		0tu01631	0tu01632	0tu01633	0tu01634 0tu01635 0tu01636
##	CSI001	0 0.0000000000		0	0 1.407195e-04 2.345326e-05
##	CSI012	0 0.0000000000		0	0 5.174912e-05 0.000000e+00
##	CSI022	0 0.0000000000		0	0 2.151556e-05 0.000000e+00
##	CSI044	0 0.0000000000		0	0 0.000000e+00 0.000000e+00
##	CSI055	0 0.0003227125		0	0 1.936275e-04 1.290850e-04
##	CSI065	0 0.0000000000		0	0 0.000000e+00 3.403805e-04
##	CSI076	0 0.0001445337		0	0 0.000000e+00 5.781349e-05
##		0tu01637	0tu01638	0tu01639	0tu01640 0tu01641
##	CSI001	3.283456e-04	0 0.000000e+00	0.000000e+00	0
##	CSI012	1.552474e-04	0 0.000000e+00	0.000000e+00	0
##	CSI022	8.606222e-05	0 0.000000e+00	0.000000e+00	0
##	CSI044	0.000000e+00	0 0.000000e+00	0.000000e+00	0
##	CSI055	0.000000e+00	0 0.000000e+00	4.733117e-04	0
##	CSI065	0.000000e+00	0 0.000000e+00	0.000000e+00	0
##	CSI076	0.000000e+00	0 8.672024e-05	3.757877e-04	0
##		0tu01642	0tu01643	0tu01644	0tu01645 0tu01646 0tu01647
##	CSI001	0.000000e+00	2.345326e-05	0	0 0 0 0.0000000000
##	CSI012	5.174912e-05	1.724971e-05	0	0 0 0 0.0000000000
##	CSI022	1.290933e-04	0.000000e+00	0	0 0 0 0.0000000000
##	CSI044	0.000000e+00	1.971570e-05	0	0 0 0 0.0000000000
##	CSI055	2.581700e-04	0.000000e+00	0	0 0 0 0.0000000000
##	CSI065	0.000000e+00	6.429409e-04	0	0 0 0 0.0000000000
##	CSI076	0.000000e+00	2.890675e-05	0	0 0 0 0.0000000000
##		0tu01648	0tu01649	0tu01650	0tu01651 0tu01652 0tu01653

##	CSI001	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI012	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI044	0.000000e+00	1.971570e-05	0	3.943140e-05	0	0
##	CSI055	8.605667e-05	4.302833e-05	0	6.454250e-05	0	0
##	CSI065	0.000000e+00	0.000000e+00	0	1.512802e-04	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	1.734405e-04	0	0
##		Otu01654	Otu01655	Otu01656	Otu01657	Otu01658	
##	CSI001	0	0.000000e+00	0.000000e+00	0	0.0003987054	
##	CSI012	0	0.000000e+00	0.000000e+00	0	0.0004139930	
##	CSI022	0	0.000000e+00	0.000000e+00	0	0.0002581867	
##	CSI044	0	0.000000e+00	0.000000e+00	0	0.0000000000	
##	CSI055	0	3.011983e-04	4.517975e-04	0	0.0000000000	
##	CSI065	0	0.000000e+00	1.891003e-04	0	0.0000000000	
##	CSI076	0	0.000000e+00	8.672024e-05	0	0.0000000000	
##		Otu01659	Otu01660	Otu01661	Otu01662	Otu01663	Otu01664
##	CSI001	3.752521e-04	0.000000e+00	0	0	0	7.035977e-05
##	CSI012	7.762368e-04	0.000000e+00	0	0	0	4.484924e-04
##	CSI022	2.151556e-05	4.303111e-05	0	0	0	1.075778e-04
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	1.075708e-04
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	2.269203e-04
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	8.672024e-05
##		Otu01665	Otu01666	Otu01667	Otu01668	Otu01669	
##	CSI001	2.345326e-05	0.000000e+00	1.243023e-03	1.641728e-04	0.000000e+00	
##	CSI012	1.724971e-05	0.000000e+00	2.242462e-04	5.174912e-05	0.000000e+00	
##	CSI022	0.000000e+00	0.000000e+00	2.581867e-04	0.000000e+00	0.000000e+00	
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	1.97157e-05	
##	CSI055	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI076	2.890675e-04	0.000000e+00	2.890675e-05	2.890675e-05	0.000000e+00	
##		Otu01670	Otu01671	Otu01672	Otu01673	Otu01674	Otu01675
##	CSI001	2.345326e-05	0	7.035977e-05	0	0	0
##	CSI012	8.624853e-05	0	0.000000e+00	0	0	0
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI055	0.000000e+00	0	2.151417e-05	0	0	0
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI076	1.156270e-04	0	1.214083e-03	0	0	0
##		Otu01676	Otu01677	Otu01678	Otu01679	Otu01680	Otu01681
##	CSI001	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	1.207479e-04	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0
##		Otu01683	Otu01684	Otu01685	Otu01686	Otu01687	Otu01688
##	CSI001	2.345326e-05	0	0	0	3.517989e-04	0
##	CSI012	1.897468e-04	0	0	0	2.587456e-04	0
##	CSI022	2.151556e-05	0	0	0	3.012178e-04	0
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0

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## CSI076 0.000000e+00      0      0      0 0.000000e+00      0
##      0tu01689 0tu01690 0tu01691 0tu01692      0tu01693      0tu01694
## CSI001      0      0      0      0 7.035977e-05 2.345326e-05
## CSI012      0      0      0      0 1.724971e-05 8.624853e-05
## CSI022      0      0      0      0 0.000000e+00 2.151556e-05
## CSI044      0      0      0      0 0.000000e+00 0.000000e+00
## CSI055      0      0      0      0 8.605667e-05 0.000000e+00
## CSI065      0      0      0      0 3.782005e-05 0.000000e+00
## CSI076      0      0      0      0 2.023472e-04 0.000000e+00
##      0tu01695 0tu01696 0tu01697      0tu01698 0tu01699      0tu01700
## CSI001      0      0      0 0.000000e+00      0 2.345326e-05
## CSI012      0      0      0 0.000000e+00      0 6.899883e-05
## CSI022      0      0      0 2.151556e-05      0 0.000000e+00
## CSI044      0      0      0 0.000000e+00      0 0.000000e+00
## CSI055      0      0      0 0.000000e+00      0 0.000000e+00
## CSI065      0      0      0 7.904391e-03      0 0.000000e+00
## CSI076      0      0      0 0.000000e+00      0 0.000000e+00
##      0tu01701 0tu01702 0tu01703 0tu01704 0tu01705 0tu01706
## CSI001 0.0000000000      0      0      0      0      0
## CSI012 0.0000000000      0      0      0      0      0
## CSI022 0.0000000000      0      0      0      0      0
## CSI044 0.0000197157      0      0      0      0      0
## CSI055 0.0000000000      0      0      0      0      0
## CSI065 0.0000000000      0      0      0      0      0
## CSI076 0.0000000000      0      0      0      0      0
##      0tu01707      0tu01708 0tu01709      0tu01710      0tu01711
## CSI001 0.000000e+00 0.0000000000      0 0.000000e+00 7.035977e-05
## CSI012 0.000000e+00 0.0000000000      0 0.000000e+00 1.724971e-05
## CSI022 0.000000e+00 0.0000000000      0 2.151556e-05 1.506089e-04
## CSI044 0.000000e+00 0.0000000000      0 0.000000e+00 0.000000e+00
## CSI055 8.605667e-05 0.0007099675      0 1.290850e-04 0.000000e+00
## CSI065 0.000000e+00 0.0001512802      0 3.782005e-05 0.000000e+00
## CSI076 0.000000e+00 0.0000000000      0 1.734405e-04 0.000000e+00
##      0tu01712      0tu01713 0tu01714 0tu01715      0tu01716
## CSI001 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI012 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI022 2.151556e-05 0.000000e+00      0      0 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0      0 1.97157e-05
## CSI055 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00      0      0 0.000000e+00
##      0tu01717      0tu01718 0tu01719      0tu01720      0tu01721
## CSI001 0.000000e+00 0.0000000000      0 0.000000e+00 1.407195e-04
## CSI012 0.000000e+00 0.0000000000      0 0.000000e+00 8.624853e-05
## CSI022 0.000000e+00 0.0000000000      0 0.000000e+00 3.227333e-04
## CSI044 0.000000e+00 0.0000000000      0 0.000000e+00 0.000000e+00
## CSI055 1.721133e-04 0.0000000000      0 2.151417e-05 0.000000e+00
## CSI065 0.000000e+00 0.0000000000      0 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00 0.0006648552      0 1.445337e-04 0.000000e+00
##      0tu01722      0tu01723      0tu01724 0tu01725      0tu01726
## CSI001      0 0.000000e+00 0.000000e+00      0 2.345326e-05
## CSI012      0 0.000000e+00 0.000000e+00      0 1.379977e-04
## CSI022      0 0.000000e+00 0.000000e+00      0 4.303111e-05
## CSI044      0 0.000000e+00 0.000000e+00      0 0.000000e+00

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## CSI055      0 0.000000e+00 6.454250e-05      0 1.075708e-04
## CSI065      0 0.000000e+00 1.512802e-04      0 7.564010e-05
## CSI076      0 0.000000e+00 5.781349e-05      0 3.179742e-04
##      0tu01727      0tu01728      0tu01729      0tu01730 0tu01731
## CSI001 0.000000e+00 0.000000e+00 0.0000000000 2.345326e-05      0
## CSI012 2.587456e-04 0.000000e+00 0.0000000000 0.000000e+00      0
## CSI022 2.151556e-05 0.000000e+00 0.0000000000 0.000000e+00      0
## CSI044 0.000000e+00 0.000000e+00 0.0000000000 0.000000e+00      0
## CSI055 0.000000e+00 0.000000e+00 0.0004948258 0.000000e+00      0
## CSI065 0.000000e+00 3.782005e-05 0.0000000000 0.000000e+00      0
## CSI076 0.000000e+00 0.000000e+00 0.0000000000 0.000000e+00      0
##      0tu01732      0tu01733      0tu01734      0tu01735 0tu01736
## CSI001 0.000000e+00 4.925184e-04 2.345326e-04 2.345326e-05      0
## CSI012 0.000000e+00 5.174912e-04 6.899883e-05 0.000000e+00      0
## CSI022 0.000000e+00 2.151556e-05 2.151556e-05 0.000000e+00      0
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI055 6.239108e-04 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI076 1.127363e-03 0.000000e+00 0.000000e+00 2.890675e-05      0
##      0tu01737 0tu01738 0tu01739 0tu01740      0tu01741 0tu01742 0tu01743
## CSI001      0      0      0      0 0.0000000000      0      0
## CSI012      0      0      0      0 0.0000000000      0      0
## CSI022      0      0      0      0 0.0000000000      0      0
## CSI044      0      0      0      0 0.0000197157      0      0
## CSI055      0      0      0      0 0.0000000000      0      0
## CSI065      0      0      0      0 0.0000000000      0      0
## CSI076      0      0      0      0 0.0000000000      0      0
##      0tu01744      0tu01745      0tu01746 0tu01747      0tu01748
## CSI001 0.000000e+00 0.0000000000 0.000000e+00      0 2.110793e-04
## CSI012 1.724971e-05 0.0000000000 5.174912e-05      0 1.724971e-05
## CSI022 0.000000e+00 0.0000000000 1.290933e-04      0 4.303111e-05
## CSI044 0.000000e+00 0.0000000000 0.000000e+00      0 0.000000e+00
## CSI055 0.000000e+00 0.0000645425 1.290850e-04      0 0.000000e+00
## CSI065 0.000000e+00 0.0000000000 0.000000e+00      0 0.000000e+00
## CSI076 0.000000e+00 0.0000000000 2.312540e-04      0 2.312540e-04
##      0tu01749      0tu01750 0tu01751 0tu01752      0tu01753      0tu01754
## CSI001      0 2.814391e-04      0      0 0.000000e+00 0.0000000000
## CSI012      0 2.069965e-04      0      0 5.174912e-05 0.0007244877
## CSI022      0 6.454667e-05      0      0 8.606222e-05 0.0002797022
## CSI044      0 0.000000e+00      0      0 0.000000e+00 0.0000000000
## CSI055      0 0.000000e+00      0      0 0.000000e+00 0.0000000000
## CSI065      0 3.782005e-05      0      0 0.000000e+00 0.0000000000
## CSI076      0 1.156270e-04      0      0 0.000000e+00 0.0000000000
##      0tu01755 0tu01756      0tu01757      0tu01758 0tu01759
## CSI001 0.0008912238      0 0.000000e+00 0.0000000000      0
## CSI012 0.0004484924      0 0.000000e+00 0.0000000000      0
## CSI022 0.0000000000      0 6.454667e-05 0.0000000000      0
## CSI044 0.0000000000      0 0.000000e+00 0.0000394314      0
## CSI055 0.0000000000      0 0.000000e+00 0.0031410684      0
## CSI065 0.0000000000      0 0.000000e+00 0.0000000000      0
## CSI076 0.0000000000      0 0.000000e+00 0.0000000000      0
##      0tu01760      0tu01761      0tu01762      0tu01763 0tu01764
## CSI001 7.035977e-05 1.172663e-04 0.000000e+00 1.407195e-04      0
## CSI012 1.724971e-05 8.624853e-05 0.000000e+00 1.897468e-04      0

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## CSI022 0.000000e+00 4.087956e-04 0.000000e+00 2.151556e-05 0
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0
## CSI055 0.000000e+00 6.454250e-04 2.151417e-05 0.000000e+00 0
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0
## CSI076 0.000000e+00 9.828294e-04 0.000000e+00 0.000000e+00 0
##      0tu01765      0tu01766      0tu01767 0tu01768 0tu01769
## CSI001 0.000000e+00 0.0001407195 7.035977e-05 0 0
## CSI012 3.449941e-05 0.0002932450 0.000000e+00 0 0
## CSI022 1.506089e-04 0.0002151556 8.606222e-05 0 0
## CSI044 0.000000e+00 0.0000000000 0.000000e+00 0 0
## CSI055 0.000000e+00 0.0000000000 0.000000e+00 0 0
## CSI065 0.000000e+00 0.0000000000 0.000000e+00 0 0
## CSI076 0.000000e+00 0.0000000000 0.000000e+00 0 0
##      0tu01770      0tu01771      0tu01772 0tu01773 0tu01774
## CSI001 0.000000e+00 0.000000e+00 0.000000e+00 0 0
## CSI012 0.000000e+00 0.000000e+00 0.000000e+00 0 0
## CSI022 0.000000e+00 0.000000e+00 0.000000e+00 0 0
## CSI044 0.000000e+00 0.000000e+00 1.971570e-05 0 0
## CSI055 1.075708e-04 0.000000e+00 1.226308e-03 0 0
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0 0
## CSI076 5.781349e-05 2.890675e-05 1.098456e-03 0 0
##      0tu01775      0tu01776      0tu01777      0tu01778 0tu01779
## CSI001 0.0031192833 0.000000e+00 0.000000000 3.987054e-04 0
## CSI012 0.0000000000 3.449941e-05 0.000000000 0.000000e+00 0
## CSI022 0.0000000000 2.151556e-05 0.000000000 0.000000e+00 0
## CSI044 0.0000000000 0.000000e+00 0.000000000 0.000000e+00 0
## CSI055 0.0000000000 0.000000e+00 0.000000000 2.151417e-05 0
## CSI065 0.0000000000 7.564010e-05 0.004424946 0.000000e+00 0
## CSI076 0.0000000000 0.000000e+00 0.000000000 0.000000e+00 0
##      0tu01780      0tu01781      0tu01782 0tu01783 0tu01784 0tu01785
## CSI001 0 0.000000e+00 0.0000000000 0 0 0
## CSI012 0 0.000000e+00 0.0000000000 0 0 0
## CSI022 0 2.151556e-05 0.0000000000 0 0 0
## CSI044 0 0.000000e+00 0.0000591471 0 0 0
## CSI055 0 0.000000e+00 0.0000000000 0 0 0
## CSI065 0 0.000000e+00 0.0000000000 0 0 0
## CSI076 0 0.000000e+00 0.0010406429 0 0 0
##      0tu01786      0tu01787 0tu01788      0tu01789 0tu01790
## CSI001 1.641728e-04 0.000000e+00 0 0.000000e+00 0
## CSI012 0.000000e+00 0.000000e+00 0 0.000000e+00 0
## CSI022 0.000000e+00 8.606222e-05 0 0.000000e+00 0
## CSI044 0.000000e+00 0.000000e+00 0 0.000000e+00 0
## CSI055 0.000000e+00 0.000000e+00 0 0.000000e+00 0
## CSI065 0.000000e+00 7.564010e-05 0 0.000000e+00 0
## CSI076 0.000000e+00 0.000000e+00 0 0.000000e+00 0
##      0tu01791 0tu01792      0tu01793      0tu01794      0tu01795
## CSI001 0.000000e+00 0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI012 1.724971e-05 0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI022 0.000000e+00 0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00 0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00 0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00 0 0.000000e+00 0.000000e+00 4.916607e-03
## CSI076 0.000000e+00 0 0.000000e+00 2.890675e-05 0.000000e+00
##      0tu01796      0tu01797      0tu01798 0tu01799 0tu01800      0tu01801

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##	CSI001	0	0.000000e+00	9.381303e-05	0	0	0.000000e+00
##	CSI012	0	0.000000e+00	1.724971e-05	0	0	0.000000e+00
##	CSI022	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI055	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI065	0	3.782005e-05	0.000000e+00	0	0	0.000000e+00
##	CSI076	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	0tu01802	0tu01803	0tu01804	0tu01805	0tu01806	0tu01807	
##	CSI001	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI012	0	8.624853e-05	0.000000e+00	0	0	0
##	CSI022	0	1.290933e-04	0.000000e+00	0	0	0
##	CSI044	0	7.886280e-05	0.000000e+00	0	0	0
##	CSI055	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI065	0	0.000000e+00	3.782005e-05	0	0	0
##	CSI076	0	0.000000e+00	0.000000e+00	0	0	0
##	0tu01808	0tu01809	0tu01810	0tu01811	0tu01812	0tu01813	
##	CSI001	0	0.0003283456	4.690652e-05	0	0	0.000000e+00
##	CSI012	0	0.0000000000	0.000000e+00	0	0	0.000000e+00
##	CSI022	0	0.0000000000	2.151556e-05	0	0	2.151556e-05
##	CSI044	0	0.0000000000	0.000000e+00	0	0	0.000000e+00
##	CSI055	0	0.0000000000	3.442267e-04	0	0	0.000000e+00
##	CSI065	0	0.0000000000	0.000000e+00	0	0	0.000000e+00
##	CSI076	0	0.0000000000	8.672024e-05	0	0	0.000000e+00
##	0tu01814	0tu01815	0tu01816	0tu01817	0tu01818	0tu01819	
##	CSI001	0	3.987054e-04	7.035977e-05	0	0	0
##	CSI012	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI022	0	4.303111e-05	0.000000e+00	0	0	0
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI055	0	5.163400e-04	6.023967e-04	0	0	0
##	CSI065	0	0.000000e+00	3.782005e-05	0	0	0
##	CSI076	0	0.000000e+00	0.000000e+00	0	0	0
##	0tu01820	0tu01821	0tu01822	0tu01823	0tu01824		
##	CSI001	0	0.000000e+00	0	0.0003048923	0.000000e+00	
##	CSI012	0	0.000000e+00	0	0.0000000000	5.174912e-05	
##	CSI022	0	4.303111e-05	0	0.0001506089	2.151556e-05	
##	CSI044	0	0.000000e+00	0	0.0000000000	0.000000e+00	
##	CSI055	0	0.000000e+00	0	0.0000000000	0.000000e+00	
##	CSI065	0	0.000000e+00	0	0.0000000000	3.782005e-05	
##	CSI076	0	0.000000e+00	0	0.0000000000	0.000000e+00	
##	0tu01825	0tu01826	0tu01827	0tu01828	0tu01829		
##	CSI001	2.345326e-05	0	0.000000e+00	0.000000e+00	0.0000000000	
##	CSI012	6.899883e-05	0	0.000000e+00	0.000000e+00	0.0000000000	
##	CSI022	0.000000e+00	0	2.151556e-05	0.000000e+00	0.0009897156	
##	CSI044	0.000000e+00	0	0.000000e+00	0.000000e+00	0.0000000000	
##	CSI055	0.000000e+00	0	3.442267e-04	0.000000e+00	0.0000000000	
##	CSI065	0.000000e+00	0	3.782005e-05	0.000000e+00	0.0000000000	
##	CSI076	0.000000e+00	0	0.000000e+00	0.000000e+00	0.0000000000	
##	0tu01830	0tu01831	0tu01832	0tu01833	0tu01834	0tu01835	
##	CSI001	0.000000e+00	0	0	0.000000e+00	0.0000000000	0
##	CSI012	0.000000e+00	0	0	0.000000e+00	0.0000000000	0
##	CSI022	0.000000e+00	0	0	2.151556e-05	0.0000000000	0
##	CSI044	0.000000e+00	0	0	0.000000e+00	0.0000000000	0
##	CSI055	6.454250e-05	0	0	1.505992e-04	0.0000000000	0
##	CSI065	7.564010e-05	0	0	0.000000e+00	0.0000000000	0

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## CSI076 0.000000e+00      0      0 5.781349e-05 0.0002312540      0
##      0tu01836      0tu01837 0tu01838      0tu01839 0tu01840 0tu01841
## CSI001 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI012 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI022 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI044 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI055 2.151417e-05 1.979303e-03      0 4.302833e-05      0      0
## CSI065 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI076 0.000000e+00 2.601607e-04      0 5.781349e-05      0      0
##      0tu01842      0tu01843 0tu01844      0tu01845 0tu01846 0tu01847
## CSI001 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI012 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI022 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI044 7.886280e-05 0.000000e+00      0 0.000000e+00      0      0
## CSI055 6.454250e-05 2.151417e-05      0 0.000000e+00      0      0
## CSI065 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI076 0.000000e+00 0.000000e+00      0 8.672024e-05      0      0
##      0tu01848      0tu01849 0tu01850      0tu01851      0tu01852
## CSI001      0 2.345326e-05      0 3.987054e-04 0.000000e+00
## CSI012      0 4.484924e-04      0 6.899883e-05 0.000000e+00
## CSI022      0 2.581867e-04      0 0.000000e+00 4.303111e-05
## CSI044      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI055      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI065      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI076      0 0.000000e+00      0 0.000000e+00 0.000000e+00
##      0tu01853 0tu01854 0tu01855 0tu01856      0tu01857 0tu01858
## CSI001 0.000000e+00      0      0      0 0.0000000000      0
## CSI012 0.000000e+00      0      0      0 0.0000000000      0
## CSI022 0.000000e+00      0      0      0 0.0000000000      0
## CSI044 0.000000e+00      0      0      0 0.0000000000      0
## CSI055 8.605667e-05      0      0      0 0.0002366558      0
## CSI065 3.782005e-05      0      0      0 0.0000000000      0
## CSI076 0.000000e+00      0      0      0 0.0000000000      0
##      0tu01859 0tu01860 0tu01861      0tu01862 0tu01863 0tu01864
## CSI001 2.345326e-04      0      0 0.0000000000      0      0
## CSI012 2.759953e-04      0      0 0.0000000000      0      0
## CSI022 1.290933e-04      0      0 0.0000000000      0      0
## CSI044 0.000000e+00      0      0 0.0000000000      0      0
## CSI055 0.000000e+00      0      0 0.0001505992      0      0
## CSI065 0.000000e+00      0      0 0.0000000000      0      0
## CSI076 0.000000e+00      0      0 0.0000000000      0      0
##      0tu01865 0tu01866 0tu01867 0tu01868 0tu01869 0tu01870 0tu01871
## CSI001 0.0001641728      0      0      0      0      0      0
## CSI012 0.0001207479      0      0      0      0      0      0
## CSI022 0.0002797022      0      0      0      0      0      0
## CSI044 0.0000000000      0      0      0      0      0      0
## CSI055 0.0000000000      0      0      0      0      0      0
## CSI065 0.0000000000      0      0      0      0      0      0
## CSI076 0.0000000000      0      0      0      0      0      0
##      0tu01872      0tu01873 0tu01874      0tu01875 0tu01876 0tu01877
## CSI001 1.641728e-04 2.345326e-05      0 4.690652e-05      0      0
## CSI012 8.624853e-05 0.000000e+00      0 1.724971e-05      0      0
## CSI022 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI044 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0

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## CSI055 0.000000e+00 4.733117e-04      0 1.075708e-04      0      0
## CSI065 0.000000e+00 0.000000e+00      0 3.782005e-05      0      0
## CSI076 5.781349e-05 2.890675e-05      0 2.023472e-04      0      0
##      0tu01878      0tu01879 0tu01880 0tu01881 0tu01882 0tu01883
## CSI001 4.456119e-04 2.345326e-05      0      0      0      0
## CSI012 3.967433e-04 5.174912e-04      0      0      0      0
## CSI022 1.721244e-04 8.606222e-05      0      0      0      0
## CSI044 0.000000e+00 0.000000e+00      0      0      0      0
## CSI055 0.000000e+00 0.000000e+00      0      0      0      0
## CSI065 0.000000e+00 0.000000e+00      0      0      0      0
## CSI076 0.000000e+00 0.000000e+00      0      0      0      0
##      0tu01884 0tu01885      0tu01886      0tu01887 0tu01888 0tu01889
## CSI001      0      0 0.0000000000 0.000000e+00      0      0
## CSI012      0      0 0.0000000000 1.724971e-05      0      0
## CSI022      0      0 0.0000000000 0.000000e+00      0      0
## CSI044      0      0 0.0000000000 0.000000e+00      0      0
## CSI055      0      0 0.0000000000 6.454250e-05      0      0
## CSI065      0      0 0.0004538406 3.782005e-05      0      0
## CSI076      0      0 0.0000000000 0.000000e+00      0      0
##      0tu01890      0tu01891      0tu01892      0tu01893      0tu01894
## CSI001      0 2.814391e-04 2.345326e-05 0.0000000000 0.000000e+00
## CSI012      0 0.000000e+00 0.000000e+00 0.0000000000 0.000000e+00
## CSI022      0 0.000000e+00 0.000000e+00 0.0000000000 0.000000e+00
## CSI044      0 0.000000e+00 0.000000e+00 0.0000000000 0.000000e+00
## CSI055      0 2.151417e-05 2.151417e-05 0.0000000000 0.000000e+00
## CSI065      0 0.000000e+00 0.000000e+00 0.0000000000 0.000000e+00
## CSI076      0 0.000000e+00 2.023472e-04 0.0000000000 0.000000e+00
##      0tu01895      0tu01896 0tu01897 0tu01898      0tu01899 0tu01900
## CSI001      0 0.0000000000      0      0 0.000000e+00      0
## CSI012      0 0.0004139930      0      0 1.724971e-05      0
## CSI022      0 0.0000000000      0      0 8.606222e-05      0
## CSI044      0 0.0000000000      0      0 0.000000e+00      0
## CSI055      0 0.0000000000      0      0 0.000000e+00      0
## CSI065      0 0.0000000000      0      0 0.000000e+00      0
## CSI076      0 0.0000000000      0      0 0.000000e+00      0
##      0tu01901 0tu01902 0tu01903      0tu01904      0tu01905
## CSI001 0.0000000000      0      0 0.000000e+00 0.000000e+00
## CSI012 0.0000000000      0      0 1.724971e-05 0.000000e+00
## CSI022 0.0000000000      0      0 0.000000e+00 0.000000e+00
## CSI044 0.0000000000      0      0 0.000000e+00 0.000000e+00
## CSI055 0.0000000000      0      0 0.000000e+00 1.290850e-04
## CSI065 0.0000000000      0      0 0.000000e+00 1.512802e-04
## CSI076 0.0000000000      0      0 2.890675e-05 0.000000e+00
##      0tu01906      0tu01907 0tu01908      0tu01909      0tu01910
## CSI001 2.345326e-05 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI012 8.624853e-05 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI022 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00      0 5.781349e-05 0.000000e+00
##      0tu01911      0tu01912 0tu01913 0tu01914      0tu01915 0tu01916
## CSI001      0 2.345326e-05      0      0 0.0003752521      0
## CSI012      0 2.414959e-04      0      0 0.0008969848      0

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##	CSI022	0	1.721244e-04	0	0	0.0000000000	0
##	CSI044	0	0.000000e+00	0	0	0.0000000000	0
##	CSI055	0	0.000000e+00	0	0	0.0000000000	0
##	CSI065	0	0.000000e+00	0	0	0.0000000000	0
##	CSI076	0	0.000000e+00	0	0	0.0001445337	0
##		0tu01917	0tu01918	0tu01919	0tu01920	0tu01921	
##	CSI001	0.000000e+00	0.000000e+00	0.0000000000	0.0000000000		0
##	CSI012	0.000000e+00	0.000000e+00	0.0000000000	0.0000000000		0
##	CSI022	0.000000e+00	0.000000e+00	0.0000000000	0.0000000000		0
##	CSI044	0.000000e+00	0.000000e+00	0.0000000000	0.0000000000		0
##	CSI055	0.000000e+00	0.000000e+00	0.000129085	0.0003657408		0
##	CSI065	0.000000e+00	0.000000e+00	0.0000000000	0.0000000000		0
##	CSI076	0.000000e+00	0.000000e+00	0.0000000000	0.0001156270		0
##		0tu01922	0tu01923	0tu01924	0tu01925	0tu01926	0tu01927
##	CSI001	0	0.0000000000	0	0	0.000000e+00	0
##	CSI012	0	0.0000000000	0	0	0.000000e+00	0
##	CSI022	0	0.0000000000	0	0	0.000000e+00	0
##	CSI044	0	0.0000000000	0	0	0.000000e+00	0
##	CSI055	0	0.000129085	0	0	6.45425e-05	0
##	CSI065	0	0.0000000000	0	0	0.000000e+00	0
##	CSI076	0	0.0000000000	0	0	0.000000e+00	0
##		0tu01928	0tu01929	0tu01930	0tu01931	0tu01932	0tu01933
##	CSI001	0	3.517989e-04	0	0.000000e+00	0	0
##	CSI012	0	2.587456e-04	0	0.000000e+00	0	0
##	CSI022	0	4.303111e-05	0	0.000000e+00	0	0
##	CSI044	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI055	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI065	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI076	0	0.000000e+00	0	0.000000e+00	0	0
##		0tu01934	0tu01935	0tu01936	0tu01937	0tu01938	0tu01939
##	CSI001	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI012	0	0	0.000000e+00	0	0	1.724971e-05
##	CSI022	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI044	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI055	0	0	0.000000e+00	0	0	2.151417e-05
##	CSI065	0	0	3.782005e-05	0	0	0.000000e+00
##	CSI076	0	0	0.000000e+00	0	0	8.672024e-05
##		0tu01940	0tu01941	0tu01942	0tu01943	0tu01944	
##	CSI001	2.345326e-05	0.000000e+00	7.035977e-05	0	3.517989e-04	
##	CSI012	2.587456e-04	0.000000e+00	1.552474e-04	0	1.207479e-04	
##	CSI022	8.606222e-05	0.000000e+00	2.581867e-04	0	2.797022e-04	
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI055	4.302833e-05	2.151417e-05	0.000000e+00	0	0.000000e+00	
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI076	2.312540e-04	0.000000e+00	0.000000e+00	0	1.734405e-04	
##		0tu01945	0tu01946	0tu01947	0tu01948	0tu01949	0tu01950
##	CSI001	0	0.0000000000	0	0	0	4.690652e-05
##	CSI012	0	0.0000000000	0	0	0	0.000000e+00
##	CSI022	0	0.0000000000	0	0	0	0.000000e+00
##	CSI044	0	0.0000000000	0	0	0	0.000000e+00
##	CSI055	0	0.0000000000	0	0	0	5.378542e-04
##	CSI065	0	0.0000000000	0	0	0	7.564010e-05
##	CSI076	0	0.002370353	0	0	0	6.937619e-04
##		0tu01951	0tu01952	0tu01953	0tu01954	0tu01955	0tu01956 0tu01957

##	CSI001	0	0	0	0	1.172663e-04	0	0		
##	CSI012	0	0	0	0	5.174912e-05	0	0		
##	CSI022	0	0	0	0	0.000000e+00	0	0		
##	CSI044	0	0	0	0	0.000000e+00	0	0		
##	CSI055	0	0	0	0	0.000000e+00	0	0		
##	CSI065	0	0	0	0	0.000000e+00	0	0		
##	CSI076	0	0	0	0	0.000000e+00	0	0		
##		0tu01958	0tu01959	0tu01960		0tu01961	0tu01962	0tu01963	0tu01964	
##	CSI001	0	0	0	7.035977e-05	0	0	0	0	
##	CSI012	0	0	0	1.724971e-05	0	0	0	0	
##	CSI022	0	0	0	0.000000e+00	0	0	0	0	
##	CSI044	0	0	0	0.000000e+00	0	0	0	0	
##	CSI055	0	0	0	0.000000e+00	0	0	0	0	
##	CSI065	0	0	0	0.000000e+00	0	0	0	0	
##	CSI076	0	0	0	0.000000e+00	0	0	0	0	
##		0tu01965	0tu01966		0tu01967	0tu01968		0tu01969	0tu01970	
##	CSI001	0	0	1.172663e-04	0	7.035977e-05	1.172663e-04			
##	CSI012	0	0	3.449941e-05	0	0.000000e+00	5.174912e-05			
##	CSI022	0	0	2.151556e-05	0	8.606222e-05	1.721244e-04			
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00			
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00			
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00			
##	CSI076	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00			
##			0tu01971	0tu01972	0tu01973	0tu01974		0tu01975	0tu01976	
##	CSI001	0.000000e+00		0	0	0	7.035977e-05	0.0000000000		
##	CSI012	1.724971e-05		0	0	0	2.414959e-04	0.0000000000		
##	CSI022	6.454667e-05		0	0	0	2.151556e-05	0.0000000000		
##	CSI044	0.000000e+00		0	0	0	0.000000e+00	0.0000000000		
##	CSI055	0.000000e+00		0	0	0	0.000000e+00	0.0004517975		
##	CSI065	3.782005e-05		0	0	0	0.000000e+00	0.0000000000		
##	CSI076	5.203214e-04		0	0	0	0.000000e+00	0.0000000000		
##			0tu01977	0tu01978		0tu01979	0tu01980	0tu01981	0tu01982	0tu01983
##	CSI001	0	0	0.000000000		0	0	0	0	0
##	CSI012	0	0	0.00175947		0	0	0	0	0
##	CSI022	0	0	0.000000000		0	0	0	0	0
##	CSI044	0	0	0.000000000		0	0	0	0	0
##	CSI055	0	0	0.000000000		0	0	0	0	0
##	CSI065	0	0	0.000000000		0	0	0	0	0
##	CSI076	0	0	0.000000000		0	0	0	0	0
##			0tu01984	0tu01985	0tu01986	0tu01987	0tu01988		0tu01989	
##	CSI001	0	0	0	0	0	0	1.407195e-04		
##	CSI012	0	0	0	0	0	0	5.174912e-05		
##	CSI022	0	0	0	0	0	0	0.000000e+00		
##	CSI044	0	0	0	0	0	0	0.000000e+00		
##	CSI055	0	0	0	0	0	0	8.605667e-05		
##	CSI065	0	0	0	0	0	0	0.000000e+00		
##	CSI076	0	0	0	0	0	0	2.890675e-05		
##			0tu01990	0tu01991	0tu01992		0tu01993	0tu01994		0tu01995
##	CSI001	1.172663e-04		0	0	2.345326e-05	0	0.000000e+00		
##	CSI012	1.724971e-05		0	0	0.000000e+00	0	0.000000e+00		
##	CSI022	2.151556e-05		0	0	4.303111e-05	0	0.000000e+00		
##	CSI044	0.000000e+00		0	0	0.000000e+00	0	0.000000e+00		
##	CSI055	0.000000e+00		0	0	0.000000e+00	0	2.151417e-05		
##	CSI065	0.000000e+00		0	0	0.000000e+00	0	1.058961e-03		

##	CSI076	0.000000e+00	0	0	0.000000e+00	0	2.601607e-04
##		0tu01996	0tu01997	0tu01998	0tu01999	0tu02000	0tu02001
##	CSI001	1.641728e-04	0	1.876261e-04	0	0.000000e+00	0
##	CSI012	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI022	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI055	0.000000e+00	0	0.000000e+00	0	2.151417e-05	0
##	CSI065	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI076	0.000000e+00	0	2.890675e-05	0	0.000000e+00	0
##		0tu02002	0tu02003	0tu02004	0tu02005	0tu02006	0tu02007
##	CSI001	0	0	0	0.0000000000	0	0
##	CSI012	0	0	0	0.0000000000	0	0
##	CSI022	0	0	0	0.0000000000	0	0
##	CSI044	0	0	0	0.0000000000	0	0
##	CSI055	0	0	0	0.0000000000	0	0
##	CSI065	0	0	0	0.0001512802	0	0
##	CSI076	0	0	0	0.0000000000	0	0
##		0tu02008	0tu02009	0tu02010	0tu02011	0tu02012	
##	CSI001	0.0000000000	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI012	0.0000000000	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI022	0.0003227333	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI044	0.0000000000	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI055	0.0000000000	0	0.000000e+00	0.000000e+00	2.151417e-05	
##	CSI065	0.0000000000	0	3.782005e-05	0.000000e+00	0.000000e+00	
##	CSI076	0.0000000000	0	0.000000e+00	0.000000e+00	0.000000e+00	
##		0tu02013	0tu02014	0tu02015	0tu02016	0tu02017	0tu02018
##	CSI001	0	0.0000000000	0	3.987054e-04	0.000000e+00	0
##	CSI012	0	0.0001552474	0	0.000000e+00	0.000000e+00	0
##	CSI022	0	0.0002581867	0	0.000000e+00	0.000000e+00	0
##	CSI044	0	0.0000000000	0	0.000000e+00	0.000000e+00	0
##	CSI055	0	0.0000000000	0	0.000000e+00	6.45425e-05	0
##	CSI065	0	0.0000000000	0	0.000000e+00	0.000000e+00	0
##	CSI076	0	0.0001445337	0	3.757877e-04	0.000000e+00	0
##		0tu02019	0tu02020	0tu02021	0tu02022	0tu02023	
##	CSI001	0.000000e+00	0	2.345326e-05	0.000000e+00	0	
##	CSI012	1.724971e-05	0	5.174912e-05	1.724971e-05	0	
##	CSI022	0.000000e+00	0	0.000000e+00	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0.000000e+00	0	
##	CSI055	2.796842e-04	0	0.000000e+00	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0.000000e+00	3.782005e-05	0	
##	CSI076	4.046945e-04	0	0.000000e+00	0.000000e+00	0	
##		0tu02024	0tu02025	0tu02026	0tu02027	0tu02028	
##	CSI001	0.000000e+00	0	0.000000e+00	0.0002110793	0.000000e+00	
##	CSI012	1.724971e-05	0	0.000000e+00	0.0001034982	0.000000e+00	
##	CSI022	2.151556e-05	0	0.000000e+00	0.0000000000	0.000000e+00	
##	CSI044	0.000000e+00	0	0.000000e+00	0.0000000000	3.943140e-05	
##	CSI055	2.366558e-03	0	4.302833e-05	0.0000000000	2.151417e-05	
##	CSI065	0.000000e+00	0	0.000000e+00	0.0000000000	0.000000e+00	
##	CSI076	0.000000e+00	0	5.781349e-05	0.0000000000	2.890675e-05	
##		0tu02029	0tu02030	0tu02031	0tu02032	0tu02033	
##	CSI001	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI022	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI044	1.971570e-05	0.000000e+00	0	1.971570e-05	0	



##	CSI055	1.290850e-04	8.605667e-05	0	0.000000e+00	0
##	CSI065	0.000000e+00	1.134602e-03	0	0.000000e+00	0
##	CSI076	2.890675e-05	8.672024e-05	0	2.890675e-05	0
##		0tu02034	0tu02035	0tu02036	0tu02037	0tu02038
##	CSI001	0.0000000000	0.000000e+00	2.345326e-05	0.0000000000	0
##	CSI012	0.0001552474	0.000000e+00	0.000000e+00	0.0000000000	0
##	CSI022	0.0000000000	0.000000e+00	2.366711e-04	0.0000000000	0
##	CSI044	0.0000000000	0.000000e+00	0.000000e+00	0.0000000000	0
##	CSI055	0.0000000000	0.000000e+00	0.000000e+00	0.0000000000	0
##	CSI065	0.0000000000	7.564010e-05	0.000000e+00	0.0009833214	0
##	CSI076	0.0000000000	0.000000e+00	0.000000e+00	0.0002312540	0
##		0tu02039	0tu02040	0tu02041	0tu02042	0tu02043
##	CSI001	0.0000000000	0	0	0 0.000000e+00	0
##	CSI012	0.0000000000	0	0	0 0.000000e+00	0
##	CSI022	0.0000000000	0	0	0 0.000000e+00	0
##	CSI044	0.0000000000	0	0	0 0.000000e+00	0
##	CSI055	0.0000000000	0	0	0 1.570534e-03	0
##	CSI065	0.0000000000	0	0	0 0.000000e+00	0
##	CSI076	0.0000000000	0	0	0 1.156270e-04	0
##		0tu02045	0tu02046	0tu02047	0tu02048	0tu02049
##	CSI001	0	0 0.0000000000	2.345326e-04	0.000000e+00	0
##	CSI012	0	0 0.0000000000	1.552474e-04	3.449941e-05	0
##	CSI022	0	0 0.0000000000	6.454667e-05	0.000000e+00	0
##	CSI044	0	0 0.0000000000	0.000000e+00	0.000000e+00	0
##	CSI055	0	0 0.0000000000	0.000000e+00	0.000000e+00	0
##	CSI065	0	0 0.0000000000	0.000000e+00	0.000000e+00	0
##	CSI076	0	0 0.0000000000	0.000000e+00	0.000000e+00	0
##		0tu02051	0tu02052	0tu02053	0tu02054	0tu02055
##	CSI001	0	0	0	0 2.345326e-05	2.345326e-05
##	CSI012	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI022	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI044	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI055	0	0	0	0 4.302833e-05	0.000000e+00
##	CSI065	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI076	0	0	0	0 5.781349e-05	0.000000e+00
##		0tu02057	0tu02058	0tu02059	0tu02060	0tu02061
##	CSI001	8.443173e-04	0 0.0001172663	0	0 0.0000000000	0
##	CSI012	1.724971e-05	0 0.0002069965	0	0 0.0000000000	0
##	CSI022	0.000000e+00	0 0.0000000000	0	0 0.0000000000	0
##	CSI044	0.000000e+00	0 0.0000000000	0	0 0.0000000000	0
##	CSI055	4.302833e-05	0 0.0000000000	0	0 0.0000000000	0
##	CSI065	0.000000e+00	0 0.0000000000	0	0 0.0000000000	0
##	CSI076	0.000000e+00	0 0.0000000000	0	0 0.0000000000	0
##		0tu02063	0tu02064	0tu02065	0tu02066	0tu02067
##	CSI001	0.000000e+00	0 0.000000e+00	7.035977e-05	9.381303e-05	0
##	CSI012	3.449941e-05	0 0.000000e+00	6.899883e-05	0.000000e+00	0
##	CSI022	0.000000e+00	0 0.000000e+00	0.000000e+00	0.000000e+00	0
##	CSI044	0.000000e+00	0 0.000000e+00	0.000000e+00	0.000000e+00	0
##	CSI055	0.000000e+00	0 0.000000e+00	0.000000e+00	0.000000e+00	0
##	CSI065	0.000000e+00	0 0.000000e+00	0.000000e+00	0.000000e+00	0
##	CSI076	5.781349e-05	0 1.156270e-04	0.000000e+00	0.000000e+00	0
##		0tu02068	0tu02069	0tu02070	0tu02071	0tu02072
##	CSI001	0 0.00000e+00	0.0000000000	0.000000e+00	0.0000000000	0
##	CSI012	0 0.00000e+00	0.0000000000	0.000000e+00	0.0000000000	0

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## CSI022      0 0.00000e+00 0.0000000000 0.000000e+00 0.0000000000
## CSI044      0 1.97157e-05 0.0000000000 0.000000e+00 0.0000000000
## CSI055      0 0.00000e+00 0.0000000000 2.151417e-05 0.0000000000
## CSI065      0 0.00000e+00 0.0000000000 0.000000e+00 0.0000000000
## CSI076      0 0.00000e+00 0.0000000000 8.672024e-05 0.0000000000
##      0tu02073      0tu02074      0tu02075 0tu02076      0tu02077 0tu02078
## CSI001      0 2.345326e-05 0.000000e+00      0 0.000000e+00      0
## CSI012      0 0.000000e+00 3.449941e-05      0 1.207479e-04      0
## CSI022      0 1.075778e-04 0.000000e+00      0 2.151556e-05      0
## CSI044      0 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI055      0 0.000000e+00 2.151417e-05      0 0.000000e+00      0
## CSI065      0 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI076      0 0.000000e+00 3.179742e-04      0 0.000000e+00      0
##      0tu02079 0tu02080 0tu02081      0tu02082 0tu02083 0tu02084 0tu02085
## CSI001      0      0      0 0.000000e+00      0      0      0
## CSI012      0      0      0 0.000000e+00      0      0      0
## CSI022      0      0      0 0.000000e+00      0      0      0
## CSI044      0      0      0 0.000000e+00      0      0      0
## CSI055      0      0      0 3.657408e-04      0      0      0
## CSI065      0      0      0 0.000000e+00      0      0      0
## CSI076      0      0      0 2.890675e-05      0      0      0
##      0tu02086      0tu02087      0tu02088 0tu02089 0tu02090
## CSI001 2.345326e-05 4.690652e-05 0.000000e+00      0      0
## CSI012 3.449941e-05 0.000000e+00 0.000000e+00      0      0
## CSI022 0.000000e+00 0.000000e+00 0.000000e+00      0      0
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00      0      0
## CSI055 0.000000e+00 0.000000e+00 2.151417e-05      0      0
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00      0      0
## CSI076 2.601607e-04 0.000000e+00 0.000000e+00      0      0
##      0tu02091      0tu02092      0tu02093 0tu02094      0tu02095
## CSI001 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI012 0.000000e+00 1.724971e-05 0.000000e+00      0 0.000000e+00
## CSI022 0.000000e+00 2.151556e-05 0.000000e+00      0 2.151556e-05
## CSI044 9.857850e-05 0.000000e+00 1.971570e-05      0 0.000000e+00
## CSI055 0.000000e+00 6.454250e-05 0.000000e+00      0 0.000000e+00
## CSI065 1.172422e-03 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI076 2.312540e-04 0.000000e+00 0.000000e+00      0 0.000000e+00
##      0tu02096 0tu02097      0tu02098      0tu02099      0tu02100
## CSI001      0      0 0.000000e+00 0.000000e+00 2.345326e-05
## CSI012      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI022      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI065      0      0 0.000000e+00 3.782005e-05 0.000000e+00
## CSI076      0      0 0.000000e+00 2.890675e-05 0.000000e+00
##      0tu02101      0tu02102 0tu02103 0tu02104 0tu02105      0tu02106
## CSI001 2.579858e-04 2.345326e-05      0      0      0 9.381303e-05
## CSI012 5.174912e-05 0.000000e+00      0      0      0 0.000000e+00
## CSI022 3.227333e-04 0.000000e+00      0      0      0 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
## CSI055 0.000000e+00 0.000000e+00      0      0      0 2.151417e-05
## CSI065 0.000000e+00 0.000000e+00      0      0      0 3.782005e-05
## CSI076 0.000000e+00 1.156270e-04      0      0      0 1.445337e-04
##      0tu02107 0tu02108      0tu02109 0tu02110      0tu02111 0tu02112

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##	CSI001	0	0 1.876261e-04	0 0.0000000000	0	
##	CSI012	0	0 3.449941e-05	0 0.0000000000	0	
##	CSI022	0	0 0.000000e+00	0 0.0000000000	0	
##	CSI044	0	0 0.000000e+00	0 0.0000000000	0	
##	CSI055	0	0 0.000000e+00	0 0.0000000000	0	
##	CSI065	0	0 0.000000e+00	0 0.0000000000	0	
##	CSI076	0	0 2.890675e-05	0 0.0000000000	0	
##	0tu02113	0tu02114	0tu02115	0tu02116	0tu02117	
##	CSI001	0 0.0003752521	0.000000e+00	0.000000e+00	7.035977e-05	
##	CSI012	0 0.0000000000	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI022	0 0.0000000000	0.000000e+00	2.151556e-05	0.000000e+00	
##	CSI044	0 0.0000000000	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI055	0 0.0000000000	2.151417e-05	0.000000e+00	0.000000e+00	
##	CSI065	0 0.0000000000	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI076	0 0.0000000000	0.000000e+00	0.000000e+00	5.781349e-05	
##	0tu02118	0tu02119	0tu02120	0tu02121	0tu02122	0tu02123
##	CSI001	0.000000e+00	0.000000e+00	0	0	0
##	CSI012	0.000000e+00	0.000000e+00	0	0	0
##	CSI022	0.000000e+00	2.151556e-05	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0
##	CSI055	2.151417e-05	0.000000e+00	0	0	0
##	CSI065	1.891003e-04	0.000000e+00	0	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	0	0
##	0tu02124	0tu02125	0tu02126	0tu02127	0tu02128	
##	CSI001	0 0.0002345326	0 0.000000e+00	0.000000e+00		
##	CSI012	0 0.0004484924	0 0.000000e+00	0.000000e+00		
##	CSI022	0 0.0000000000	0 0.000000e+00	0.000000e+00		
##	CSI044	0 0.0000000000	0 0.000000e+00	0.000000e+00		
##	CSI055	0 0.0000000000	0 8.605667e-05	0.000000e+00		
##	CSI065	0 0.0000000000	0 0.000000e+00	0.000000e+00		
##	CSI076	0 0.0000000000	0 7.226687e-04	2.890675e-05		
##	0tu02129	0tu02130	0tu02131	0tu02132	0tu02133	0tu02134
##	CSI001	0.000000e+00	0	0 0.000000e+00	0	0
##	CSI012	0.000000e+00	0	0 0.000000e+00	0	0
##	CSI022	0.000000e+00	0	0 0.000000e+00	0	0
##	CSI044	0.000000e+00	0	0 0.000000e+00	0	0
##	CSI055	0.000000e+00	0	0 1.721133e-04	0	0
##	CSI065	0.000000e+00	0	0 0.000000e+00	0	0
##	CSI076	8.672024e-05	0	0 0.000000e+00	0	0
##	0tu02135	0tu02136	0tu02137	0tu02138	0tu02139	0tu02140
##	CSI001	0	0 2.345326e-05	4.690652e-05	0 0.0000000000	
##	CSI012	0	0 0.000000e+00	1.724971e-05	0 0.0000000000	
##	CSI022	0	0 0.000000e+00	0.000000e+00	0 0.0000000000	
##	CSI044	0	0 0.000000e+00	0.000000e+00	0 0.0000000000	
##	CSI055	0	0 0.000000e+00	0.000000e+00	0 0.0000645425	
##	CSI065	0	0 0.000000e+00	0.000000e+00	0 0.0000000000	
##	CSI076	0	0 0.000000e+00	0.000000e+00	0 0.0000000000	
##	0tu02141	0tu02142	0tu02143	0tu02144	0tu02145	0tu02146
##	CSI001	0	0	0 0.000000e+00	0.000000e+00	0
##	CSI012	0	0	0 3.104947e-04	0.000000e+00	0
##	CSI022	0	0	0 2.366711e-04	0.000000e+00	0
##	CSI044	0	0	0 1.380099e-04	0.000000e+00	0
##	CSI055	0	0	0 2.151417e-05	0.000000e+00	0
##	CSI065	0	0	0 2.269203e-04	0.000000e+00	0

##	CSI076	0	0	0	0.000000e+00	0.000000e+00	0
##		0tu02147	0tu02148	0tu02149	0tu02150	0tu02151	0tu02152
##	CSI001	1.876261e-04	0.000000e+00	0	0.0001172663	0	0
##	CSI012	1.724971e-05	0.000000e+00	0	0.0000000000	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0.0000000000	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0.0000000000	0	0
##	CSI055	0.000000e+00	0.000000e+00	0	0.0000000000	0	0
##	CSI065	0.000000e+00	0.000000e+00	0	0.0000000000	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	0.0000000000	0	0
##		0tu02153	0tu02154	0tu02155	0tu02156	0tu02157	0tu02158
##	CSI001	9.381303e-05	0	7.035977e-05	0	0	0
##	CSI012	8.624853e-05	0	1.724971e-05	0	0	0
##	CSI022	0.000000e+00	0	2.151556e-05	0	0	0
##	CSI044	0.000000e+00	0	5.520396e-04	0	0	0
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI065	0.000000e+00	0	7.942211e-04	0	0	0
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0
##		0tu02159	0tu02160	0tu02161	0tu02162	0tu02163	0tu02164
##	CSI001	0	0.000000e+00	0.000000e+00	0	0	2.345326e-05
##	CSI012	0	0.000000e+00	0.000000e+00	0	0	1.034982e-04
##	CSI022	0	0.000000e+00	0.000000e+00	0	0	2.151556e-05
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI055	0	4.302833e-05	0.000000e+00	0	0	0.000000e+00
##	CSI065	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI076	0	4.336012e-04	0.000000e+00	0	0	0.000000e+00
##		0tu02165	0tu02166	0tu02167	0tu02168	0tu02169	0tu02170
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	8.107362e-04	0	0	0	0	0
##	CSI022	2.151556e-05	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		0tu02171	0tu02172	0tu02173	0tu02174	0tu02175	
##	CSI001	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI012	1.724971e-05	0.000000e+00	0	1.724971e-05	0.000000e+00	
##	CSI022	0.000000e+00	4.303111e-05	0	0.000000e+00	0.000000e+00	
##	CSI044	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI055	0.000000e+00	0.000000e+00	0	6.454250e-05	0.000000e+00	
##	CSI065	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI076	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##		0tu02176	0tu02177	0tu02178	0tu02179	0tu02180	
##	CSI001	0.0000000000	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI012	0.0000000000	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI022	0.0000000000	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI044	0.0000000000	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI055	0.0000000000	0	0.000000e+00	0.000000e+00	2.151417e-05	
##	CSI065	0.0001512802	0	3.782005e-05	0.000000e+00	0.000000e+00	
##	CSI076	0.0000000000	0	0.000000e+00	0.000000e+00	0.000000e+00	
##		0tu02181	0tu02182	0tu02183	0tu02184	0tu02185	0tu02186
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0

##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu02188	0tu02189	0tu02190	0tu02191	0tu02192		
##	CSI001	7.035977e-05	0.0000000000		0 0.000000e+00	0.000000e+00		
##	CSI012	0.000000e+00	0.0000000000		0 0.000000e+00	0.000000e+00		
##	CSI022	6.454667e-05	0.0000000000		0 4.303111e-05	0.000000e+00		
##	CSI044	0.000000e+00	0.0000000000		0 0.000000e+00	0.000000e+00		
##	CSI055	2.151417e-05	0.0001505992		0 0.000000e+00	6.454250e-04		
##	CSI065	7.564010e-05	0.0000000000		0 0.000000e+00	0.000000e+00		
##	CSI076	0.000000e+00	0.0000000000		0 0.000000e+00	8.672024e-04		
##		0tu02193	0tu02194	0tu02195	0tu02196	0tu02197		
##	CSI001	0.000000e+00		0 0.0000000000		0 2.345326e-05		
##	CSI012	0.000000e+00		0 0.0000000000		0 0.000000e+00		
##	CSI022	0.000000e+00		0 0.0000000000		0 0.000000e+00		
##	CSI044	0.000000e+00		0 0.0000000000		0 0.000000e+00		
##	CSI055	1.290850e-04		0 0.0000000000		0 0.000000e+00		
##	CSI065	0.000000e+00		0 0.0000000000		0 0.000000e+00		
##	CSI076	1.734405e-04		0 0.0003757877		0 0.000000e+00		
##		0tu02198	0tu02199	0tu02200	0tu02201	0tu02202	0tu02203	
##	CSI001	0.000000e+00		0	1.407195e-04	0.000000e+00		0
##	CSI012	0.000000e+00		0	8.624853e-05	0.000000e+00		0
##	CSI022	0.000000e+00		0	0.000000e+00	2.151556e-05		0
##	CSI044	0.000000e+00		0	0.000000e+00	0.000000e+00		0
##	CSI055	2.151417e-05		0	0.000000e+00	2.151417e-05		0
##	CSI065	0.000000e+00		0	0.000000e+00	1.512802e-04		0
##	CSI076	2.312540e-04		0	0.000000e+00	0.000000e+00		0
##		0tu02204	0tu02205	0tu02206	0tu02207	0tu02208	0tu02209	
##	CSI001		0 0.000000e+00		0	0.000000e+00	0.000000e+00	
##	CSI012		0 1.724971e-05		0	0.000000e+00	0.000000e+00	
##	CSI022		0 0.000000e+00		0	0.000000e+00	0.000000e+00	
##	CSI044		0 0.000000e+00		0	0.000000e+00	0.000000e+00	
##	CSI055		0 2.151417e-05		0	0.000000e+00	4.302833e-05	
##	CSI065		0 0.000000e+00		0	0.000000e+00	0.000000e+00	
##	CSI076		0 0.000000e+00		0	5.781349e-05	0.000000e+00	
##		0tu02210	0tu02211	0tu02212	0tu02213	0tu02214		
##	CSI001	0.0000000000	0.0000000000		0 0.000000e+00		0	
##	CSI012	0.0000000000	0.0000000000		0 1.724971e-05		0	
##	CSI022	0.0000000000	0.0000000000		0 4.303111e-05		0	
##	CSI044	0.0000000000	0.0000000000		0 0.000000e+00		0	
##	CSI055	0.0003227125	0.001355393		0 0.000000e+00		0	
##	CSI065	0.0000000000	0.0000000000		0 0.000000e+00		0	
##	CSI076	0.0000000000	0.0000000000		0 0.000000e+00		0	
##		0tu02215	0tu02216	0tu02217	0tu02218	0tu02219		
##	CSI001	0.000000e+00		0	0.0000000000	0.000000e+00		
##	CSI012	0.000000e+00		0	0.0005002415	1.724971e-05		
##	CSI022	0.000000e+00		0	0.0000000000	0.000000e+00		
##	CSI044	0.000000e+00		0	0.0000000000	0.000000e+00		
##	CSI055	1.290850e-04		0	0.0000000000	0.000000e+00		
##	CSI065	1.891003e-04		0	0.0000000000	0.000000e+00		
##	CSI076	1.156270e-04		0	0.0000000000	2.890675e-05		
##		0tu02220	0tu02221	0tu02222	0tu02223	0tu02224	0tu02225	
##	CSI001	7.035977e-05		0		0 0.000000e+00		0
##	CSI012	1.724971e-05		0		0 3.449941e-05		0

##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI055	0.000000e+00	0	0	0	8.605667e-05	0
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI076	0.000000e+00	0	0	0	0.000000e+00	0
##		0tu02226	0tu02227	0tu02228	0tu02229	0tu02230	
##	CSI001	0	4.690652e-05	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI012	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI022	0	2.366711e-04	2.151556e-05	0.000000e+00	0.000000e+00	
##	CSI044	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI055	0	0.000000e+00	0.000000e+00	4.302833e-05	0.000000e+00	
##	CSI065	0	0.000000e+00	0.000000e+00	1.134602e-04	0.000000e+00	
##	CSI076	0	0.000000e+00	0.000000e+00	2.890675e-05	8.672024e-05	
##		0tu02231	0tu02232	0tu02233	0tu02234	0tu02235	0tu02236
##	CSI001	0.000000e+00	7.035977e-05	0.000000e+00	0	0	0
##	CSI012	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI022	4.303111e-05	0.000000e+00	0.000000e+00	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI055	0.000000e+00	6.454250e-05	6.454250e-05	0	0	0
##	CSI065	0.000000e+00	0.000000e+00	2.647404e-04	0	0	0
##	CSI076	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##		0tu02237	0tu02238	0tu02239	0tu02240	0tu02241	0tu02242
##	CSI001	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0.000000e+00	0
##		0tu02243	0tu02244	0tu02245	0tu02246	0tu02247	0tu02248
##	CSI001	0.0000000000	0	0	0.0000000000	0	0.000000e+00
##	CSI012	0.0000000000	0	0	0.0000000000	0	1.724971e-05
##	CSI022	0.0000000000	0	0	0.0000000000	0	0.000000e+00
##	CSI044	0.0000000000	0	0	0.0000000000	0	0.000000e+00
##	CSI055	0.0000000000	0	0	0.0001721133	0	0.000000e+00
##	CSI065	0.0000000000	0	0	0.0000000000	0	0.000000e+00
##	CSI076	0.0000000000	0	0	0.0000000000	0	0.000000e+00
##		0tu02249	0tu02250	0tu02251	0tu02252	0tu02253	0tu02254
##	CSI001	4.690652e-05	0	0	0.000000e+00	0.000000e+00	0
##	CSI012	8.624853e-05	0	0	0.000000e+00	0.000000e+00	0
##	CSI022	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI044	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI055	0.000000e+00	0	0	2.151417e-05	0.000000e+00	0
##	CSI065	0.000000e+00	0	0	7.564010e-05	0.000000e+00	0
##	CSI076	0.000000e+00	0	0	5.781349e-05	0.000000e+00	0
##		0tu02255	0tu02256	0tu02257	0tu02258	0tu02259	
##	CSI001	2.345326e-05	0	0	4.690652e-05	7.035977e-05	
##	CSI012	3.794935e-04	0	0	0.000000e+00	8.624853e-05	
##	CSI022	1.075778e-04	0	0	0.000000e+00	6.454667e-05	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI055	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI065	0.000000e+00	0	0	0.000000e+00	3.782005e-05	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##		0tu02260	0tu02261	0tu02262	0tu02263	0tu02264	

##	CSI001	0.000000e+00	0.000000e+00	0	0.000000e+00	0
##	CSI012	1.724971e-04	0.000000e+00	0	0.000000e+00	0
##	CSI022	6.454667e-05	0.000000e+00	0	0.000000e+00	0
##	CSI044	0.000000e+00	0.000000e+00	0	0.000000e+00	0
##	CSI055	0.000000e+00	8.605667e-05	0	2.796842e-04	0
##	CSI065	0.000000e+00	0.000000e+00	0	3.782005e-05	0
##	CSI076	0.000000e+00	5.781349e-04	0	0.000000e+00	0
##		0tu02265	0tu02266	0tu02267	0tu02268	0tu02269
##	CSI001	2.345326e-05	0.0000000000	0.000000e+00	0.0000000000	0
##	CSI012	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000	0
##	CSI022	5.809200e-04	0.0000000000	0.000000e+00	0.0000000000	0
##	CSI044	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000	0
##	CSI055	0.000000e+00	0.0003442267	0.000000e+00	0.0000000000	0
##	CSI065	0.000000e+00	0.0000000000	0.000000e+00	0.0000000000	0
##	CSI076	5.781349e-05	0.0000000000	2.890675e-05	0.0000000000	0
##		0tu02270	0tu02271	0tu02272	0tu02273	0tu02274
##	CSI001	0	5.628782e-04	0.000000e+00	0	0
##	CSI012	0	6.899883e-05	0.000000e+00	0	0
##	CSI022	0	2.151556e-05	0.000000e+00	0	0
##	CSI044	0	0.000000e+00	0.000000e+00	0	0
##	CSI055	0	0.000000e+00	2.151417e-05	0	0
##	CSI065	0	0.000000e+00	0.000000e+00	0	0
##	CSI076	0	5.781349e-05	0.000000e+00	0	0
##		0tu02276	0tu02277	0tu02278	0tu02279	0tu02280
##	CSI001	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	6.45425e-05
##	CSI065	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0.000000e+00
##		0tu02282	0tu02283	0tu02284	0tu02285	0tu02286
##	CSI001	0.000000e+00	0.000000e+00	7.035977e-05	0	2.345326e-05
##	CSI012	0.000000e+00	1.724971e-05	0.000000e+00	0	0.000000e+00
##	CSI022	0.000000e+00	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI055	1.936275e-04	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI065	3.782005e-05	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI076	0.000000e+00	0.000000e+00	0.000000e+00	0	0.000000e+00
##		0tu02287	0tu02288	0tu02289	0tu02290	0tu02291
##	CSI001	0	0	0.000000e+00	0	0
##	CSI012	0	0	1.724971e-05	0	0
##	CSI022	0	0	4.303111e-05	0	0
##	CSI044	0	0	0.000000e+00	0	0
##	CSI055	0	0	2.151417e-04	0	0
##	CSI065	0	0	0.000000e+00	0	0
##	CSI076	0	0	0.000000e+00	0	0
##		0tu02293	0tu02294	0tu02295	0tu02296	0tu02297
##	CSI001	2.110793e-04	0	0	0.000000e+00	0
##	CSI012	5.174912e-05	0	0	0.000000e+00	0
##	CSI022	2.151556e-05	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0	0.000000e+00	0
##	CSI055	0.000000e+00	0	0	0.000000e+00	0
##	CSI065	0.000000e+00	0	0	0.000000e+00	0

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## CSI076 0.000000e+00      0      0 5.781349e-05      0      0
##      0tu02299 0tu02300      0tu02301      0tu02302      0tu02303 0tu02304
## CSI001      0      0 0.0000000000 2.345326e-05 0.0000000000      0
## CSI012      0      0 0.0000000000 1.552474e-04 0.0000000000      0
## CSI022      0      0 0.0000000000 1.075778e-04 0.0000000000      0
## CSI044      0      0 0.0000000000 0.000000e+00 0.0000000000      0
## CSI055      0      0 0.0000000000 0.000000e+00 0.0001936275      0
## CSI065      0      0 0.0000000000 0.000000e+00 0.0000000000      0
## CSI076      0      0 0.0005492282 0.000000e+00 0.0000000000      0
##      0tu02305      0tu02306 0tu02307      0tu02308 0tu02309
## CSI001 0.0000000000 4.690652e-05      0 7.035977e-05      0
## CSI012 0.0000000000 3.449941e-05      0 0.000000e+00      0
## CSI022 0.0000000000 0.000000e+00      0 6.454667e-05      0
## CSI044 0.0000000000 0.000000e+00      0 0.000000e+00      0
## CSI055 0.0009466234 0.000000e+00      0 1.505992e-04      0
## CSI065 0.0000756401 0.000000e+00      0 6.051208e-04      0
## CSI076 0.0000000000 0.000000e+00      0 5.781349e-05      0
##      0tu02310 0tu02311 0tu02312 0tu02313      0tu02314 0tu02315
## CSI001 0.000000e+00      0      0      0 0.000000e+00      0
## CSI012 1.724971e-05      0      0      0 3.449941e-05      0
## CSI022 0.000000e+00      0      0      0 0.000000e+00      0
## CSI044 0.000000e+00      0      0      0 0.000000e+00      0
## CSI055 2.151417e-05      0      0      0 0.000000e+00      0
## CSI065 0.000000e+00      0      0      0 0.000000e+00      0
## CSI076 3.179742e-04      0      0      0 0.000000e+00      0
##      0tu02316 0tu02317      0tu02318 0tu02319      0tu02320 0tu02321
## CSI001      0      0 0.0000000000      0 0.000000e+00      0
## CSI012      0      0 0.0000000000      0 6.899883e-05      0
## CSI022      0      0 0.0000000000      0 0.000000e+00      0
## CSI044      0      0 0.0000000000      0 0.000000e+00      0
## CSI055      0      0 0.0000000000      0 2.151417e-05      0
## CSI065      0      0 0.0000000000      0 0.000000e+00      0
## CSI076      0      0 0.0000000000      0 5.781349e-05      0
##      0tu02322      0tu02323 0tu02324      0tu02325 0tu02326      0tu02327
## CSI001      0 3.987054e-04      0 4.690652e-05      0 0.000000e+00
## CSI012      0 1.724971e-05      0 5.174912e-05      0 0.000000e+00
## CSI022      0 0.000000e+00      0 2.151556e-05      0 0.000000e+00
## CSI044      0 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI055      0 0.000000e+00      0 0.000000e+00      0 8.175383e-04
## CSI065      0 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI076      0 0.000000e+00      0 0.000000e+00      0 8.672024e-05
##      0tu02328      0tu02329      0tu02330      0tu02331 0tu02332
## CSI001 2.345326e-05 0.0001641728 0.000000e+00 2.345326e-05      0
## CSI012 3.449941e-05 0.0001034982 6.899883e-05 2.587456e-04      0
## CSI022 0.000000e+00 0.0000000000 0.000000e+00 0.000000e+00      0
## CSI044 0.000000e+00 0.0000000000 0.000000e+00 0.000000e+00      0
## CSI055 0.000000e+00 0.0000000000 0.000000e+00 2.151417e-05      0
## CSI065 0.000000e+00 0.0000000000 0.000000e+00 0.000000e+00      0
## CSI076 8.382957e-04 0.0000000000 0.000000e+00 0.000000e+00      0
##      0tu02333 0tu02334      0tu02335      0tu02336      0tu02337
## CSI001      0      0 0.000000e+00 4.690652e-05 2.345326e-05
## CSI012      0      0 0.000000e+00 1.724971e-05 3.449941e-05
## CSI022      0      0 0.000000e+00 0.000000e+00 4.303111e-05
## CSI044      0      0 0.000000e+00 0.000000e+00 9.266379e-04

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## CSI055      0      0 2.151417e-05 0.000000e+00 0.000000e+00
## CSI065      0      0 0.000000e+00 0.000000e+00 5.294807e-04
## CSI076      0      0 0.000000e+00 0.000000e+00 0.000000e+00
##      0tu02338      0tu02339      0tu02340 0tu02341      0tu02342
## CSI001 0.000000e+00 0.000000e+00 0.0000000000      0 0.000000e+00
## CSI012 0.000000e+00 0.000000e+00 0.0000000000      0 0.000000e+00
## CSI022 2.151556e-05 2.151556e-05 0.0000000000      0 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00 0.0000000000      0 0.000000e+00
## CSI055 1.462963e-03 0.000000e+00 0.0006023967      0 1.290850e-03
## CSI065 0.000000e+00 0.000000e+00 0.0000000000      0 0.000000e+00
## CSI076 3.468810e-04 0.000000e+00 0.0005203214      0 0.000000e+00
##      0tu02343      0tu02344 0tu02345      0tu02346      0tu02347
## CSI001      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI012      0 0.000000e+00      0 0.000000e+00 3.449941e-05
## CSI022      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI044      0 0.000000e+00      0 9.857850e-05 0.000000e+00
## CSI055      0 4.302833e-05      0 2.151417e-05 0.000000e+00
## CSI065      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI076      0 2.890675e-05      0 0.000000e+00 0.000000e+00
##      0tu02348      0tu02349      0tu02350      0tu02351      0tu02352
## CSI001 2.345326e-05 7.035977e-05 0.000000e+00 0.000000e+00 0.000000e+00
## CSI012 1.552474e-04 4.657421e-04 1.724971e-05 0.000000e+00 0.000000e+00
## CSI022 4.303111e-05 0.000000e+00 2.151556e-05 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00 0.000000e+00 0.000000e+00 6.454250e-05 8.605667e-05
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 3.782005e-05
## CSI076 0.000000e+00 0.000000e+00 5.781349e-05 9.250159e-04 0.000000e+00
##      0tu02353 0tu02354 0tu02355 0tu02356 0tu02357      0tu02358
## CSI001 0.000000e+00      0      0      0      0 4.690652e-05
## CSI012 0.000000e+00      0      0      0      0 2.932450e-04
## CSI022 0.000000e+00      0      0      0      0 2.151556e-05
## CSI044 0.000000e+00      0      0      0      0 0.000000e+00
## CSI055 0.000000e+00      0      0      0      0 0.000000e+00
## CSI065 0.000000e+00      0      0      0      0 0.000000e+00
## CSI076 0.000000e+00      0      0      0      0 0.000000e+00
##      0tu02359      0tu02360 0tu02361      0tu02362 0tu02363 0tu02364
## CSI001      0 1.172663e-04      0 1.641728e-04      0      0
## CSI012      0 0.000000e+00      0 1.207479e-04      0      0
## CSI022      0 2.151556e-05      0 2.151556e-05      0      0
## CSI044      0 0.000000e+00      0 0.000000e+00      0      0
## CSI055      0 2.151417e-05      0 0.000000e+00      0      0
## CSI065      0 0.000000e+00      0 0.000000e+00      0      0
## CSI076      0 8.382957e-04      0 0.000000e+00      0      0
##      0tu02365      0tu02366 0tu02367 0tu02368      0tu02369 0tu02370
## CSI001 0.000000e+00 0.000000e+00      0      0 2.345326e-05      0
## CSI012 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI022 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI044 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI055 0.000000e+00 0.000000e+00      0      0 2.151417e-05      0
## CSI065 0.000000e+00 0.000000e+00      0      0 1.134602e-04      0
## CSI076 0.000000e+00 0.000000e+00      0      0 2.890675e-05      0
##      0tu02371 0tu02372      0tu02373      0tu02374 0tu02375      0tu02376
## CSI001      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI012      0      0 0.000000e+00 1.724971e-05      0 0.000000e+00

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##	CSI022	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI044	0	0	0.000000e+00	0.000000e+00	0	1.971570e-05
##	CSI055	0	0	3.657408e-04	0.000000e+00	0	4.302833e-05
##	CSI065	0	0	0.000000e+00	3.782005e-05	0	0.000000e+00
##	CSI076	0	0	5.781349e-05	0.000000e+00	0	0.000000e+00
##		0tu02377	0tu02378	0tu02379	0tu02380	0tu02381	0tu02382 0tu02383
##	CSI001	0	0	0	0	0.000000e+00	0 0
##	CSI012	0	0	0	0	5.174912e-05	0 0
##	CSI022	0	0	0	0	0.000000e+00	0 0
##	CSI044	0	0	0	0	0.000000e+00	0 0
##	CSI055	0	0	0	0	4.302833e-05	0 0
##	CSI065	0	0	0	0	0.000000e+00	0 0
##	CSI076	0	0	0	0	0.000000e+00	0 0
##		0tu02384	0tu02385	0tu02386	0tu02387	0tu02388	
##	CSI001	7.035977e-05	0.0000000000	0	0.000000e+00	0	
##	CSI012	3.449941e-05	0.0000000000	0	1.724971e-05	0	
##	CSI022	4.303111e-04	0.0000000000	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0.0000000000	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0.0002796842	0	2.151417e-05	0	
##	CSI065	0.000000e+00	0.0000000000	0	0.000000e+00	0	
##	CSI076	8.672024e-05	0.0000000000	0	0.000000e+00	0	
##		0tu02389	0tu02390	0tu02391	0tu02392	0tu02393	0tu02394
##	CSI001	0.000000e+00	0	0	0	0.0000000000	7.035977e-05
##	CSI012	0.000000e+00	0	0	0	0.0000000000	0.000000e+00
##	CSI022	0.000000e+00	0	0	0	0.0000000000	0.000000e+00
##	CSI044	0.000000e+00	0	0	0	0.0000000000	0.000000e+00
##	CSI055	4.302833e-05	0	0	0	0.0000000000	0.000000e+00
##	CSI065	3.782005e-05	0	0	0	0.0000000000	0.000000e+00
##	CSI076	0.000000e+00	0	0	0	0.0000000000	0.000000e+00
##		0tu02395	0tu02396	0tu02397	0tu02398	0tu02399	
##	CSI001	2.345326e-05	0.0002110793	0.0000000000	4.690652e-05	0	
##	CSI012	1.034982e-04	0.0000000000	0.0000000000	5.174912e-05	0	
##	CSI022	8.606222e-05	0.0000000000	0.0000000000	0.000000e+00	0	
##	CSI044	0.000000e+00	0.0000000000	0.0000000000	0.000000e+00	0	
##	CSI055	4.302833e-05	0.0000000000	0.0000645425	0.000000e+00	0	
##	CSI065	0.000000e+00	0.0000000000	0.0000000000	0.000000e+00	0	
##	CSI076	0.000000e+00	0.0000000000	0.0006359484	0.000000e+00	0	
##		0tu02400	0tu02401	0tu02402	0tu02403	0tu02404	
##	CSI001	0	2.345326e-05	0.000000e+00	0	0.000000e+00	
##	CSI012	0	0.000000e+00	6.899883e-05	0	0.000000e+00	
##	CSI022	0	0.000000e+00	0.000000e+00	0	4.303111e-05	
##	CSI044	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0.000000e+00	6.454250e-05	0	0.000000e+00	
##	CSI065	0	7.564010e-05	0.000000e+00	0	0.000000e+00	
##	CSI076	0	0.000000e+00	2.890675e-05	0	0.000000e+00	
##		0tu02405	0tu02406	0tu02407	0tu02408	0tu02409	
##	CSI001	7.270510e-04	0	0.000000e+00	0.000000e+00	0	
##	CSI012	3.967433e-04	0	0.000000e+00	0.000000e+00	0	
##	CSI022	2.151556e-05	0	0.000000e+00	2.151556e-05	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0.000000e+00	0	
##	CSI055	0.000000e+00	0	6.454250e-05	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0.000000e+00	0	
##	CSI076	2.890675e-05	0	8.672024e-05	0.000000e+00	0	
##		0tu02410	0tu02411	0tu02412	0tu02413	0tu02414	

##	CSI001	4.690652e-05	0	2.345326e-05	0	0.000000e+00
##	CSI012	0.000000e+00	0	3.449941e-05	0	5.174912e-05
##	CSI022	0.000000e+00	0	0.000000e+00	0	4.303111e-05
##	CSI044	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI055	0.000000e+00	0	2.151417e-05	0	0.000000e+00
##	CSI065	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI076	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##		0tu02415	0tu02416	0tu02417	0tu02418	0tu02419
##	CSI001	1.172663e-04	2.345326e-05	0	0	0 0.000000e+00
##	CSI012	1.724971e-04	5.174912e-05	0	0	0 0.000000e+00
##	CSI022	8.606222e-05	8.606222e-05	0	0	0 0.000000e+00
##	CSI044	0.000000e+00	0.000000e+00	0	0	0 0.000000e+00
##	CSI055	0.000000e+00	2.151417e-05	0	0	0 4.302833e-05
##	CSI065	0.000000e+00	3.782005e-05	0	0	0 0.000000e+00
##	CSI076	0.000000e+00	0.000000e+00	0	0	0 5.781349e-05
##		0tu02421	0tu02422	0tu02423	0tu02424	0tu02425
##	CSI001	0	0.000000e+00	0.0000000000	0	0 0.0000000000
##	CSI012	0	0.000000e+00	0.0000000000	0	0 0.0000000000
##	CSI022	0	2.151556e-05	0.0000000000	0	0 0.0000000000
##	CSI044	0	0.000000e+00	0.0000000000	0	0 0.0000000000
##	CSI055	0	0.000000e+00	0.0000000000	0	0 0.0000000000
##	CSI065	0	0.000000e+00	0.0000000000	0	0 0.0000000000
##	CSI076	0	0.000000e+00	0.0000000000	0	0 0.0001445337
##		0tu02427	0tu02428	0tu02429	0tu02430	0tu02431
##	CSI001	0	0	1.641728e-04	0.000000e+00	0 0.000000e+00
##	CSI012	0	0	2.242462e-04	1.724971e-05	0 3.449941e-05
##	CSI022	0	0	0.000000e+00	0.000000e+00	0 0.000000e+00
##	CSI044	0	0	0.000000e+00	0.000000e+00	0 0.000000e+00
##	CSI055	0	0	2.151417e-05	1.355393e-03	0 2.151417e-04
##	CSI065	0	0	0.000000e+00	0.000000e+00	0 0.000000e+00
##	CSI076	0	0	0.000000e+00	0.000000e+00	0 2.890675e-05
##		0tu02433	0tu02434	0tu02435	0tu02436	0tu02437
##	CSI001	0	0	0	0	1.219569e-03
##	CSI012	0	0	0	0	6.899883e-05
##	CSI022	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0.000000e+00
##		0tu02439	0tu02440	0tu02441	0tu02442	0tu02443
##	CSI001	7.035977e-05	0.000000e+00	0.0000000000	0	0.000000e+00
##	CSI012	1.724971e-05	0.000000e+00	0.0000000000	0	0.000000e+00
##	CSI022	0.000000e+00	0.000000e+00	0.0000000000	0	0.000000e+00
##	CSI044	0.000000e+00	0.000000e+00	0.0000197157	0	0.000000e+00
##	CSI055	0.000000e+00	2.151417e-05	0.0000000000	0	0.000000e+00
##	CSI065	0.000000e+00	0.000000e+00	0.0025339435	0	0.000000e+00
##	CSI076	0.000000e+00	0.000000e+00	0.0000000000	0	0.000000e+00
##		0tu02444	0tu02445	0tu02446	0tu02447	0tu02448
##	CSI001	0.000000e+00	0	0	0	0.000000e+00
##	CSI012	0.000000e+00	0	0	0	0.000000e+00
##	CSI022	0.000000e+00	0	0	0	0.000000e+00
##	CSI044	0.000000e+00	0	0	0	0.000000e+00
##	CSI055	1.721133e-04	0	0	0	0.000000e+00
##	CSI065	0.000000e+00	0	0	0	0.000000e+00

##	CSI076	2.890675e-05	0	0	0	0.000000e+00	0
##		0tu02450	0tu02451	0tu02452	0tu02453	0tu02454	0tu02455
##	CSI001	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	6.454250e-04
##	CSI065	0	0	0	0	0	3.782005e-05
##	CSI076	0	0	0	0	0	5.781349e-05
##		0tu02456	0tu02457	0tu02458	0tu02459	0tu02460	0tu02461
##	CSI001	0.000000e+00	0	2.345326e-05	0	2.814391e-04	0
##	CSI012	1.724971e-05	0	1.724971e-05	0	1.724971e-05	0
##	CSI022	0.000000e+00	0	2.151556e-05	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI055	3.227125e-04	0	0.000000e+00	0	0.000000e+00	0
##	CSI065	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI076	5.781349e-05	0	0.000000e+00	0	2.890675e-05	0
##		0tu02462	0tu02463	0tu02464	0tu02465	0tu02466	0tu02467
##	CSI001	0	0	0	9.381303e-05	0.000000e+00	0.000000e+00
##	CSI012	0	0	0	6.899883e-05	1.724971e-05	1.724971e-05
##	CSI022	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI055	0	0	0	0.000000e+00	6.454250e-05	2.151417e-04
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI076	0	0	0	0.000000e+00	8.672024e-05	3.468810e-04
##		0tu02468	0tu02469	0tu02470	0tu02471	0tu02472	0tu02473
##	CSI001	0.000000e+00	0	0.0000000000	0.0000000000	0	0
##	CSI012	0.000000e+00	0	0.0000000000	0.0000000000	0	0
##	CSI022	0.000000e+00	0	0.0000000000	0.0000000000	0	0
##	CSI044	0.000000e+00	0	0.0000000000	0.0000000000	0	0
##	CSI055	0.000000e+00	0	0.0000000000	0.0000000000	0	0
##	CSI065	0.000000e+00	0	0.0000000000	0.0001134602	0	0
##	CSI076	0.000000e+00	0	0.0000000000	0.0000000000	0	0
##		0tu02474	0tu02475	0tu02476	0tu02477	0tu02478	0tu02479
##	CSI001	0.0000000000	0	0	0	0	0.000000e+00
##	CSI012	0.0000000000	0	0	0	0	0.000000e+00
##	CSI022	0.0000000000	0	0	0	0	0.000000e+00
##	CSI044	0.0000000000	0	0	0	0	0.000000e+00
##	CSI055	0.0000000000	0	0	0	0	0.000000e+00
##	CSI065	0.0000000000	0	0	0	0	0.000000e+00
##	CSI076	0.0000000000	0	0	0	0	0.000000e+00
##		0tu02480	0tu02481	0tu02482	0tu02483	0tu02484	0tu02485
##	CSI001	0	0	0	0	2.345326e-05	0
##	CSI012	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	1.506089e-04	0
##	CSI044	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	3.782005e-05	0
##	CSI076	0	0	0	0	0.000000e+00	0
##		0tu02486	0tu02487	0tu02488	0tu02489	0tu02490	
##	CSI001	0.000000e+00	0	0	0.0000000000	0.000000e+00	
##	CSI012	0.000000e+00	0	0	0.0000000000	5.174912e-05	
##	CSI022	0.000000e+00	0	0	0.0000000000	0.000000e+00	
##	CSI044	0.000000e+00	0	0	0.0000000000	0.000000e+00	

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## CSI055 0.000000e+00      0      0 0.0000000000 0.000000e+00
## CSI065 0.000000e+00      0      0 0.0000756401 0.000000e+00
## CSI076 0.000000e+00      0      0 0.0000000000 5.781349e-05
##      0tu02491 0tu02492 0tu02493      0tu02494 0tu02495 0tu02496
## CSI001 0.000000e+00      0      0 0.0000000000      0      0
## CSI012 0.000000e+00      0      0 0.0000000000      0      0
## CSI022 0.000000e+00      0      0 0.0000000000      0      0
## CSI044 0.000000e+00      0      0 0.0000000000      0      0
## CSI055 0.000000e+00      0      0 0.0000000000      0      0
## CSI065 0.000000e+00      0      0 0.0000000000      0      0
## CSI076 0.000000e+00      0      0 0.0000000000      0      0
##      0tu02497 0tu02498 0tu02499 0tu02500      0tu02501      0tu02502
## CSI001 0.000000e+00      0      0      0 0.000000e+00 1.172663e-04
## CSI012 1.724971e-05      0      0      0 0.000000e+00 6.899883e-05
## CSI022 0.000000e+00      0      0      0 0.000000e+00 4.303111e-05
## CSI044 0.000000e+00      0      0      0 0.000000e+00 1.971570e-05
## CSI055 0.000000e+00      0      0      0 2.151417e-05 0.000000e+00
## CSI065 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00      0      0      0 2.890675e-05 0.000000e+00
##      0tu02503 0tu02504      0tu02505      0tu02506      0tu02507
## CSI001 0.000000e+00      0 0.000000e+00 0.0000000000 0.000000e+00
## CSI012 0.000000e+00      0 1.724971e-05 0.0000000000 0.000000e+00
## CSI022 0.000000e+00      0 0.000000e+00 0.0000000000 0.000000e+00
## CSI044 0.000000e+00      0 0.000000e+00 0.0000000000 0.000000e+00
## CSI055 6.45425e-05      0 0.000000e+00 0.0001505992 0.000000e+00
## CSI065 0.000000e+00      0 0.000000e+00 0.0000000000 0.000000e+00
## CSI076 0.000000e+00      0 0.000000e+00 0.0000000000 8.672024e-05
##      0tu02508 0tu02509 0tu02510      0tu02511 0tu02512 0tu02513 0tu02514
## CSI001      0      0      0 1.407195e-04      0      0      0
## CSI012      0      0      0 1.724971e-05      0      0      0
## CSI022      0      0      0 7.960756e-04      0      0      0
## CSI044      0      0      0 0.000000e+00      0      0      0
## CSI055      0      0      0 0.000000e+00      0      0      0
## CSI065      0      0      0 0.000000e+00      0      0      0
## CSI076      0      0      0 0.000000e+00      0      0      0
##      0tu02515 0tu02516 0tu02517      0tu02518      0tu02519 0tu02520
## CSI001      0      0      0 0.0000000000 0.000000e+00      0
## CSI012      0      0      0 0.0001379977 1.724971e-05      0
## CSI022      0      0      0 0.0000000000 0.000000e+00      0
## CSI044      0      0      0 0.0000000000 0.000000e+00      0
## CSI055      0      0      0 0.0000000000 2.151417e-05      0
## CSI065      0      0      0 0.0000000000 0.000000e+00      0
## CSI076      0      0      0 0.0000000000 0.000000e+00      0
##      0tu02521 0tu02522 0tu02523      0tu02524      0tu02525 0tu02526
## CSI001 0.000000e+00      0      0 0.000000e+00 1.407195e-04      0
## CSI012 1.621472e-03      0      0 0.000000e+00 2.069965e-04      0
## CSI022 0.000000e+00      0      0 0.000000e+00 4.303111e-05      0
## CSI044 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI055 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI065 3.782005e-05      0      0 0.000000e+00 0.000000e+00      0
## CSI076 0.000000e+00      0      0 1.647685e-03 0.000000e+00      0
##      0tu02527      0tu02528 0tu02529 0tu02530      0tu02531 0tu02532
## CSI001      0 1.008490e-03      0      0 0.0000000000      0
## CSI012      0 3.104947e-04      0      0 0.0000000000      0

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##	CSI022	0	0.000000e+00	0	0	0.000000000	0
##	CSI044	0	0.000000e+00	0	0	0.000000000	0
##	CSI055	0	0.000000e+00	0	0	0.000129085	0
##	CSI065	0	0.000000e+00	0	0	0.000000000	0
##	CSI076	0	0.000000e+00	0	0	0.000000000	0
##		0tu02533	0tu02534	0tu02535	0tu02536	0tu02537	
##	CSI001	0.000000e+00	0	0	2.345326e-05	0.000000e+00	
##	CSI012	0.000000e+00	0	0	2.414959e-04	1.724971e-05	
##	CSI022	0.000000e+00	0	0	1.075778e-03	0.000000e+00	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI055	1.290850e-04	0	0	0.000000e+00	2.151417e-05	
##	CSI065	0.000000e+00	0	0	0.000000e+00	1.891003e-04	
##	CSI076	1.734405e-04	0	0	0.000000e+00	0.000000e+00	
##		0tu02538	0tu02539	0tu02540	0tu02541	0tu02542	
##	CSI001	0.000000e+00	0.000000e+00	0	0.0000000000	0	
##	CSI012	0.000000e+00	0.000000e+00	0	0.0000000000	0	
##	CSI022	2.151556e-05	0.000000e+00	0	0.0000000000	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0.0000000000	0	
##	CSI055	0.000000e+00	2.151417e-05	0	0.0008605667	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0.0000000000	0	
##	CSI076	0.000000e+00	0.000000e+00	0	0.0000000000	0	
##		0tu02543	0tu02544	0tu02545	0tu02546	0tu02547	
##	CSI001	0.000000e+00	2.345326e-05	0.000000e+00	0	0	
##	CSI012	0.000000e+00	1.724971e-05	0.000000e+00	0	0	
##	CSI022	4.303111e-05	0.000000e+00	6.454667e-05	0	0	
##	CSI044	1.182942e-04	0.000000e+00	0.000000e+00	0	0	
##	CSI055	0.000000e+00	1.721133e-04	4.302833e-05	0	0	
##	CSI065	3.782005e-05	0.000000e+00	0.000000e+00	0	0	
##	CSI076	0.000000e+00	1.445337e-04	0.000000e+00	0	0	
##		0tu02548	0tu02549	0tu02550	0tu02551	0tu02552	0tu02553
##	CSI001	0.000000e+00	0	0	0.0002110793	0	2.345326e-05
##	CSI012	1.724971e-05	0	0	0.0002414959	0	3.104947e-04
##	CSI022	0.000000e+00	0	0	0.0000000000	0	6.454667e-05
##	CSI044	0.000000e+00	0	0	0.0000000000	0	0.000000e+00
##	CSI055	4.302833e-05	0	0	0.0000000000	0	0.000000e+00
##	CSI065	0.000000e+00	0	0	0.0000000000	0	0.000000e+00
##	CSI076	0.000000e+00	0	0	0.0000000000	0	0.000000e+00
##		0tu02554	0tu02555	0tu02556	0tu02557	0tu02558	0tu02559
##	CSI001	2.345326e-05	0	0	0	0	7.035977e-05
##	CSI012	5.174912e-05	0	0	0	0	1.552474e-04
##	CSI022	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI044	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI055	2.151417e-04	0	0	0	0	0.000000e+00
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI076	1.156270e-04	0	0	0	0	0.000000e+00
##		0tu02560	0tu02561	0tu02562	0tu02563	0tu02564	0tu02565
##	CSI001	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI012	0.000000e+00	3.449941e-05	0.000000e+00	0	0	0
##	CSI022	0.000000e+00	2.151556e-05	0.000000e+00	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI055	8.605667e-05	0.000000e+00	0.000000e+00	0	0	0
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI076	5.781349e-05	0.000000e+00	2.890675e-05	0	0	0
##		0tu02566	0tu02567	0tu02568	0tu02569	0tu02570	0tu02571

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## CSI001 0.000000e+00      0      0 0.000000e+00 9.381303e-05      0
## CSI012 1.724971e-05      0      0 0.000000e+00 1.897468e-04      0
## CSI022 0.000000e+00      0      0 0.000000e+00 6.454667e-05      0
## CSI044 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI055 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI065 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI076 0.000000e+00      0      0 2.890675e-05 0.000000e+00      0
##      0tu02572 0tu02573      0tu02574 0tu02575 0tu02576      0tu02577
## CSI001 7.035977e-05      0 9.381303e-05      0      0 4.690652e-05
## CSI012 0.000000e+00      0 1.207479e-04      0      0 0.000000e+00
## CSI022 0.000000e+00      0 6.454667e-05      0      0 6.454667e-05
## CSI044 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI055 2.151417e-05      0 0.000000e+00      0      0 0.000000e+00
## CSI065 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI076 8.672024e-05      0 0.000000e+00      0      0 0.000000e+00
##      0tu02578 0tu02579 0tu02580 0tu02581      0tu02582 0tu02583
## CSI001 4.690652e-05      0      0      0 0.0000000000      0
## CSI012 0.000000e+00      0      0      0 0.0000000000      0
## CSI022 4.303111e-05      0      0      0 0.0000000000      0
## CSI044 0.000000e+00      0      0      0 0.0000000000      0
## CSI055 0.000000e+00      0      0      0 0.0001721133      0
## CSI065 0.000000e+00      0      0      0 0.0000000000      0
## CSI076 0.000000e+00      0      0      0 0.0000000000      0
##      0tu02584      0tu02585 0tu02586 0tu02587      0tu02588 0tu02589
## CSI001 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI012 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI022 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI044 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI055 0.000000e+00 0.000000e+00      0      0 2.151417e-05      0
## CSI065 3.782005e-05 0.000000e+00      0      0 0.000000e+00      0
## CSI076 0.000000e+00 5.781349e-05      0      0 0.000000e+00      0
##      0tu02590      0tu02591 0tu02592      0tu02593 0tu02594      0tu02595
## CSI001      0 0.0001407195      0 2.345326e-05      0 0.000000e+00
## CSI012      0 0.0000000000      0 0.000000e+00      0 0.000000e+00
## CSI022      0 0.0000000000      0 0.000000e+00      0 4.087956e-04
## CSI044      0 0.0000000000      0 0.000000e+00      0 0.000000e+00
## CSI055      0 0.0000000000      0 0.000000e+00      0 0.000000e+00
## CSI065      0 0.0000000000      0 0.000000e+00      0 0.000000e+00
## CSI076      0 0.0000000000      0 0.000000e+00      0 0.000000e+00
##      0tu02596      0tu02597 0tu02598 0tu02599 0tu02600      0tu02601
## CSI001 0.0000000000 0.0000000000      0      0      0 0.000000e+00
## CSI012 0.0000000000 0.0007589871      0      0      0 1.724971e-05
## CSI022 0.0000000000 0.0000000000      0      0      0 0.000000e+00
## CSI044 0.0000000000 0.0000000000      0      0      0 0.000000e+00
## CSI055 0.0003011983 0.0000000000      0      0      0 0.000000e+00
## CSI065 0.0000000000 0.0000000000      0      0      0 0.000000e+00
## CSI076 0.0000000000 0.0000000000      0      0      0 0.000000e+00
##      0tu02602 0tu02603      0tu02604 0tu02605 0tu02606 0tu02607
## CSI001 2.345326e-05      0 0.0000000000      0      0      0
## CSI012 0.000000e+00      0 0.0000000000      0      0      0
## CSI022 0.000000e+00      0 0.0000000000      0      0      0
## CSI044 0.000000e+00      0 0.0000000000      0      0      0
## CSI055 0.000000e+00      0 0.0000000000      0      0      0
## CSI065 1.512802e-04      0 0.0002647404      0      0      0

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##	CSI076	2.023472e-04	0	0.0000000000	0	0	0
##		0tu02608	0tu02609	0tu02610	0tu02611	0tu02612	0tu02613
##	CSI001	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI012	0.000000e+00	0	3.449941e-05	0.000000e+00	0	0
##	CSI022	0.000000e+00	0	2.151556e-05	0.000000e+00	0	0
##	CSI044	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI055	3.011983e-04	0	0.000000e+00	0.000000e+00	0	0
##	CSI065	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI076	8.672024e-05	0	1.214083e-03	0.000000e+00	0	0
##		0tu02614	0tu02615	0tu02616	0tu02617	0tu02618	0tu02619
##	CSI001	0	1.407195e-04	0.0001172663	0	4.690652e-05	0
##	CSI012	0	1.552474e-04	0.0000000000	0	1.724971e-05	0
##	CSI022	0	8.606222e-05	0.0000000000	0	0.000000e+00	0
##	CSI044	0	0.000000e+00	0.0000000000	0	0.000000e+00	0
##	CSI055	0	0.000000e+00	0.0000000000	0	0.000000e+00	0
##	CSI065	0	0.000000e+00	0.0000000000	0	0.000000e+00	0
##	CSI076	0	0.000000e+00	0.0000000000	0	2.890675e-05	0
##		0tu02620	0tu02621	0tu02622	0tu02623	0tu02624	0tu02625
##	CSI001	0	0	0	0.000000e+00	4.690652e-05	0
##	CSI012	0	0	0	0.000000e+00	3.449941e-05	0
##	CSI022	0	0	0	0.000000e+00	3.872800e-04	0
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI055	0	0	0	2.151417e-04	0.000000e+00	0
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI076	0	0	0	7.226687e-04	0.000000e+00	0
##		0tu02626	0tu02627	0tu02628	0tu02629	0tu02630	0tu02631
##	CSI001	0	0.000000e+00	0	0	7.035977e-05	0.000000e+00
##	CSI012	0	0.000000e+00	0	0	1.034982e-04	8.624853e-05
##	CSI022	0	0.000000e+00	0	0	6.454667e-05	0.000000e+00
##	CSI044	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00
##	CSI055	0	2.151417e-05	0	0	2.151417e-05	0.000000e+00
##	CSI065	0	0.000000e+00	0	0	3.782005e-05	0.000000e+00
##	CSI076	0	5.781349e-05	0	0	3.179742e-04	0.000000e+00
##		0tu02632	0tu02633	0tu02634	0tu02635	0tu02636	0tu02637
##	CSI001	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	1.724971e-05	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0
##		0tu02639	0tu02640	0tu02641	0tu02642	0tu02643	0tu02644
##	CSI001	0.000000e+00	0	0	0	0	2.345326e-05
##	CSI012	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI022	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI044	2.957355e-04	0	0	0	0	0.000000e+00
##	CSI055	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI076	2.601607e-04	0	0	0	0	0.000000e+00
##		0tu02645	0tu02646	0tu02647	0tu02648	0tu02649	0tu02650
##	CSI001	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI012	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI022	0.000000e+00	4.303111e-05	0	3.012178e-04	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0



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## CSI055 0.000000e+00 0.000000e+00      0 2.151417e-05      0      0
## CSI065 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI076 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
##      0tu02651      0tu02652 0tu02653 0tu02654 0tu02655 0tu02656
## CSI001 4.690652e-05 3.987054e-04      0      0      0      0
## CSI012 1.552474e-04 0.000000e+00      0      0      0      0
## CSI022 0.000000e+00 0.000000e+00      0      0      0      0
## CSI044 0.000000e+00 0.000000e+00      0      0      0      0
## CSI055 0.000000e+00 0.000000e+00      0      0      0      0
## CSI065 0.000000e+00 0.000000e+00      0      0      0      0
## CSI076 0.000000e+00 0.000000e+00      0      0      0      0
##      0tu02657 0tu02658 0tu02659 0tu02660 0tu02661      0tu02662
## CSI001      0      0      0      0      0 0.000000e+00
## CSI012      0      0      0      0      0 0.000000e+00
## CSI022      0      0      0      0      0 8.606222e-05
## CSI044      0      0      0      0      0 0.000000e+00
## CSI055      0      0      0      0      0 0.000000e+00
## CSI065      0      0      0      0      0 1.134602e-04
## CSI076      0      0      0      0      0 0.000000e+00
##      0tu02663 0tu02664      0tu02665      0tu02666      0tu02667
## CSI001 0.000000e+00      0 0.000000e+00 0.000000e+00 0.0000000000
## CSI012 0.000000e+00      0 0.000000e+00 0.000000e+00 0.0000000000
## CSI022 0.000000e+00      0 0.000000e+00 0.000000e+00 0.0000000000
## CSI044 0.000000e+00      0 0.000000e+00 0.000000e+00 0.0000000000
## CSI055 0.000000e+00      0 1.290850e-04 0.000000e+00 0.0001075708
## CSI065 0.000000e+00      0 0.000000e+00 0.000000e+00 0.0000000000
## CSI076 2.890675e-05      0 5.781349e-05 0.000000e+00 0.0000000000
##      0tu02668 0tu02669      0tu02670 0tu02671 0tu02672 0tu02673
## CSI001      0      0 0.000000e+00      0      0      0
## CSI012      0      0 0.000000e+00      0      0      0
## CSI022      0      0 0.000000e+00      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0
## CSI055      0      0 2.151417e-05      0      0      0
## CSI065      0      0 3.403805e-04      0      0      0
## CSI076      0      0 0.000000e+00      0      0      0
##      0tu02674 0tu02675      0tu02676      0tu02677      0tu02678
## CSI001 9.381303e-05      0 2.345326e-05 0.000000e+00 2.345326e-05
## CSI012 1.724971e-05      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI022 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00      0 0.000000e+00 1.505992e-04 0.000000e+00
## CSI065 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00      0 0.000000e+00 8.672024e-05 0.000000e+00
##      0tu02679 0tu02680 0tu02681      0tu02682      0tu02683
## CSI001 4.690652e-05      0      0 2.345326e-05 0.001993527
## CSI012 3.449941e-05      0      0 0.000000e+00 0.0000000000
## CSI022 0.000000e+00      0      0 0.000000e+00 0.0000000000
## CSI044 0.000000e+00      0      0 0.000000e+00 0.0000000000
## CSI055 8.605667e-05      0      0 2.796842e-04 0.0000000000
## CSI065 0.000000e+00      0      0 0.000000e+00 0.0000000000
## CSI076 3.179742e-04      0      0 0.000000e+00 0.0000000000
##      0tu02684 0tu02685 0tu02686      0tu02687 0tu02688 0tu02689
## CSI001 0.000000e+00      0      0 0.000000e+00      0      0
## CSI012 0.000000e+00      0      0 0.000000e+00      0      0

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##	CSI022	0.000000e+00	0	0	4.303111e-05	0	0
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI055	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0
##		0tu02690	0tu02691	0tu02692	0tu02693	0tu02694	0tu02695
##	CSI001	0	0	0.000000e+00	9.381303e-05	0.000000e+00	0
##	CSI012	0	0	0.000000e+00	1.034982e-04	0.000000e+00	0
##	CSI022	0	0	0.000000e+00	0.000000e+00	0.000000e+00	0
##	CSI044	0	0	0.000000e+00	0.000000e+00	0.000000e+00	0
##	CSI055	0	0	0.000000e+00	0.000000e+00	1.721133e-04	0
##	CSI065	0	0	0.000000e+00	0.000000e+00	0.000000e+00	0
##	CSI076	0	0	0.000000e+00	0.000000e+00	2.890675e-05	0
##		0tu02696	0tu02697	0tu02698	0tu02699	0tu02700	0tu02701
##	CSI001	0	4.690652e-05	0	0.000000e+00	0.0000000000	0
##	CSI012	0	1.724971e-05	0	1.724971e-05	0.0000000000	0
##	CSI022	0	2.151556e-05	0	0.000000e+00	0.0002151556	0
##	CSI044	0	0.000000e+00	0	5.914710e-05	0.0000000000	0
##	CSI055	0	0.000000e+00	0	1.290850e-04	0.0000000000	0
##	CSI065	0	0.000000e+00	0	0.000000e+00	0.0000000000	0
##	CSI076	0	0.000000e+00	0	0.000000e+00	0.0000000000	0
##		0tu02702	0tu02703	0tu02704	0tu02705	0tu02706	0tu02707
##	CSI001	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI012	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI022	0	0	2.151556e-05	0	0	0.000000e+00
##	CSI044	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI055	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI065	0	0	0.000000e+00	0	0	3.782005e-05
##	CSI076	0	0	0.000000e+00	0	0	0.000000e+00
##		0tu02708	0tu02709	0tu02710	0tu02711	0tu02712	
##	CSI001	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI012	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI022	8.606222e-05	0.000000e+00	0	6.454667e-05	2.151556e-05	
##	CSI044	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI055	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI065	0.000000e+00	1.512802e-04	0	0.000000e+00	0.000000e+00	
##	CSI076	0.000000e+00	8.672024e-05	0	0.000000e+00	0.000000e+00	
##		0tu02713	0tu02714	0tu02715	0tu02716	0tu02717	0tu02718
##	CSI001	7.035977e-05	0.0010553966	0	0	0	0.0000000000
##	CSI012	1.724971e-05	0.0001552474	0	0	0	0.0000000000
##	CSI022	0.000000e+00	0.0000000000	0	0	0	0.0000000000
##	CSI044	0.000000e+00	0.0000000000	0	0	0	0.0000000000
##	CSI055	0.000000e+00	0.0000000000	0	0	0	0.0002366558
##	CSI065	0.000000e+00	0.0000000000	0	0	0	0.0000000000
##	CSI076	2.890675e-05	0.0000000000	0	0	0	0.0000000000
##		0tu02719	0tu02720	0tu02721	0tu02722	0tu02723	0tu02724
##	CSI001	0	0.0000000000	0.00000e+00	0	0	0
##	CSI012	0	0.0005519906	0.00000e+00	0	0	0
##	CSI022	0	0.0000000000	0.00000e+00	0	0	0
##	CSI044	0	0.0000000000	1.97157e-05	0	0	0
##	CSI055	0	0.0000000000	0.00000e+00	0	0	0
##	CSI065	0	0.0000000000	0.00000e+00	0	0	0
##	CSI076	0	0.0000000000	0.00000e+00	0	0	0
##		0tu02725	0tu02726	0tu02727	0tu02728	0tu02729	

##	CSI001	0	0.000000e+00	5.863314e-04	0.000000e+00	0.000000e+00
##	CSI012	0	5.174912e-05	5.174912e-05	0.000000e+00	0.000000e+00
##	CSI022	0	6.454667e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI044	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI055	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI065	0	3.782005e-05	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI076	0	0.000000e+00	0.000000e+00	0.000000e+00	2.890675e-05
##		0tu02730	0tu02731	0tu02732	0tu02733	0tu02734
##	CSI001	0.000000e+00	0.000000e+00	0.0000000000	1.172663e-04	0
##	CSI012	0.000000e+00	8.624853e-05	0.0000000000	0.000000e+00	0
##	CSI022	0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00	0
##	CSI044	0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00	0
##	CSI055	0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00	0
##	CSI065	0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00	0
##	CSI076	2.023472e-04	0.000000e+00	0.0000000000	0.000000e+00	0
##		0tu02735	0tu02736	0tu02737	0tu02738	0tu02739
##	CSI001	0.000000e+00	0	0.000000e+00	0	0 0.000000e+00
##	CSI012	1.138481e-03	0	0.000000e+00	0	0 8.624853e-05
##	CSI022	0.000000e+00	0	0.000000e+00	0	0 0.000000e+00
##	CSI044	0.000000e+00	0	0.000000e+00	0	0 0.000000e+00
##	CSI055	0.000000e+00	0	2.151417e-04	0	0 0.000000e+00
##	CSI065	0.000000e+00	0	0.000000e+00	0	0 0.000000e+00
##	CSI076	0.000000e+00	0	1.445337e-04	0	0 0.000000e+00
##		0tu02741	0tu02742	0tu02743	0tu02744	0tu02745
##	CSI001	0	0	0 0.000000e+00	0.000000e+00	0
##	CSI012	0	0	0 0.000000e+00	0.000000e+00	0
##	CSI022	0	0	0 0.000000e+00	0.000000e+00	0
##	CSI044	0	0	0 0.000000e+00	0.000000e+00	0
##	CSI055	0	0	0 0.000000e+00	8.605667e-05	0
##	CSI065	0	0	0 0.000000e+00	0.000000e+00	0
##	CSI076	0	0	0 0.000000e+00	0.000000e+00	0
##		0tu02747	0tu02748	0tu02749	0tu02750	0tu02751
##	CSI001	0	0	2.345326e-05	0.000000e+00	0.000000e+00
##	CSI012	0	0	3.449941e-05	0.000000e+00	3.449941e-05
##	CSI022	0	0	0.000000e+00	2.151556e-05	1.075778e-04
##	CSI044	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI055	0	0	6.454250e-05	0.000000e+00	0.000000e+00
##	CSI065	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI076	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##		0tu02752	0tu02753	0tu02754	0tu02755	0tu02756
##	CSI001	0.0000000000	0	4.690652e-05	2.345326e-05	0.0000000000
##	CSI012	0.0000000000	0	3.449941e-05	3.449941e-05	0.0000000000
##	CSI022	0.0001290933	0	0.000000e+00	0.000000e+00	0.0000000000
##	CSI044	0.0000000000	0	0.000000e+00	0.000000e+00	0.0000000000
##	CSI055	0.0000000000	0	0.000000e+00	0.000000e+00	0.0000000000
##	CSI065	0.0000000000	0	0.000000e+00	0.000000e+00	0.0009076813
##	CSI076	0.0000000000	0	0.000000e+00	0.000000e+00	0.0000000000
##		0tu02757	0tu02758	0tu02759	0tu02760	0tu02761
##	CSI001	0.0000000000	7.035977e-05	0.000000e+00	0	0
##	CSI012	0.0000000000	3.449941e-05	0.000000e+00	0	0
##	CSI022	0.0000000000	4.303111e-05	0.000000e+00	0	0
##	CSI044	0.0000000000	0.000000e+00	0.000000e+00	0	0
##	CSI055	0.0000000000	0.000000e+00	1.075708e-04	0	0
##	CSI065	0.0001134602	0.000000e+00	0.000000e+00	0	0

```

## CSI076 0.0000000000 0.000000e+00 0.000000e+00 0 0 0
## 0tu02763 0tu02764 0tu02765 0tu02766 0tu02767 0tu02768 0tu02769
## CSI001 0 0 0 0 0 0 0
## CSI012 0 0 0 0 0 0 0
## CSI022 0 0 0 0 0 0 0
## CSI044 0 0 0 0 0 0 0
## CSI055 0 0 0 0 0 0 0
## CSI065 0 0 0 0 0 0 0
## CSI076 0 0 0 0 0 0 0
## 0tu02770 0tu02771 0tu02772 0tu02773 0tu02774 0tu02775
## CSI001 0.0000000000 2.345326e-05 0 9.381303e-05 0 0
## CSI012 0.0000000000 0.000000e+00 0 2.587456e-04 0 0
## CSI022 0.0000000000 0.000000e+00 0 0.000000e+00 0 0
## CSI044 0.0000000000 0.000000e+00 0 0.000000e+00 0 0
## CSI055 0.0000000000 0.000000e+00 0 0.000000e+00 0 0
## CSI065 0.0000000000 0.000000e+00 0 0.000000e+00 0 0
## CSI076 0.0000000000 2.890675e-05 0 5.781349e-05 0 0
## 0tu02776 0tu02777 0tu02778 0tu02779 0tu02780 0tu02781
## CSI001 0 2.345326e-05 0 0.000000e+00 2.110793e-04 0
## CSI012 0 0.000000e+00 0 0.000000e+00 0.000000e+00 0
## CSI022 0 0.000000e+00 0 0.000000e+00 0.000000e+00 0
## CSI044 0 0.000000e+00 0 0.000000e+00 0.000000e+00 0
## CSI055 0 0.000000e+00 0 2.151417e-05 1.075708e-04 0
## CSI065 0 0.000000e+00 0 9.833214e-04 0.000000e+00 0
## CSI076 0 0.000000e+00 0 0.000000e+00 8.672024e-05 0
## 0tu02782 0tu02783 0tu02784 0tu02785 0tu02786
## CSI001 0.000000e+00 0.0000000000 0 2.345326e-05 0.000000e+00
## CSI012 0.000000e+00 0.0000000000 0 0.000000e+00 0.000000e+00
## CSI022 0.000000e+00 0.0000000000 0 0.000000e+00 4.303111e-05
## CSI044 0.000000e+00 0.0000000000 0 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00 0.0001721133 0 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00 0.0000000000 0 0.000000e+00 0.000000e+00
## CSI076 2.890675e-05 0.0000000000 0 0.000000e+00 0.000000e+00
## 0tu02787 0tu02788 0tu02789 0tu02790 0tu02791 0tu02792
## CSI001 0 0.000000e+00 4.690652e-05 0.000000e+00 0 0
## CSI012 0 0.000000e+00 1.724971e-05 0.000000e+00 0 0
## CSI022 0 0.000000e+00 0.000000e+00 0.000000e+00 0 0
## CSI044 0 0.000000e+00 0.000000e+00 0.000000e+00 0 0
## CSI055 0 2.151417e-05 0.000000e+00 0.000000e+00 0 0
## CSI065 0 0.000000e+00 0.000000e+00 0.000000e+00 0 0
## CSI076 0 0.000000e+00 0.000000e+00 0.000000e+00 0 0
## 0tu02793 0tu02794 0tu02795 0tu02796 0tu02797 0tu02798
## CSI001 0.000000e+00 0 0 0 0.000000e+00 0
## CSI012 0.000000e+00 0 0 0 0.000000e+00 0
## CSI022 0.000000e+00 0 0 0 0.000000e+00 0
## CSI044 0.000000e+00 0 0 0 0.000000e+00 0
## CSI055 1.721133e-04 0 0 0 0.000000e+00 0
## CSI065 9.076813e-04 0 0 0 3.782005e-04 0
## CSI076 8.672024e-05 0 0 0 0.000000e+00 0
## 0tu02799 0tu02800 0tu02801 0tu02802 0tu02803 0tu02804
## CSI001 2.345326e-05 0 0 0 0 0.000000e+00
## CSI012 5.174912e-05 0 0 0 0 1.724971e-05
## CSI022 0.000000e+00 0 0 0 0 0.000000e+00
## CSI044 0.000000e+00 0 0 0 0 0.000000e+00

```

##	CSI055	0.000000e+00	0	0	0	0	1.936275e-04
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI076	0.000000e+00	0	0	0	0	8.672024e-05
##		0tu02805	0tu02806	0tu02807	0tu02808	0tu02809	0tu02810
##	CSI001	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI012	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI022	0	0	2.151556e-05	0	0	0.000000e+00
##	CSI044	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI055	0	0	0.000000e+00	0	0	2.151417e-05
##	CSI065	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI076	0	0	0.000000e+00	0	0	0.000000e+00
##		0tu02811	0tu02812	0tu02813	0tu02814	0tu02815	
##	CSI001	2.345326e-05	0.000000e+00	7.035977e-05	0	0.000000e+00	
##	CSI012	0.000000e+00	0.000000e+00	1.724971e-05	0	0.000000e+00	
##	CSI022	0.000000e+00	0.000000e+00	2.151556e-04	0	0.000000e+00	
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI055	0.000000e+00	4.302833e-05	0.000000e+00	0	0.000000e+00	
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI076	0.000000e+00	0.000000e+00	0.000000e+00	0	0.000000e+00	
##		0tu02816	0tu02817	0tu02818	0tu02819	0tu02820	0tu02821
##	CSI001	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	1.724971e-05	0	0	0
##	CSI022	0	0	1.075778e-04	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0
##		0tu02823	0tu02824	0tu02825	0tu02826	0tu02827	0tu02828
##	CSI001	0	2.345326e-05	0	0	0	2.345326e-05
##	CSI012	0	0.000000e+00	0	0	0	1.379977e-04
##	CSI022	0	0.000000e+00	0	0	0	3.442489e-04
##	CSI044	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI055	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI065	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI076	0	0.000000e+00	0	0	0	0.000000e+00
##		0tu02829	0tu02830	0tu02831	0tu02832	0tu02833	0tu02834
##	CSI001	0	0.0000000000	0	0	0	0.000000e+00
##	CSI012	0	0.0000000000	0	0	0	1.724971e-05
##	CSI022	0	0.0000000000	0	0	0	0.000000e+00
##	CSI044	0	0.0000000000	0	0	0	0.000000e+00
##	CSI055	0	0.0000000000	0	0	0	4.302833e-05
##	CSI065	0	0.0000000000	0	0	0	0.000000e+00
##	CSI076	0	0.0000000000	0	0	0	0.000000e+00
##		0tu02835	0tu02836	0tu02837	0tu02838	0tu02839	0tu02840
##	CSI001	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI012	3.449941e-05	0	0	0.000000e+00	0	0
##	CSI022	6.454667e-05	0	0	8.606222e-05	0	0
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI055	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0
##		0tu02841	0tu02842	0tu02843	0tu02844	0tu02845	0tu02846
##	CSI001	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0.000000e+00

##	CSI022	0	0	0	0	0	0 0.000000e+00
##	CSI044	0	0	0	0	0	0 0.000000e+00
##	CSI055	0	0	0	0	0	0 0.000000e+00
##	CSI065	0	0	0	0	0	0 3.782005e-05
##	CSI076	0	0	0	0	0	0 5.781349e-05
##		0tu02848	0tu02849	0tu02850	0tu02851	0tu02852	0tu02853
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI012	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI055	4.302833e-05	0.000000e+00	0	0	0	0
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI076	0.000000e+00	2.890675e-05	0	0	0	0
##		0tu02854	0tu02855	0tu02856	0tu02857	0tu02858	
##	CSI001	0.000000e+00	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00		
##	CSI012	1.724971e-05	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00		
##	CSI022	0.000000e+00	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00		
##	CSI044	0.000000e+00	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00		
##	CSI055	0.000000e+00	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00		
##	CSI065	0.000000e+00	0 0.000000e+00	0 7.564010e-05			
##	CSI076	2.890675e-05	0 0.000000e+00	0 2.890675e-05			
##		0tu02859	0tu02860	0tu02861	0tu02862	0tu02863	0tu02864
##	CSI001	2.345326e-05	0.000000e+00	0	0	0	0
##	CSI012	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI055	0.000000e+00	4.302833e-05	0	0	0	0
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu02865	0tu02866	0tu02867	0tu02868	0tu02869	0tu02870
##	CSI001	0.0001172663	1.876261e-04	0.000000e+00	0	0	0
##	CSI012	0.0001034982	8.624853e-05	0.000000e+00	0	0	0
##	CSI022	0.0001721244	0.000000e+00	0.000000e+00	0	0	0
##	CSI044	0.0000000000	0.000000e+00	0.000000e+00	0	0	0
##	CSI055	0.0000000000	0.000000e+00	0.000000e+00	0	0	0
##	CSI065	0.0000000000	0.000000e+00	0.000000e+00	0	0	0
##	CSI076	0.0000000000	0.000000e+00	5.781349e-05	0	0	0
##		0tu02871	0tu02872	0tu02873	0tu02874	0tu02875	0tu02876
##	CSI001	0.000000e+00	0 0.000000e+00	0	0	0	0
##	CSI012	0.000000e+00	0 0.000000e+00	0	0	0	0
##	CSI022	0.000000e+00	0 0.000000e+00	0	0	0	0
##	CSI044	0.000000e+00	0 0.000000e+00	0	0	0	0
##	CSI055	4.087692e-04	0 0.000000e+00	0	0	0	0
##	CSI065	0.000000e+00	0 1.134602e-04	0	0	0	0
##	CSI076	2.890675e-05	0 3.179742e-04	0	0	0	0
##		0tu02877	0tu02878	0tu02879	0tu02880	0tu02881	
##	CSI001	0.000000e+00	0.000000e+00	2.345326e-05	7.035977e-05	0	
##	CSI012	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI022	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI055	6.454250e-05	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI076	0.000000e+00	2.890675e-05	0.000000e+00	0.000000e+00	0	
##		0tu02882	0tu02883	0tu02884	0tu02885	0tu02886	

```

## CSI001 0.000000e+00 0.000000e+00 0.000000e+00      0 2.345326e-05
## CSI012 0.000000e+00 0.000000e+00 8.624853e-05      0 0.000000e+00
## CSI022 2.151556e-05 0.000000e+00 6.454667e-05      0 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI055 1.290850e-04 4.302833e-05 0.000000e+00      0 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
##      0tu02887      0tu02888 0tu02889 0tu02890      0tu02891 0tu02892
## CSI001 2.345326e-05 0.000000e+00      0      0 9.381303e-05      0
## CSI012 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI022 0.000000e+00 0.000000e+00      0      0 4.303111e-05      0
## CSI044 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI055 0.000000e+00 2.151417e-05      0      0 0.000000e+00      0
## CSI065 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI076 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
##      0tu02893      0tu02894 0tu02895 0tu02896 0tu02897 0tu02898
## CSI001      0 0.0000000000      0      0      0      0
## CSI012      0 0.0000000000      0      0      0      0
## CSI022      0 0.0000000000      0      0      0      0
## CSI044      0 0.0000000000      0      0      0      0
## CSI055      0 0.0000000000      0      0      0      0
## CSI065      0 0.0000000000      0      0      0      0
## CSI076      0 0.0000000000      0      0      0      0
##      0tu02899 0tu02900 0tu02901      0tu02902      0tu02903 0tu02904
## CSI001 2.345326e-05      0      0 0.000000e+00 0.000000e+00      0
## CSI012 1.724971e-05      0      0 1.724971e-05 1.034982e-04      0
## CSI022 4.303111e-05      0      0 0.000000e+00 4.303111e-05      0
## CSI044 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI055 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI065 0.000000e+00      0      0 0.000000e+00 3.782005e-05      0
## CSI076 0.000000e+00      0      0 0.000000e+00 2.890675e-05      0
##      0tu02905 0tu02906      0tu02907 0tu02908 0tu02909      0tu02910
## CSI001 2.345326e-05      0 2.110793e-04      0      0 0.000000e+00
## CSI012 3.449941e-05      0 1.034982e-04      0      0 1.724971e-05
## CSI022 2.366711e-04      0 2.151556e-05      0      0 0.000000e+00
## CSI044 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI055 2.151417e-05      0 0.000000e+00      0      0 0.000000e+00
## CSI065 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI076 8.672024e-05      0 0.000000e+00      0      0 0.000000e+00
##      0tu02911 0tu02912      0tu02913      0tu02914 0tu02915
## CSI001 0.000000e+00      0 0.000000e+00 0.0000000000      0
## CSI012 0.000000e+00      0 0.000000e+00 0.0000000000      0
## CSI022 0.000000e+00      0 0.000000e+00 0.0000000000      0
## CSI044 0.000000e+00      0 0.000000e+00 0.0000000000      0
## CSI055 7.099675e-04      0 2.151417e-05 0.0002796842      0
## CSI065 0.000000e+00      0 0.000000e+00 0.0000000000      0
## CSI076 8.672024e-05      0 0.000000e+00 0.0000000000      0
##      0tu02916 0tu02917 0tu02918      0tu02919      0tu02920
## CSI001 0.000000e+00 0.000000e+00      0 0.0000000000 0.000000e+00
## CSI012 0.000000e+00 0.000000e+00      0 0.0000000000 0.000000e+00
## CSI022 0.000000e+00 0.000000e+00      0 0.0000000000 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0 0.0000000000 0.000000e+00
## CSI055 8.605667e-04 2.151417e-05      0 0.0000000000 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00      0 0.0000000000 0.000000e+00

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## CSI076 0.000000e+00 0.000000e+00 0 0.0000000000 2.890675e-05
##      0tu02921 0tu02922 0tu02923 0tu02924 0tu02925 0tu02926
## CSI001 0.000000e+00 0 0.000000e+00 0 0.000000e+00 0
## CSI012 0.000000e+00 0 0.000000e+00 0 8.624853e-05 0
## CSI022 0.000000e+00 0 0.000000e+00 0 6.454667e-05 0
## CSI044 0.000000e+00 0 0.000000e+00 0 0.000000e+00 0
## CSI055 0.000000e+00 0 0.000000e+00 0 0.000000e+00 0
## CSI065 0.000000e+00 0 7.56401e-05 0 0.000000e+00 0
## CSI076 0.000000e+00 0 0.000000e+00 0 0.000000e+00 0
##      0tu02927 0tu02928 0tu02929 0tu02930 0tu02931 0tu02932
## CSI001 0 0.000000e+00 0.00000000 0 2.345326e-05 0
## CSI012 0 0.000000e+00 0.00000000 0 0.000000e+00 0
## CSI022 0 0.000000e+00 0.00000000 0 0.000000e+00 0
## CSI044 0 0.000000e+00 0.00000000 0 0.000000e+00 0
## CSI055 0 6.454250e-05 0.00051634 0 0.000000e+00 0
## CSI065 0 0.000000e+00 0.00000000 0 0.000000e+00 0
## CSI076 0 5.781349e-05 0.00000000 0 0.000000e+00 0
##      0tu02933 0tu02934 0tu02935 0tu02936 0tu02937 0tu02938
## CSI001 0.0000000000 0.000000e+00 0 0 4.690652e-05 0
## CSI012 0.0000000000 0.000000e+00 0 0 6.899883e-05 0
## CSI022 0.0000000000 0.000000e+00 0 0 0.000000e+00 0
## CSI044 0.0000000000 0.000000e+00 0 0 0.000000e+00 0
## CSI055 0.0000000000 3.872550e-04 0 0 0.000000e+00 0
## CSI065 0.0001134602 0.000000e+00 0 0 0.000000e+00 0
## CSI076 0.0000000000 0.000000e+00 0 0 0.000000e+00 0
##      0tu02939 0tu02940 0tu02941 0tu02942 0tu02943 0tu02944
## CSI001 0.000000e+00 0.000000e+00 0 0 0 0
## CSI012 0.000000e+00 0.000000e+00 0 0 0 0
## CSI022 0.000000e+00 0.000000e+00 0 0 0 0
## CSI044 0.000000e+00 0.000000e+00 0 0 0 0
## CSI055 5.378542e-04 4.302833e-05 0 0 0 0
## CSI065 0.000000e+00 0.000000e+00 0 0 0 0
## CSI076 0.000000e+00 0.000000e+00 0 0 0 0
##      0tu02945 0tu02946 0tu02947 0tu02948 0tu02949 0tu02950
## CSI001 0 0.000000e+00 0.000000e+00 0.000000e+00 0 0
## CSI012 0 3.449941e-05 1.724971e-05 1.724971e-05 0 0
## CSI022 0 4.303111e-05 0.000000e+00 0.000000e+00 0 0
## CSI044 0 0.000000e+00 0.000000e+00 0.000000e+00 0 0
## CSI055 0 0.000000e+00 6.454250e-05 0.000000e+00 0 0
## CSI065 0 0.000000e+00 0.000000e+00 0.000000e+00 0 0
## CSI076 0 0.000000e+00 4.914147e-04 0.000000e+00 0 0
##      0tu02951 0tu02952 0tu02953 0tu02954 0tu02955
## CSI001 0.0000000000 2.345326e-05 0.000000e+00 0.000000e+00 0
## CSI012 0.0000000000 8.624853e-05 1.724971e-05 0.000000e+00 0
## CSI022 0.0000000000 0.000000e+00 0.000000e+00 0.000000e+00 0
## CSI044 0.0000000000 0.000000e+00 0.000000e+00 6.111867e-04 0
## CSI055 0.0000000000 0.000000e+00 4.302833e-05 4.302833e-05 0
## CSI065 0.0000000000 0.000000e+00 0.000000e+00 1.134602e-04 0
## CSI076 0.0000000000 0.000000e+00 0.000000e+00 0.000000e+00 0
##      0tu02956 0tu02957 0tu02958 0tu02959 0tu02960 0tu02961 0tu02962
## CSI001 0 0 0 0.000000e+00 0 0 0
## CSI012 0 0 0 6.899883e-05 0 0 0
## CSI022 0 0 0 0.000000e+00 0 0 0
## CSI044 0 0 0 0.000000e+00 0 0 0

```



##	CSI055	0	0	0 0.000000e+00	0	0	0
##	CSI065	0	0	0 0.000000e+00	0	0	0
##	CSI076	0	0	0 0.000000e+00	0	0	0
##	0tu02963	0tu02964	0tu02965	0tu02966	0tu02967		
##	CSI001	0 4.690652e-05	0 0.000000e+00	0.000000e+00			
##	CSI012	0 0.000000e+00	0 0.000000e+00	3.449941e-05			
##	CSI022	0 0.000000e+00	0 2.151556e-05	0.000000e+00			
##	CSI044	0 0.000000e+00	0 0.000000e+00	0.000000e+00			
##	CSI055	0 0.000000e+00	0 4.302833e-05	0.000000e+00			
##	CSI065	0 0.000000e+00	0 0.000000e+00	0.000000e+00			
##	CSI076	0 0.000000e+00	0 0.000000e+00	0.000000e+00			
##	0tu02968	0tu02969	0tu02970	0tu02971	0tu02972	0tu02973	
##	CSI001	0.000000e+00	0	0 7.035977e-05	0 0.000000e+00		
##	CSI012	0.000000e+00	0	0 1.724971e-05	0 0.000000e+00		
##	CSI022	0.000000e+00	0	0 0.000000e+00	0 0.000000e+00		
##	CSI044	3.943140e-05	0	0 0.000000e+00	0 0.000000e+00		
##	CSI055	0.000000e+00	0	0 0.000000e+00	0 0.000000e+00		
##	CSI065	0.000000e+00	0	0 3.782005e-05	0 0.000000e+00		
##	CSI076	0.000000e+00	0	0 0.000000e+00	0 5.781349e-05		
##	0tu02974	0tu02975	0tu02976	0tu02977	0tu02978	0tu02979	
##	CSI001	0 0.0000000000	0	0 0.000000e+00	0.000000e+00		
##	CSI012	0 0.0006554889	0	0 0.000000e+00	0.000000e+00		
##	CSI022	0 0.0000000000	0	0 0.000000e+00	0.000000e+00		
##	CSI044	0 0.0000000000	0	0 0.000000e+00	0.000000e+00		
##	CSI055	0 0.0000000000	0	0 0.000000e+00	0.000000e+00		
##	CSI065	0 0.0000000000	0	0 0.000000e+00	3.782005e-05		
##	CSI076	0 0.0000000000	0	0 5.781349e-05	5.781349e-05		
##	0tu02980	0tu02981	0tu02982	0tu02983	0tu02984	0tu02985	
##	CSI001	0.0000000000	0	0 0.00000e+00	0.000000e+00	0	
##	CSI012	0.0000000000	0	0 0.00000e+00	0.000000e+00	0	
##	CSI022	0.0000000000	0	0 0.00000e+00	0.000000e+00	0	
##	CSI044	0.0000000000	0	0 0.00000e+00	0.000000e+00	0	
##	CSI055	0.0004948258	0	0 6.45425e-05	0.000000e+00	0	
##	CSI065	0.0000000000	0	0 0.00000e+00	0.000000e+00	0	
##	CSI076	0.0000000000	0	0 0.00000e+00	0.000000e+00	0	
##	0tu02986	0tu02987	0tu02988	0tu02989	0tu02990	0tu02991	
##	CSI001	0	0 0.000000e+00	2.345326e-05	0 0.000000e+00		
##	CSI012	0	0 1.724971e-05	0.000000e+00	0 0.000000e+00		
##	CSI022	0	0 0.000000e+00	4.303111e-05	0 0.000000e+00		
##	CSI044	0	0 0.000000e+00	0.000000e+00	0 0.000000e+00		
##	CSI055	0	0 1.505992e-04	0.000000e+00	0 0.000000e+00		
##	CSI065	0	0 0.000000e+00	0.000000e+00	0 0.000000e+00		
##	CSI076	0	0 0.000000e+00	0.000000e+00	0 0.000000e+00		
##	0tu02992	0tu02993	0tu02994	0tu02995	0tu02996	0tu02997	
##	CSI001	0	0	0 0.000000e+00	0		
##	CSI012	0	0	0 0.000000e+00	0		
##	CSI022	0	0	0 0.000000e+00	0		
##	CSI044	0	0	0 0.000000e+00	0		
##	CSI055	0	0	0 0.000000e+00	0		
##	CSI065	0	0	0 0.000000e+00	0		
##	CSI076	0	0	0 2.890675e-05	0		
##	0tu02998	0tu02999	0tu03000	0tu03001	0tu03002		
##	CSI001	0.000000e+00	4.690652e-05	4.690652e-05	0 0.000000e+00		
##	CSI012	0.000000e+00	5.174912e-05	1.034982e-04	0 0.000000e+00		

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## CSI022 2.151556e-05 0.000000e+00 0.000000e+00 0 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0 0.000000e+00
## CSI055 0.000000e+00 0.000000e+00 2.151417e-05 0 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0 0.000000e+00
## CSI076 2.601607e-04 2.890675e-05 0.000000e+00 0 0.000000e+00
##      0tu03003      0tu03004      0tu03005 0tu03006 0tu03007
## CSI001 1.172663e-04 0.000000e+00 7.035977e-05 0 0
## CSI012 5.174912e-05 0.000000e+00 0.000000e+00 0 0
## CSI022 4.303111e-05 0.000000e+00 0.000000e+00 0 0
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0 0
## CSI055 0.000000e+00 2.151417e-05 4.302833e-05 0 0
## CSI065 0.000000e+00 1.891003e-04 0.000000e+00 0 0
## CSI076 0.000000e+00 8.672024e-05 0.000000e+00 0 0
##      0tu03008      0tu03009 0tu03010 0tu03011      0tu03012 0tu03013
## CSI001 4.690652e-05 2.345326e-05 0 0 7.035977e-05 0
## CSI012 0.000000e+00 0.000000e+00 0 0 2.932450e-04 0
## CSI022 0.000000e+00 0.000000e+00 0 0 0.000000e+00 0
## CSI044 0.000000e+00 0.000000e+00 0 0 0.000000e+00 0
## CSI055 1.936275e-04 1.075708e-04 0 0 0.000000e+00 0
## CSI065 0.000000e+00 0.000000e+00 0 0 0.000000e+00 0
## CSI076 0.000000e+00 0.000000e+00 0 0 0.000000e+00 0
##      0tu03014      0tu03015      0tu03016      0tu03017      0tu03018
## CSI001 0 2.345326e-05 2.345326e-05 2.345326e-05 2.345326e-05
## CSI012 0 1.724971e-05 0.000000e+00 1.724971e-05 1.207479e-04
## CSI022 0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044 0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI065 0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076 0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##      0tu03019 0tu03020 0tu03021      0tu03022 0tu03023      0tu03024
## CSI001 0 0 0 0.000000e+00 0 0.000000e+00
## CSI012 0 0 0 1.724971e-05 0 0.000000e+00
## CSI022 0 0 0 0.000000e+00 0 0.000000e+00
## CSI044 0 0 0 0.000000e+00 0 0.000000e+00
## CSI055 0 0 0 0.000000e+00 0 1.936275e-04
## CSI065 0 0 0 0.000000e+00 0 0.000000e+00
## CSI076 0 0 0 0.000000e+00 0 8.093889e-04
##      0tu03025      0tu03026 0tu03027      0tu03028      0tu03029
## CSI001 0.000000e+00 0.000000e+00 0 0.000000e+00 0.0000000000
## CSI012 0.000000e+00 3.449941e-05 0 0.000000e+00 0.0000000000
## CSI022 0.000000e+00 0.000000e+00 0 0.000000e+00 0.0000000000
## CSI044 0.000000e+00 0.000000e+00 0 0.000000e+00 0.0000000000
## CSI055 0.000000e+00 0.000000e+00 0 0.000000e+00 0.0000000000
## CSI065 0.000000e+00 0.000000e+00 0 0.000000e+00 0.0000000000
## CSI076 0.000000e+00 0.000000e+00 0 2.890675e-05 0.0000000000
##      0tu03030 0tu03031      0tu03032      0tu03033 0tu03034 0tu03035
## CSI001 0.000000e+00 0 2.345326e-05 0.00000e+00 0 0
## CSI012 0.000000e+00 0 0.000000e+00 0.00000e+00 0 0
## CSI022 0.000000e+00 0 8.606222e-05 0.00000e+00 0 0
## CSI044 0.000000e+00 0 0.000000e+00 1.97157e-05 0 0
## CSI055 0.000000e+00 0 0.000000e+00 0.00000e+00 0 0
## CSI065 5.294807e-04 0 0.000000e+00 0.00000e+00 0 0
## CSI076 5.781349e-05 0 0.000000e+00 0.00000e+00 0 0
##      0tu03036      0tu03037 0tu03038      0tu03039 0tu03040 0tu03041

```

##	CSI001	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI012	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI022	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI044	0	1.971570e-05	0	0.000000e+00	0	0	
##	CSI055	0	1.290850e-04	0	0.000000e+00	0	0	
##	CSI065	0	0.000000e+00	0	3.782005e-05	0	0	
##	CSI076	0	0.000000e+00	0	0.000000e+00	0	0	
##		0tu03042	0tu03043	0tu03044	0tu03045	0tu03046	0tu03047	0tu03048
##	CSI001	0	0	0.0000000000	0	0	0	0
##	CSI012	0	0	0.0000000000	0	0	0	0
##	CSI022	0	0	0.0000000000	0	0	0	0
##	CSI044	0	0	0.0000000000	0	0	0	0
##	CSI055	0	0	0.000129085	0	0	0	0
##	CSI065	0	0	0.0000000000	0	0	0	0
##	CSI076	0	0	0.0000000000	0	0	0	0
##		0tu03049	0tu03050	0tu03051	0tu03052	0tu03053		0tu03054
##	CSI001	0	0	0.000000e+00	2.345326e-05	0	0.000000e+00	
##	CSI012	0	0	0.000000e+00	0.000000e+00	0	6.899883e-05	
##	CSI022	0	0	0.000000e+00	0.000000e+00	0	4.303111e-05	
##	CSI044	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0	4.302833e-05	6.454250e-05	0	5.808825e-04	
##	CSI065	0	0	0.000000e+00	0.000000e+00	0	3.782005e-05	
##	CSI076	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##		0tu03055	0tu03056	0tu03057	0tu03058	0tu03059		0tu03060
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	2.579858e-04	
##	CSI012	0.000000e+00	0	0	0	0.000000e+00	3.449941e-05	
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI076	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##		0tu03061	0tu03062	0tu03063	0tu03064	0tu03065		0tu03066
##	CSI001	0	0.0000000000	0	0.000000e+00	0	0	
##	CSI012	0	0.0000000000	0	0.000000e+00	0	0	
##	CSI022	0	0.0000000000	0	0.000000e+00	0	0	
##	CSI044	0	0.0000000000	0	0.000000e+00	0	0	
##	CSI055	0	0.0000000000	0	0.000000e+00	0	0	
##	CSI065	0	0.0000000000	0	0.000000e+00	0	0	
##	CSI076	0	0.0001445337	0	2.601607e-04	0	0	
##		0tu03067	0tu03068	0tu03069	0tu03070	0tu03071	0tu03072	0tu03073
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	3.449941e-05	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu03074	0tu03075	0tu03076	0tu03077	0tu03078	0tu03079	0tu03080
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##		0tu03081	0tu03082	0tu03083	0tu03084	0tu03085	0tu03086	
##	CSI001	0	0	0	0	0.000000e+00	9.381303e-05	
##	CSI012	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI022	0	0	0	0	0.000000e+00	2.151556e-05	
##	CSI044	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI055	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI065	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI076	0	0	0	0	0.000000e+00	0.000000e+00	
##		0tu03087	0tu03088	0tu03089	0tu03090	0tu03091		
##	CSI001	0.000000e+00	1.172663e-04	0.000000e+00	0	0		
##	CSI012	0.000000e+00	1.552474e-04	1.724971e-05	0	0		
##	CSI022	0.000000e+00	8.606222e-05	0.000000e+00	0	0		
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0		
##	CSI055	0.000000e+00	0.000000e+00	0.000000e+00	0	0		
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0	0		
##	CSI076	0.000000e+00	0.000000e+00	0.000000e+00	0	0		
##		0tu03092	0tu03093	0tu03094	0tu03095	0tu03096	0tu03097	
##	CSI001	7.035977e-05	0.000000e+00	0	0	0	0.0000000000	
##	CSI012	0.000000e+00	5.174912e-05	0	0	0	0.0000000000	
##	CSI022	4.303111e-05	0.000000e+00	0	0	0	0.0000000000	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0.0002168727	
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0.0002581700	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0.0006051208	
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0.0000000000	
##		0tu03098	0tu03099	0tu03100	0tu03101	0tu03102	0tu03103	
##	CSI001	7.035977e-05	0	0	0.0000000000	0	0.000000e+00	
##	CSI012	0.000000e+00	0	0	0.0000000000	0	0.000000e+00	
##	CSI022	0.000000e+00	0	0	0.0000000000	0	0.000000e+00	
##	CSI044	0.000000e+00	0	0	0.0000000000	0	0.000000e+00	
##	CSI055	6.454250e-05	0	0	0.0000645425	0	0.000000e+00	
##	CSI065	0.000000e+00	0	0	0.0001512802	0	3.782005e-05	
##	CSI076	0.000000e+00	0	0	0.0000000000	0	2.890675e-05	
##		0tu03104	0tu03105	0tu03106	0tu03107	0tu03108	0tu03109	
##	CSI001	0	0	1.407195e-04	0.000000e+00	0	0	
##	CSI012	0	0	3.449941e-05	0.000000e+00	0	0	
##	CSI022	0	0	4.303111e-05	0.000000e+00	0	0	
##	CSI044	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI055	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI065	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI076	0	0	0.000000e+00	0.000000e+00	0	0	
##		0tu03110	0tu03111	0tu03112	0tu03113	0tu03114	0tu03115	0tu03116
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	1.290850e-04	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	5.781349e-05	0
##		0tu03117	0tu03118	0tu03119	0tu03120	0tu03121	0tu03122	
##	CSI001	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI012	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI022	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI044	0.000000e+00	0	0	0	0	0.000000e+00	

##	CSI055	2.151417e-05	0	0	0	0	4.302833e-05
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI076	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu03123	0tu03124	0tu03125	0tu03126	0tu03127	0tu03128
##	CSI001	0	0	0	9.381303e-05	0.000000e+00	0
##	CSI012	0	0	0	0.000000e+00	1.724971e-05	0
##	CSI022	0	0	0	2.151556e-05	0.000000e+00	0
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI055	0	0	0	0.000000e+00	2.151417e-05	0
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI076	0	0	0	5.781349e-05	2.890675e-05	0
##		0tu03129	0tu03130	0tu03131	0tu03132	0tu03133	0tu03134
##	CSI001	0.0001641728	0	0	2.345326e-05	0	0.0000000000
##	CSI012	0.0000000000	0	0	1.724971e-05	0	0.0000000000
##	CSI022	0.0000000000	0	0	0.000000e+00	0	0.0000000000
##	CSI044	0.0000000000	0	0	0.000000e+00	0	0.0000000000
##	CSI055	0.0000000000	0	0	2.151417e-05	0	0.0000000000
##	CSI065	0.0000000000	0	0	0.000000e+00	0	0.0000000000
##	CSI076	0.0000000000	0	0	0.000000e+00	0	0.0000000000
##		0tu03135	0tu03136	0tu03137	0tu03138	0tu03139	0tu03140
##	CSI001	0.0000000000	0	0	0	0.000000e+00	0
##	CSI012	0.0000000000	0	0	0	0.000000e+00	0
##	CSI022	0.0000000000	0	0	0	0.000000e+00	0
##	CSI044	0.0000000000	0	0	0	0.000000e+00	0
##	CSI055	0.0001721133	0	0	0	8.605667e-05	0
##	CSI065	0.0000000000	0	0	0	0.000000e+00	0
##	CSI076	0.0000000000	0	0	0	0.000000e+00	0
##		0tu03141	0tu03142	0tu03143	0tu03144	0tu03145	
##	CSI001	0.0000000000	0.000000e+00	2.345326e-04	0	0.000000e+00	
##	CSI012	0.0000000000	0.000000e+00	1.379977e-04	0	0.000000e+00	
##	CSI022	0.0000000000	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI044	0.0000000000	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI055	0.0000000000	9.251092e-04	0.000000e+00	0	0.000000e+00	
##	CSI065	0.0000000000	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI076	0.0000000000	0.000000e+00	0.000000e+00	0	0.000000e+00	
##		0tu03146	0tu03147	0tu03148	0tu03149	0tu03150	0tu03151
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI065	3.782005e-05	0	0.000000e+00	0	0	0
##	CSI076	0.000000e+00	0	2.890675e-05	0	0	0
##		0tu03152	0tu03153	0tu03154	0tu03155	0tu03156	0tu03157
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	1.724971e-05	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		0tu03158	0tu03159	0tu03160	0tu03161	0tu03162	0tu03163
##	CSI001	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI012	0.000000e+00	0	0	0.000000e+00	0	0

##	CSI022	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI055	1.075708e-04	0	0	1.075708e-04	0	0
##	CSI065	0.000000e+00	0	0	7.564010e-05	0	0
##	CSI076	0.000000e+00	0	0	8.672024e-05	0	0
##		0tu03164	0tu03165	0tu03166	0tu03167	0tu03168	0tu03169
##	CSI001	0	0	0	4.690652e-05	0	2.345326e-05
##	CSI012	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI022	0	0	0	1.290933e-04	0	0.000000e+00
##	CSI044	0	0	0	0.000000e+00	0	1.774413e-04
##	CSI055	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI076	0	0	0	0.000000e+00	0	0.000000e+00
##		0tu03170	0tu03171	0tu03172	0tu03173	0tu03174	0tu03175
##	CSI001	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0
##	CSI012	0	0.000000e+00	0.000000e+00	0	1.724971e-05	0
##	CSI022	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0
##	CSI044	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0
##	CSI055	0	4.302833e-05	6.669392e-04	0	0.000000e+00	0
##	CSI065	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0
##	CSI076	0	5.781349e-05	2.890675e-05	0	0.000000e+00	0
##		0tu03176	0tu03177	0tu03178	0tu03179	0tu03180	0tu03181
##	CSI001	0	0	0	0	0	1.172663e-04
##	CSI012	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	2.151556e-05
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0.000000e+00
##		0tu03183	0tu03184	0tu03185	0tu03186	0tu03187	
##	CSI001	0	4.690652e-05	2.345326e-05	2.345326e-04	0.0000000000	
##	CSI012	0	1.724971e-05	0.000000e+00	5.174912e-05	0.0000000000	
##	CSI022	0	0.000000e+00	0.000000e+00	6.454667e-05	0.0000000000	
##	CSI044	0	0.000000e+00	0.000000e+00	0.000000e+00	0.0000000000	
##	CSI055	0	0.000000e+00	4.087692e-04	0.000000e+00	0.0003657408	
##	CSI065	0	0.000000e+00	0.000000e+00	0.000000e+00	0.0000000000	
##	CSI076	0	0.000000e+00	8.672024e-05	0.000000e+00	0.0000000000	
##		0tu03188	0tu03189	0tu03190	0tu03191	0tu03192	0tu03193
##	CSI001	0.000000e+00	0	0	0.000000e+00	0.0000000000	0
##	CSI012	0.000000e+00	0	0	0.000000e+00	0.0000000000	0
##	CSI022	0.000000e+00	0	0	4.303111e-05	0.0000000000	0
##	CSI044	0.000000e+00	0	0	0.000000e+00	0.0000000000	0
##	CSI055	2.151417e-05	0	0	2.151417e-05	0.0000000000	0
##	CSI065	0.000000e+00	0	0	0.000000e+00	0.0000000000	0
##	CSI076	0.000000e+00	0	0	0.000000e+00	0.0004046945	0
##		0tu03194	0tu03195	0tu03196	0tu03197	0tu03198	0tu03199
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI012	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI055	4.302833e-05	0	0	0	0.000000e+00	0
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI076	1.242990e-03	0	0	0	0.000000e+00	0
##		0tu03200	0tu03201	0tu03202	0tu03203	0tu03204	0tu03205

##	CSI001	0	0 0.000000e+00	0	0	0
##	CSI012	0	0 0.000000e+00	0	0	0
##	CSI022	0	0 0.000000e+00	0	0	0
##	CSI044	0	0 0.000000e+00	0	0	0
##	CSI055	0	0 6.454250e-05	0	0	0
##	CSI065	0	0 0.000000e+00	0	0	0
##	CSI076	0	0 0.000000e+00	0	0	0
##		0tu03206	0tu03207	0tu03208	0tu03209	0tu03210
##	CSI001	0.000000e+00	3.283456e-04	0.000000000	0.000000e+00	0
##	CSI012	4.829918e-04	1.207479e-04	0.000000000	0.000000e+00	0
##	CSI022	0.000000e+00	0.000000e+00	0.000000000	0.000000e+00	0
##	CSI044	0.000000e+00	0.000000e+00	0.000000000	0.000000e+00	0
##	CSI055	0.000000e+00	0.000000e+00	0.000000000	8.605667e-05	0
##	CSI065	0.000000e+00	0.000000e+00	0.000000000	0.000000e+00	0
##	CSI076	0.000000e+00	2.890675e-05	0.000231254	0.000000e+00	0
##		0tu03211	0tu03212	0tu03213	0tu03214	0tu03215
##	CSI001	0 7.035977e-05		0 0.000000e+00	2.345326e-05	
##	CSI012	0 0.000000e+00		0 0.000000e+00	0.000000e+00	
##	CSI022	0 0.000000e+00		0 0.000000e+00	0.000000e+00	
##	CSI044	0 0.000000e+00		0 0.000000e+00	0.000000e+00	
##	CSI055	0 0.000000e+00		0 2.366558e-04	0.000000e+00	
##	CSI065	0 0.000000e+00		0 0.000000e+00	3.782005e-05	
##	CSI076	0 0.000000e+00		0 8.672024e-05	0.000000e+00	
##		0tu03216	0tu03217	0tu03218	0tu03219	0tu03220
##	CSI001	0.0004221586	0 0.000000e+00	0.000000e+00		0
##	CSI012	0.0000000000	0 0.000000e+00	3.449941e-05		0
##	CSI022	0.0000000000	0 0.000000e+00	2.151556e-05		0
##	CSI044	0.0000000000	0 0.000000e+00	0.000000e+00		0
##	CSI055	0.0000000000	0 4.302833e-05	0.000000e+00		0
##	CSI065	0.0000000000	0 0.000000e+00	0.000000e+00		0
##	CSI076	0.0000000000	0 0.000000e+00	0.000000e+00		0
##		0tu03221	0tu03222	0tu03223	0tu03224	0tu03225
##	CSI001	0.000000e+00	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0
##	CSI055	6.454250e-05	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0
##		0tu03227	0tu03228	0tu03229	0tu03230	0tu03231
##	CSI001	2.345326e-05	0 1.641728e-04		0 0.000000e+00	0
##	CSI012	0.000000e+00	0 1.724971e-05		0 0.000000e+00	0
##	CSI022	4.303111e-05	0 2.151556e-05		0 1.075778e-04	0
##	CSI044	0.000000e+00	0 0.000000e+00		0 0.000000e+00	0
##	CSI055	0.000000e+00	0 0.000000e+00		0 0.000000e+00	0
##	CSI065	0.000000e+00	0 0.000000e+00		0 0.000000e+00	0
##	CSI076	0.000000e+00	0 0.000000e+00		0 0.000000e+00	0
##		0tu03233	0tu03234	0tu03235	0tu03236	0tu03237
##	CSI001	2.345326e-05	0 0.000000e+00	0.000000e+00		0
##	CSI012	1.724971e-05	0 0.000000e+00	0.000000e+00		0
##	CSI022	0.000000e+00	0 0.000000e+00	0.000000e+00		0
##	CSI044	0.000000e+00	0 0.000000e+00	0.000000e+00		0
##	CSI055	0.000000e+00	0 1.290850e-04	4.302833e-05		0
##	CSI065	0.000000e+00	0 0.000000e+00	0.000000e+00		0

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## CSI076 8.672024e-05      0 3.468810e-04 0.000000e+00      0
##      0tu03238 0tu03239      0tu03240      0tu03241      0tu03242
## CSI001 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI012 1.724971e-05      0 1.724971e-05 5.174912e-05 3.449941e-05
## CSI022 0.000000e+00      0 2.151556e-05 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00      0 0.000000e+00 6.454250e-05 0.000000e+00
## CSI065 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
##      0tu03243 0tu03244      0tu03245 0tu03246 0tu03247 0tu03248 0tu03249
## CSI001      0      0 0.0000000000      0      0      0      0
## CSI012      0      0 0.0000000000      0      0      0      0
## CSI022      0      0 0.0000000000      0      0      0      0
## CSI044      0      0 0.0000000000      0      0      0      0
## CSI055      0      0 0.0001505992      0      0      0      0
## CSI065      0      0 0.0000000000      0      0      0      0
## CSI076      0      0 0.0000000000      0      0      0      0
##      0tu03250      0tu03251 0tu03252      0tu03253 0tu03254
## CSI001 4.690652e-05 7.035977e-05      0 0.000000e+00      0
## CSI012 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI022 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI044 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI055 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI065 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI076 0.000000e+00 0.000000e+00      0 0.000000e+00      0
##      0tu03255      0tu03256 0tu03257      0tu03258 0tu03259 0tu03260
## CSI001 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI012 0.000000e+00 6.899883e-05      0 3.449941e-05      0      0
## CSI022 0.000000e+00 1.290933e-04      0 0.000000e+00      0      0
## CSI044 0.000000e+00 0.000000e+00      0 5.914710e-05      0      0
## CSI055 6.454250e-05 0.000000e+00      0 0.000000e+00      0      0
## CSI065 3.782005e-05 0.000000e+00      0 0.000000e+00      0      0
## CSI076 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
##      0tu03261      0tu03262      0tu03263 0tu03264 0tu03265 0tu03266
## CSI001      0 0.000000e+00 0.000000e+00      0      0      0
## CSI012      0 1.724971e-05 1.724971e-05      0      0      0
## CSI022      0 1.075778e-04 0.000000e+00      0      0      0
## CSI044      0 0.000000e+00 0.000000e+00      0      0      0
## CSI055      0 0.000000e+00 0.000000e+00      0      0      0
## CSI065      0 0.000000e+00 0.000000e+00      0      0      0
## CSI076      0 0.000000e+00 0.000000e+00      0      0      0
##      0tu03267 0tu03268 0tu03269 0tu03270 0tu03271      0tu03272 0tu03273
## CSI001      0      0      0      0      0 0.000000e+00      0
## CSI012      0      0      0      0      0 0.000000e+00      0
## CSI022      0      0      0      0      0 0.000000e+00      0
## CSI044      0      0      0      0      0 0.000000e+00      0
## CSI055      0      0      0      0      0 2.151417e-05      0
## CSI065      0      0      0      0      0 0.000000e+00      0
## CSI076      0      0      0      0      0 0.000000e+00      0
##      0tu03274      0tu03275 0tu03276 0tu03277      0tu03278      0tu03279
## CSI001      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI012      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI022      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI044      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00

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## CSI055      0 0.000000e+00      0      0 0.000000e+00 1.075708e-04
## CSI065      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI076      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
##      0tu03280      0tu03281 0tu03282      0tu03283 0tu03284 0tu03285
## CSI001      0 0.000000e+00      0 0.0000000000      0      0
## CSI012      0 0.000000e+00      0 0.0000000000      0      0
## CSI022      0 0.000000e+00      0 0.0000000000      0      0
## CSI044      0 0.000000e+00      0 0.0000000000      0      0
## CSI055      0 2.151417e-05      0 0.0000000000      0      0
## CSI065      0 0.000000e+00      0 0.0000000000      0      0
## CSI076      0 0.000000e+00      0 0.0002601607      0      0
##      0tu03286 0tu03287 0tu03288 0tu03289 0tu03290      0tu03291
## CSI001 0.0000000000      0      0      0      0 2.345326e-05
## CSI012 0.0000000000      0      0      0      0 0.000000e+00
## CSI022 0.0001075778      0      0      0      0 0.000000e+00
## CSI044 0.0000000000      0      0      0      0 0.000000e+00
## CSI055 0.0000000000      0      0      0      0 0.000000e+00
## CSI065 0.0000000000      0      0      0      0 0.000000e+00
## CSI076 0.0000000000      0      0      0      0 0.000000e+00
##      0tu03292 0tu03293 0tu03294      0tu03295      0tu03296 0tu03297
## CSI001      0      0      0 1.172663e-04 0.000000e+00      0
## CSI012      0      0      0 1.724971e-05 0.000000e+00      0
## CSI022      0      0      0 0.000000e+00 0.000000e+00      0
## CSI044      0      0      0 0.000000e+00 0.000000e+00      0
## CSI055      0      0      0 6.454250e-05 0.000000e+00      0
## CSI065      0      0      0 0.000000e+00 0.000000e+00      0
## CSI076      0      0      0 0.000000e+00 0.000000e+00      0
##      0tu03298      0tu03299      0tu03300 0tu03301 0tu03302 0tu03303
## CSI001      0 0.0000000000 0.000000e+00      0      0      0
## CSI012      0 0.0000000000 0.000000e+00      0      0      0
## CSI022      0 0.0000000000 0.000000e+00      0      0      0
## CSI044      0 0.0000000000 0.000000e+00      0      0      0
## CSI055      0 0.001118737 0.000000e+00      0      0      0
## CSI065      0 0.0000000000 0.000000e+00      0      0      0
## CSI076      0 0.0000000000 2.890675e-05      0      0      0
##      0tu03304 0tu03305 0tu03306      0tu03307 0tu03308 0tu03309
## CSI001 0.000000e+00      0      0 0.000000e+00      0      0
## CSI012 0.000000e+00      0      0 0.000000e+00      0      0
## CSI022 0.000000e+00      0      0 0.000000e+00      0      0
## CSI044 0.000000e+00      0      0 0.000000e+00      0      0
## CSI055 8.605667e-05      0      0 2.151417e-05      0      0
## CSI065 0.000000e+00      0      0 0.000000e+00      0      0
## CSI076 1.156270e-04      0      0 0.000000e+00      0      0
##      0tu03310 0tu03311 0tu03312      0tu03313      0tu03314 0tu03315
## CSI001 2.345326e-05      0      0 0.000000e+00 0.000000e+00      0
## CSI012 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI022 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI044 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI055 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI065 0.000000e+00      0      0 7.564010e-05 0.000000e+00      0
## CSI076 0.000000e+00      0      0 2.890675e-05 0.000000e+00      0
##      0tu03316 0tu03317 0tu03318 0tu03319 0tu03320 0tu03321      0tu03322
## CSI001      0      0      0      0      0      0 2.345326e-05
## CSI012      0      0      0      0      0      0 1.034982e-04

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## CSI022      0      0      0      0      0      0 0.000000e+00
## CSI044      0      0      0      0      0      0 0.000000e+00
## CSI055      0      0      0      0      0      0 0.000000e+00
## CSI065      0      0      0      0      0      0 0.000000e+00
## CSI076      0      0      0      0      0      0 0.000000e+00
##      0tu03323 0tu03324      0tu03325 0tu03326      0tu03327
## CSI001 0.000000e+00      0 0.0000000000      0 9.381303e-05
## CSI012 1.897468e-04      0 0.0000000000      0 6.899883e-05
## CSI022 0.000000e+00      0 0.0000000000      0 6.454667e-05
## CSI044 0.000000e+00      0 0.0000000000      0 0.000000e+00
## CSI055 0.000000e+00      0 0.0000000000      0 0.000000e+00
## CSI065 0.000000e+00      0 0.0000000000      0 0.000000e+00
## CSI076 0.000000e+00      0 0.0002890675      0 0.000000e+00
##      0tu03328 0tu03329 0tu03330 0tu03331 0tu03332 0tu03333 0tu03334
## CSI001 0.000000e+00      0      0      0      0      0      0
## CSI012 1.724971e-05      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 3.227125e-04      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0      0
##      0tu03335      0tu03336      0tu03337 0tu03338 0tu03339
## CSI001 0.000000e+00 0.000000e+00 0.000000e+00      0      0
## CSI012 0.000000e+00 5.174912e-05 6.899883e-05      0      0
## CSI022 0.000000e+00 3.872800e-04 0.000000e+00      0      0
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00      0      0
## CSI055 0.000000e+00 0.000000e+00 0.000000e+00      0      0
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00      0      0
## CSI076 0.000000e+00 0.000000e+00 0.000000e+00      0      0
##      0tu03340 0tu03341 0tu03342      0tu03343      0tu03344 0tu03345
## CSI001 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI012 1.724971e-05      0      0 0.000000e+00 3.449941e-05      0
## CSI022 1.506089e-04      0      0 0.000000e+00 0.000000e+00      0
## CSI044 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI055 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI065 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI076 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
##      0tu03346 0tu03347      0tu03348 0tu03349 0tu03350 0tu03351
## CSI001      0      0 0.000000e+00      0      0      0
## CSI012      0      0 0.000000e+00      0      0      0
## CSI022      0      0 0.000000e+00      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0
## CSI055      0      0 0.000000e+00      0      0      0
## CSI065      0      0 0.000000e+00      0      0      0
## CSI076      0      0 0.000000e+00      0      0      0
##      0tu03352 0tu03353 0tu03354 0tu03355 0tu03356      0tu03357
## CSI001 0.000000e+00      0      0      0      0 0.0000000000
## CSI012 0.000000e+00      0      0      0      0 0.0000000000
## CSI022 0.000000e+00      0      0      0      0 0.0000000000
## CSI044 0.000000e+00      0      0      0      0 0.0000000000
## CSI055 3.011983e-04      0      0      0      0 0.0000000000
## CSI065 0.000000e+00      0      0      0      0 0.0003025604
## CSI076 0.000000e+00      0      0      0      0 0.0003179742
##      0tu03358 0tu03359      0tu03360 0tu03361      0tu03362      0tu03363

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##	CSI001	0	0 0.000000e+00	0 0.000000e+00	0.000000e+00		
##	CSI012	0	0 0.000000e+00	0 0.000000e+00	0.000000e+00		
##	CSI022	0	0 0.000000e+00	0 6.454667e-05	0.000000e+00		
##	CSI044	0	0 0.000000e+00	0 0.000000e+00	0.000000e+00		
##	CSI055	0	0 0.000000e+00	0 0.000000e+00	2.151417e-05		
##	CSI065	0	0 0.000000e+00	0 0.000000e+00	0.000000e+00		
##	CSI076	0	0 2.890675e-05	0 0.000000e+00	5.781349e-05		
##		0tu03364	0tu03365	0tu03366	0tu03367	0tu03368	0tu03369 0tu03370
##	CSI001	0	0 0.000000e+00	0	0	0	0
##	CSI012	0	0 0.000000e+00	0	0	0	0
##	CSI022	0	0 2.151556e-05	0	0	0	0
##	CSI044	0	0 0.000000e+00	0	0	0	0
##	CSI055	0	0 0.000000e+00	0	0	0	0
##	CSI065	0	0 0.000000e+00	0	0	0	0
##	CSI076	0	0 0.000000e+00	0	0	0	0
##		0tu03371	0tu03372	0tu03373	0tu03374	0tu03375	0tu03376
##	CSI001	0.0000000000	0.000000e+00	0 4.690652e-05	0	0	0
##	CSI012	0.0000000000	0.000000e+00	0 0.000000e+00	0	0	0
##	CSI022	0.0000000000	0.000000e+00	0 0.000000e+00	0	0	0
##	CSI044	0.0000000000	0.000000e+00	0 0.000000e+00	0	0	0
##	CSI055	0.0000000000	0.000000e+00	0 0.000000e+00	0	0	0
##	CSI065	0.0000000000	0.000000e+00	0 0.000000e+00	0	0	0
##	CSI076	0.0000000000	0.000000e+00	0 0.000000e+00	0	0	0
##		0tu03377	0tu03378	0tu03379	0tu03380	0tu03381	0tu03382
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI012	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI055	0.000000e+00	2.151417e-05	0	0	0	0
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI076	3.468810e-04	0.000000e+00	0	0	0	0
##		0tu03383	0tu03384	0tu03385	0tu03386	0tu03387	0tu03388
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI012	0.000000e+00	1.724971e-05	0	0	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI055	0.000000e+00	2.151417e-05	0	0	0	0
##	CSI065	7.564010e-05	0.000000e+00	0	0	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu03389	0tu03390	0tu03391	0tu03392	0tu03393	0tu03394
##	CSI001	0 0.0000000000	0 0.000000e+00	0	0	0	0
##	CSI012	0 0.0000000000	0 1.724971e-05	0	0	0	0
##	CSI022	0 0.0000000000	0 0.000000e+00	0	0	0	0
##	CSI044	0 0.0000000000	0 0.000000e+00	0	0	0	0
##	CSI055	0 0.0000000000	0 6.454250e-05	0	0	0	0
##	CSI065	0 0.0000000000	0 0.000000e+00	0	0	0	0
##	CSI076	0 0.0000000000	0 0.000000e+00	0	0	0	0
##		0tu03395	0tu03396	0tu03397	0tu03398	0tu03399	0tu03400
##	CSI001	0 0.000000e+00	0 0.000000e+00	0.0000000000	0	0	0
##	CSI012	0 0.000000e+00	0 0.000000e+00	0.0000000000	0	0	0
##	CSI022	0 0.000000e+00	0 0.000000e+00	0.0000000000	0	0	0
##	CSI044	0 0.000000e+00	0 0.000000e+00	0.0000000000	0	0	0
##	CSI055	0 6.454250e-05	0 0.000000e+00	0.0001936275	0	0	0
##	CSI065	0 3.782005e-05	0 0.000000e+00	0.0000000000	0	0	0

##	CSI076	0	2.890675e-05	0	0.000000e+00	0.0000000000	0
##		0tu03401	0tu03402	0tu03403	0tu03404	0tu03405	0tu03406
##	CSI001	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI012	0	8.624853e-05	0.000000e+00	1.207479e-04	0	0
##	CSI022	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI044	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI055	0	4.302833e-05	0.000000e+00	0.000000e+00	0	0
##	CSI065	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI076	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##		0tu03407	0tu03408	0tu03409	0tu03410	0tu03411	0tu03412
##	CSI001	0	0	0	0	0	2.345326e-05
##	CSI012	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0.000000e+00
##		0tu03414	0tu03415	0tu03416	0tu03417	0tu03418	0tu03419
##	CSI001	0	0	0	0	0	4.690652e-05
##	CSI012	0	0	0	0	0	8.624853e-05
##	CSI022	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0.000000e+00
##		0tu03421	0tu03422	0tu03423	0tu03424	0tu03425	0tu03426
##	CSI001	0	0.00000000	0.000000e+00	0	0	0.000000e+00
##	CSI012	0	0.00000000	0.000000e+00	0	0	1.724971e-05
##	CSI022	0	0.00000000	0.000000e+00	0	0	0.000000e+00
##	CSI044	0	0.00000000	0.000000e+00	0	0	0.000000e+00
##	CSI055	0	0.00051634	0.000000e+00	0	0	0.000000e+00
##	CSI065	0	0.00000000	0.000000e+00	0	0	0.000000e+00
##	CSI076	0	0.00000000	0.000000e+00	0	0	0.000000e+00
##		0tu03427	0tu03428	0tu03429	0tu03430	0tu03431	0tu03432
##	CSI001	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	1.724971e-05
##	CSI022	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	1.182942e-04
##	CSI055	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	2.890675e-05
##		0tu03433	0tu03434	0tu03435	0tu03436	0tu03437	
##	CSI001	6.332380e-04	0.000000e+00	0.000000e+00	0	0	
##	CSI012	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI055	0.000000e+00	4.948258e-04	0.000000e+00	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI076	0.000000e+00	3.179742e-04	5.781349e-05	0	0	
##		0tu03438	0tu03439	0tu03440	0tu03441	0tu03442	0tu03443
##	CSI001	2.345326e-05	0	0	0.000000e+00	0	0.000000e+00
##	CSI012	6.899883e-05	0	0	1.724971e-05	0	3.449941e-05
##	CSI022	2.151556e-05	0	0	0.000000e+00	0	0.000000e+00
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	1.971570e-05

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## CSI055 0.000000e+00      0      0 8.605667e-05      0 1.721133e-04
## CSI065 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI076 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
##      0tu03444 0tu03445      0tu03446 0tu03447 0tu03448 0tu03449
## CSI001 0.0000000000      0 0.000000e+00      0      0      0
## CSI012 0.0000000000      0 0.000000e+00      0      0      0
## CSI022 0.0000000000      0 8.606222e-05      0      0      0
## CSI044 0.0000000000      0 0.000000e+00      0      0      0
## CSI055 0.0002366558      0 0.000000e+00      0      0      0
## CSI065 0.0000000000      0 0.000000e+00      0      0      0
## CSI076 0.0000000000      0 2.890675e-05      0      0      0
##      0tu03450 0tu03451 0tu03452 0tu03453      0tu03454 0tu03455 0tu03456
## CSI001      0      0      0      0 0.000000e+00      0      0
## CSI012      0      0      0      0 0.000000e+00      0      0
## CSI022      0      0      0      0 6.454667e-05      0      0
## CSI044      0      0      0      0 0.000000e+00      0      0
## CSI055      0      0      0      0 0.000000e+00      0      0
## CSI065      0      0      0      0 0.000000e+00      0      0
## CSI076      0      0      0      0 0.000000e+00      0      0
##      0tu03457 0tu03458      0tu03459 0tu03460      0tu03461 0tu03462
## CSI001      0      0 2.345326e-05      0 0.000000e+00      0
## CSI012      0      0 0.000000e+00      0 0.000000e+00      0
## CSI022      0      0 0.000000e+00      0 0.000000e+00      0
## CSI044      0      0 0.000000e+00      0 0.000000e+00      0
## CSI055      0      0 0.000000e+00      0 2.151417e-05      0
## CSI065      0      0 0.000000e+00      0 0.000000e+00      0
## CSI076      0      0 5.781349e-05      0 0.000000e+00      0
##      0tu03463 0tu03464      0tu03465 0tu03466      0tu03467 0tu03468
## CSI001      0      0 0.000000e+00      0 0.000000e+00      0
## CSI012      0      0 0.000000e+00      0 0.000000e+00      0
## CSI022      0      0 0.000000e+00      0 2.151556e-05      0
## CSI044      0      0 0.000000e+00      0 0.000000e+00      0
## CSI055      0      0 0.000000e+00      0 0.000000e+00      0
## CSI065      0      0 0.000000e+00      0 0.000000e+00      0
## CSI076      0      0 0.000000e+00      0 0.000000e+00      0
##      0tu03469      0tu03470 0tu03471 0tu03472 0tu03473 0tu03474
## CSI001      0 7.035977e-05      0      0      0      0
## CSI012      0 8.624853e-05      0      0      0      0
## CSI022      0 4.303111e-05      0      0      0      0
## CSI044      0 0.000000e+00      0      0      0      0
## CSI055      0 0.000000e+00      0      0      0      0
## CSI065      0 0.000000e+00      0      0      0      0
## CSI076      0 0.000000e+00      0      0      0      0
##      0tu03475 0tu03476 0tu03477 0tu03478      0tu03479 0tu03480
## CSI001 4.690652e-05      0      0      0 0.000000e+00      0
## CSI012 0.000000e+00      0      0      0 1.724971e-05      0
## CSI022 0.000000e+00      0      0      0 0.000000e+00      0
## CSI044 0.000000e+00      0      0      0 0.000000e+00      0
## CSI055 0.000000e+00      0      0      0 4.302833e-04      0
## CSI065 0.000000e+00      0      0      0 0.000000e+00      0
## CSI076 8.672024e-05      0      0      0 0.000000e+00      0
##      0tu03481      0tu03482 0tu03483      0tu03484      0tu03485
## CSI001 0.000000e+00 0.000000e+00      0 2.345326e-05 0.000000e+00
## CSI012 0.000000e+00 0.000000e+00      0 0.000000e+00 6.899883e-05

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## CSI022 0.000000e+00 0.000000e+00      0 6.454667e-05 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00 3.782005e-05      0 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
##      0tu03486 0tu03487 0tu03488      0tu03489      0tu03490
## CSI001 2.345326e-05      0      0 0.000000e+00 2.345326e-05
## CSI012 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI022 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00      0      0 0.000000e+00 0.000000e+00
##      0tu03491      0tu03492 0tu03493 0tu03494      0tu03495
## CSI001 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI012 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI022 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI055 1.505992e-04 6.454250e-05      0      0 2.151417e-05
## CSI065 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI076 5.781349e-05 0.000000e+00      0      0 0.000000e+00
##      0tu03496 0tu03497      0tu03498 0tu03499 0tu03500 0tu03501
## CSI001 0.0000000000      0 0.000000e+00      0      0      0
## CSI012 0.0000000000      0 0.000000e+00      0      0      0
## CSI022 0.0000000000      0 0.000000e+00      0      0      0
## CSI044 0.0000000000      0 0.000000e+00      0      0      0
## CSI055 0.0002151417      0 1.936275e-04      0      0      0
## CSI065 0.0000000000      0 0.000000e+00      0      0      0
## CSI076 0.0001445337      0 2.023472e-04      0      0      0
##      0tu03502 0tu03503 0tu03504 0tu03505 0tu03506      0tu03507
## CSI001 0.000000e+00      0      0      0      0 0.000000e+00
## CSI012 1.724971e-05      0      0      0      0 0.000000e+00
## CSI022 0.000000e+00      0      0      0      0 0.000000e+00
## CSI044 0.000000e+00      0      0      0      0 0.000000e+00
## CSI055 6.023967e-04      0      0      0      0 0.000000e+00
## CSI065 0.000000e+00      0      0      0      0 0.000000e+00
## CSI076 2.890675e-05      0      0      0      0 5.781349e-05
##      0tu03508      0tu03509 0tu03510 0tu03511 0tu03512      0tu03513
## CSI001      0 0.00000e+00      0      0      0 2.345326e-05
## CSI012      0 0.00000e+00      0      0      0 0.000000e+00
## CSI022      0 0.00000e+00      0      0      0 4.303111e-05
## CSI044      0 1.97157e-05      0      0      0 0.000000e+00
## CSI055      0 0.00000e+00      0      0      0 2.151417e-05
## CSI065      0 0.00000e+00      0      0      0 0.000000e+00
## CSI076      0 0.00000e+00      0      0      0 0.000000e+00
##      0tu03514      0tu03515 0tu03516 0tu03517 0tu03518 0tu03519 0tu03520
## CSI001      0 0.0000000000      0      0      0      0      0
## CSI012      0 0.0000000000      0      0      0      0      0
## CSI022      0 0.0000000000      0      0      0      0      0
## CSI044      0 0.0000000000      0      0      0      0      0
## CSI055      0 0.0009251092      0      0      0      0      0
## CSI065      0 0.0000000000      0      0      0      0      0
## CSI076      0 0.0000000000      0      0      0      0      0
##      0tu03521 0tu03522      0tu03523 0tu03524 0tu03525      0tu03526

```

##	CSI001	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI012	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI022	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI044	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI055	1.290850e-04	0	0.000000e+00	0	0.000000e+00
##	CSI065	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI076	0.000000e+00	0	2.890675e-05	0	2.890675e-05
##		0tu03527	0tu03528	0tu03529	0tu03530	0tu03531 0tu03532
##	CSI001	4.690652e-05	0	0	0 0.000000e+00	0.000000e+00
##	CSI012	0.000000e+00	0	0	0 0.000000e+00	0.000000e+00
##	CSI022	0.000000e+00	0	0	0 0.000000e+00	0.000000e+00
##	CSI044	0.000000e+00	0	0	0 1.971570e-05	0.000000e+00
##	CSI055	0.000000e+00	0	0	0 0.000000e+00	0.000000e+00
##	CSI065	0.000000e+00	0	0	0 0.000000e+00	0.000000e+00
##	CSI076	1.156270e-04	0	0	0 0.000000e+00	0.000000e+00
##		0tu03533	0tu03534	0tu03535	0tu03536	0tu03537 0tu03538
##	CSI001	0.0000000000	0	0 0.000727051	0	0.000000e+00
##	CSI012	0.0002069965	0	0 0.0000000000	0	0.000000e+00
##	CSI022	0.0001721244	0	0 0.0000000000	0	0.000000e+00
##	CSI044	0.0000000000	0	0 0.0000000000	0	0.000000e+00
##	CSI055	0.0000000000	0	0 0.0000000000	0	0.000000e+00
##	CSI065	0.0000000000	0	0 0.0000000000	0	0.000000e+00
##	CSI076	0.0000000000	0	0 0.0000000000	0	0.000000e+00
##		0tu03539	0tu03540	0tu03541	0tu03542	0tu03543 0tu03544
##	CSI001	0.000000e+00	0	0 7.035977e-05	4.690652e-05	0
##	CSI012	0.000000e+00	0	0 1.724971e-05	3.449941e-05	0
##	CSI022	0.000000e+00	0	0 0.000000e+00	6.454667e-05	0
##	CSI044	0.000000e+00	0	0 0.000000e+00	0.000000e+00	0
##	CSI055	4.302833e-05	0	0 0.000000e+00	0.000000e+00	0
##	CSI065	0.000000e+00	0	0 3.782005e-05	0.000000e+00	0
##	CSI076	2.890675e-05	0	0 0.000000e+00	2.890675e-05	0
##		0tu03545	0tu03546	0tu03547	0tu03548	0tu03549 0tu03550
##	CSI001	0.000000e+00	0	0.000000e+00	0 0.000000e+00	0
##	CSI012	0.000000e+00	0	0.000000e+00	0 0.000000e+00	0
##	CSI022	0.000000e+00	0	0.000000e+00	0 0.000000e+00	0
##	CSI044	0.000000e+00	0	0.000000e+00	0 0.000000e+00	0
##	CSI055	0.000000e+00	0	0.000000e+00	0 2.151417e-05	0
##	CSI065	3.782005e-05	0	0.000000e+00	0 0.000000e+00	0
##	CSI076	0.000000e+00	0	2.023472e-04	0 0.000000e+00	0
##		0tu03551	0tu03552	0tu03553	0tu03554	0tu03555 0tu03556
##	CSI001	0 0.0000000000	0	0 0.0000000000	0	0
##	CSI012	0 0.0006727386	0	0 0.0002759953	0	0
##	CSI022	0 0.0000000000	0	0 0.0000000000	0	0
##	CSI044	0 0.0000000000	0	0 0.0000000000	0	0
##	CSI055	0 0.0000000000	0	0 0.0000000000	0	0
##	CSI065	0 0.0000000000	0	0 0.0000000000	0	0
##	CSI076	0 0.0000000000	0	0 0.0000000000	0	0
##		0tu03557	0tu03558	0tu03559	0tu03560	0tu03561 0tu03562
##	CSI001	0 0.000000e+00	0.000000e+00	0 0.0000000000	0	0
##	CSI012	0 1.724971e-05	1.724971e-05	0 0.0001207479	0	0
##	CSI022	0 1.936400e-04	0.000000e+00	0 0.0000000000	0	0
##	CSI044	0 0.000000e+00	1.971570e-04	0 0.0000000000	0	0
##	CSI055	0 0.000000e+00	0.000000e+00	0 0.0000000000	0	0
##	CSI065	0 0.000000e+00	0.000000e+00	0 0.0000000000	0	0

```

## CSI076      0 0.000000e+00 0.000000e+00      0 0.0000000000      0
##      0tu03563 0tu03564 0tu03565 0tu03566 0tu03567 0tu03568      0tu03569
## CSI001      0      0      0      0      0      0 0.000000e+00
## CSI012      0      0      0      0      0      0 0.000000e+00
## CSI022      0      0      0      0      0      0 0.000000e+00
## CSI044      0      0      0      0      0      0 0.000000e+00
## CSI055      0      0      0      0      0      0 6.454250e-05
## CSI065      0      0      0      0      0      0 0.000000e+00
## CSI076      0      0      0      0      0      0 5.781349e-05
##      0tu03570 0tu03571      0tu03572      0tu03573 0tu03574 0tu03575
## CSI001 4.690652e-05      0 0.000000e+00 0.0000000000      0      0
## CSI012 0.000000e+00      0 0.000000e+00 0.0000000000      0      0
## CSI022 0.000000e+00      0 0.000000e+00 0.0000000000      0      0
## CSI044 0.000000e+00      0 1.182942e-04 0.0000000000      0      0
## CSI055 0.000000e+00      0 0.000000e+00 0.0002366558      0      0
## CSI065 0.000000e+00      0 0.000000e+00 0.0000000000      0      0
## CSI076 8.672024e-05      0 2.890675e-05 0.0000000000      0      0
##      0tu03576 0tu03577 0tu03578 0tu03579      0tu03580      0tu03581
## CSI001      0      0      0      0 0.000000e+00 0.000000e+00
## CSI012      0      0      0      0 0.000000e+00 0.000000e+00
## CSI022      0      0      0      0 0.000000e+00 0.000000e+00
## CSI044      0      0      0      0 0.000000e+00 0.000000e+00
## CSI055      0      0      0      0 0.000000e+00 0.000000e+00
## CSI065      0      0      0      0 0.000000e+00 0.000000e+00
## CSI076      0      0      0      0 2.890675e-05 0.000000e+00
##      0tu03582      0tu03583 0tu03584 0tu03585      0tu03586 0tu03587
## CSI001 2.345326e-05 0.000000e+00      0      0 2.345326e-05      0
## CSI012 6.899883e-05 1.724971e-05      0      0 1.724971e-05      0
## CSI022 4.303111e-05 0.000000e+00      0      0 0.000000e+00      0
## CSI044 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI055 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI065 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI076 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
##      0tu03588 0tu03589 0tu03590      0tu03591 0tu03592 0tu03593
## CSI001 0.000000e+00      0      0 0.000000e+00      0      0
## CSI012 0.000000e+00      0      0 0.000000e+00      0      0
## CSI022 0.000000e+00      0      0 0.000000e+00      0      0
## CSI044 0.000000e+00      0      0 0.000000e+00      0      0
## CSI055 0.000000e+00      0      0 8.820809e-04      0      0
## CSI065 0.000000e+00      0      0 0.000000e+00      0      0
## CSI076 0.000000e+00      0      0 0.000000e+00      0      0
##      0tu03594 0tu03595 0tu03596 0tu03597      0tu03598      0tu03599
## CSI001      0      0      0      0 0.000000e+00 0.0000000000
## CSI012      0      0      0      0 0.000000e+00 0.0000000000
## CSI022      0      0      0      0 0.000000e+00 0.0000000000
## CSI044      0      0      0      0 0.000000e+00 0.0000000000
## CSI055      0      0      0      0 0.000000e+00 0.0000000000
## CSI065      0      0      0      0 0.000000e+00 0.0000000000
## CSI076      0      0      0      0 2.890675e-05 0.0000000000
##      0tu03600 0tu03601 0tu03602 0tu03603 0tu03604      0tu03605 0tu03606
## CSI001      0      0      0      0      0 0.000000e+00      0
## CSI012      0      0      0      0      0 1.724971e-05      0
## CSI022      0      0      0      0      0 0.000000e+00      0
## CSI044      0      0      0      0      0 0.000000e+00      0

```



##	CSI055	0	0	0	0	0 0.000000e+00	0
##	CSI065	0	0	0	0	0 0.000000e+00	0
##	CSI076	0	0	0	0	0 5.781349e-05	0
##	0tu03607	0tu03608	0tu03609	0tu03610	0tu03611	0tu03612	
##	CSI001	0 4.690652e-05	0	0	0 0.000000e+00	2.345326e-05	
##	CSI012	0 0.000000e+00	0	0	0 0.000000e+00	6.899883e-05	
##	CSI022	0 2.151556e-05	0	0	0 0.000000e+00	0.000000e+00	
##	CSI044	0 0.000000e+00	0	0	0 0.000000e+00	0.000000e+00	
##	CSI055	0 0.000000e+00	0	0	2.151417e-05	2.151417e-05	
##	CSI065	0 0.000000e+00	0	0	0 0.000000e+00	0.000000e+00	
##	CSI076	0 0.000000e+00	0	0	0 0.000000e+00	0.000000e+00	
##	0tu03613	0tu03614	0tu03615	0tu03616	0tu03617	0tu03618	
##	CSI001	0	0 0.000000e+00	0	0	0 0.000000e+00	
##	CSI012	0	0 0.000000e+00	0	0	5.174912e-05	
##	CSI022	0	0 0.000000e+00	0	0	0 0.000000e+00	
##	CSI044	0	0 0.000000e+00	0	0	0 0.000000e+00	
##	CSI055	0	0 0.000000e+00	0	0	0 0.000000e+00	
##	CSI065	0	0 0.000000e+00	0	0	0 0.000000e+00	
##	CSI076	0	0 0.000000e+00	0	0	0 0.000000e+00	
##	0tu03619	0tu03620	0tu03621	0tu03622	0tu03623	0tu03624	
##	CSI001	0 0.0000000000	0.000000e+00	0	0	0	
##	CSI012	0 0.0000000000	0.000000e+00	0	0	0	
##	CSI022	0 0.0000000000	0.000000e+00	0	0	0	
##	CSI044	0 0.0000000000	0.000000e+00	0	0	0	
##	CSI055	0 0.0000645425	4.302833e-04	0	0	0	
##	CSI065	0 0.0000000000	0.000000e+00	0	0	0	
##	CSI076	0 0.0000000000	5.781349e-05	0	0	0	
##	0tu03625	0tu03626	0tu03627	0tu03628	0tu03629	0tu03630	
##	CSI001	0 0.000000e+00	0.0000000000	0.000000e+00	0	0	
##	CSI012	0 0.000000e+00	0.0000000000	1.724971e-05	0	0	
##	CSI022	0 0.000000e+00	0.0000000000	0.000000e+00	0	0	
##	CSI044	0 0.000000e+00	0.0000000000	0.000000e+00	0	0	
##	CSI055	0 2.796842e-04	0.0000000000	0.000000e+00	0	0	
##	CSI065	0 0.000000e+00	0.0000000000	0.000000e+00	0	0	
##	CSI076	0 2.890675e-05	0.0006648552	0.000000e+00	0	0	
##	0tu03631	0tu03632	0tu03633	0tu03634	0tu03635	0tu03636	
##	CSI001	0 0.000000e+00	0	0	0	0	
##	CSI012	0 0.000000e+00	0	0	0	0	
##	CSI022	0 0.000000e+00	0	0	0	0	
##	CSI044	0 0.000000e+00	0	0	0	0	
##	CSI055	0 0.000000e+00	0	0	0	0	
##	CSI065	0 0.000000e+00	0	0	0	0	
##	CSI076	0 3.179742e-04	0	0	0	0	
##	0tu03637	0tu03638	0tu03639	0tu03640	0tu03641	0tu03642	
##	CSI001	0.000000e+00	0.000000e+00	0 0.0000000000	0	0	
##	CSI012	0.000000e+00	0.000000e+00	0 0.0000000000	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0 0.0000000000	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0 0.0000000000	0	0	
##	CSI055	0.000000e+00	0.000000e+00	0 0.0000000000	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0 0.0000000000	0	0	
##	CSI076	5.781349e-05	2.890675e-05	0 0.0001734405	0	0	
##	0tu03643	0tu03644	0tu03645	0tu03646	0tu03647	0tu03648	
##	CSI001	0 0.000000e+00	0 2.345326e-05	0	0 0.000000e+00		
##	CSI012	0 6.899883e-05	0 3.449941e-05	0	0 6.899883e-05		

##	CSI022	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI044	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI055	0	2.151417e-05	0	0.000000e+00	0	0.000000e+00
##	CSI065	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI076	0	5.781349e-05	0	0.000000e+00	0	0.000000e+00
##		0tu03649	0tu03650	0tu03651	0tu03652	0tu03653	
##	CSI001	2.345326e-05	0.000000e+00	2.345326e-05	0	0.00000000	
##	CSI012	0.000000e+00	0.000000e+00	0.000000e+00	0	0.00000000	
##	CSI022	4.303111e-05	0.000000e+00	2.151556e-05	0	0.00000000	
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0.00000000	
##	CSI055	0.000000e+00	0.000000e+00	0.000000e+00	0	0.00025817	
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0	0.00000000	
##	CSI076	0.000000e+00	0.000000e+00	0.000000e+00	0	0.00000000	
##		0tu03654	0tu03655	0tu03656	0tu03657	0tu03658	
##	CSI001	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI012	0.000000e+00	8.624853e-05	0	8.624853e-05	3.449941e-05	
##	CSI022	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI044	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI055	1.721133e-04	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI065	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI076	1.445337e-04	0.000000e+00	0	0.000000e+00	0.000000e+00	
##		0tu03659	0tu03660	0tu03661	0tu03662	0tu03663	0tu03664
##	CSI001	0	0	0.000000e+00	0	4.690652e-05	0
##	CSI012	0	0	3.449941e-05	0	1.552474e-04	0
##	CSI022	0	0	0.000000e+00	0	2.151556e-05	0
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI076	0	0	0.000000e+00	0	0.000000e+00	0
##		0tu03665	0tu03666	0tu03667	0tu03668	0tu03669	0tu03670 0tu03671
##	CSI001	0	0	0	0	0	0.000000e+00 0
##	CSI012	0	0	0	0	0	1.724971e-05 0
##	CSI022	0	0	0	0	0	0.000000e+00 0
##	CSI044	0	0	0	0	0	0.000000e+00 0
##	CSI055	0	0	0	0	0	0.000000e+00 0
##	CSI065	0	0	0	0	0	0.000000e+00 0
##	CSI076	0	0	0	0	0	0.000000e+00 0
##		0tu03672	0tu03673	0tu03674	0tu03675	0tu03676	0tu03677
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI012	1.724971e-05	0.000000e+00	0	0	0	0.000000e+00
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	2.151417e-05
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##		0tu03678	0tu03679	0tu03680	0tu03681	0tu03682	0tu03683 0tu03684
##	CSI001	0	0.000000e+00	0	0	0	0 0
##	CSI012	0	0.000000e+00	0	0	0	0 0
##	CSI022	0	0.000000e+00	0	0	0	0 0
##	CSI044	0	0.000000e+00	0	0	0	0 0
##	CSI055	0	2.151417e-05	0	0	0	0 0
##	CSI065	0	0.000000e+00	0	0	0	0 0
##	CSI076	0	0.000000e+00	0	0	0	0 0
##		0tu03685	0tu03686	0tu03687	0tu03688	0tu03689	0tu03690 0tu03691

##	CSI001	0	0	0	0.0000000000	0	0	0
##	CSI012	0	0	0	0.0000000000	0	0	0
##	CSI022	0	0	0	0.0000000000	0	0	0
##	CSI044	0	0	0	0.0000000000	0	0	0
##	CSI055	0	0	0	0.0000000000	0	0	0
##	CSI065	0	0	0	0.0005673008	0	0	0
##	CSI076	0	0	0	0.0000000000	0	0	0
##		0tu03692	0tu03693	0tu03694	0tu03695	0tu03696	0tu03697	
##	CSI001	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI012	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI022	0	0.000000e+00	4.303111e-05	0	0	0	
##	CSI044	0	0.000000e+00	1.577256e-04	0	0	0	
##	CSI055	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI065	0	0.000000e+00	3.782005e-05	0	0	0	
##	CSI076	0	0.000000e+00	0.000000e+00	0	0	0	
##		0tu03698	0tu03699	0tu03700	0tu03701	0tu03702	0tu03703	
##	CSI001	0	0	0	2.345326e-05	0.000000e+00	0.000000e+00	
##	CSI012	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI022	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI055	0	0	0	0.000000e+00	2.151417e-05	0.000000e+00	
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI076	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##		0tu03704	0tu03705	0tu03706	0tu03707	0tu03708	0tu03709	
##	CSI001	2.345326e-05	0	0	0	0	0.000000e+00	
##	CSI012	3.449941e-05	0	0	0	0	0.000000e+00	
##	CSI022	2.151556e-05	0	0	0	0	0.000000e+00	
##	CSI044	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI055	0.000000e+00	0	0	0	0	2.366558e-04	
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI076	0.000000e+00	0	0	0	0	1.734405e-04	
##		0tu03710	0tu03711	0tu03712	0tu03713	0tu03714		
##	CSI001	9.381303e-05	0.000000e+00	0	0.000000e+00	0.000000e+00		
##	CSI012	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00		
##	CSI022	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00		
##	CSI044	3.943140e-05	0.000000e+00	0	0.000000e+00	0.000000e+00		
##	CSI055	0.000000e+00	2.151417e-05	0	0.000000e+00	0.000000e+00		
##	CSI065	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00		
##	CSI076	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00		
##		0tu03715	0tu03716	0tu03717	0tu03718	0tu03719	0tu03720	0tu03721
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	3.782005e-04	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu03722	0tu03723	0tu03724	0tu03725	0tu03726	0tu03727	0tu03728
##	CSI001	0	0	0	0	0	2.345326e-05	0
##	CSI012	0	0	0	0	0	1.034982e-04	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0

##	CSI076	0	0	0	0	0	2.312540e-04	0
##		0tu03729	0tu03730	0tu03731	0tu03732	0tu03733		
##	CSI001	0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00			0
##	CSI012	0.000000e+00	0.000000e+00	0.0004312427	0.000000e+00			0
##	CSI022	0.000000e+00	2.151556e-05	0.0000000000	0.000000e+00			0
##	CSI044	0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00			0
##	CSI055	2.151417e-05	0.000000e+00	0.0000000000	0.000000e+00			0
##	CSI065	0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00			0
##	CSI076	0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00			0
##		0tu03734	0tu03735	0tu03736	0tu03737	0tu03738	0tu03739	
##	CSI001	0	0	0.000000e+00	0.000000e+00	0.000000e+00		0
##	CSI012	0	0	0.000000e+00	0.000000e+00	0.000000e+00		0
##	CSI022	0	0	2.151556e-05	0.000000e+00	0.000000e+00		0
##	CSI044	0	0	0.000000e+00	0.000000e+00	0.000000e+00		0
##	CSI055	0	0	0.000000e+00	2.151417e-05	0.000000e+00		0
##	CSI065	0	0	0.000000e+00	9.455013e-04	0.000000e+00		0
##	CSI076	0	0	0.000000e+00	0.000000e+00	0.000000e+00		0
##		0tu03740	0tu03741	0tu03742	0tu03743	0tu03744	0tu03745	
##	CSI001	2.345326e-05	0	0	4.690652e-05	0	2.345326e-05	
##	CSI012	5.174912e-05	0	0	0.000000e+00	0	0.000000e+00	
##	CSI022	0.000000e+00	0	0	4.303111e-05	0	0.000000e+00	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI055	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##		0tu03746	0tu03747	0tu03748	0tu03749	0tu03750	0tu03751	0tu03752
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu03753	0tu03754	0tu03755	0tu03756	0tu03757	0tu03758	
##	CSI001	0	0.000000e+00	7.035977e-05	0	2.345326e-05		0
##	CSI012	0	0.000000e+00	1.379977e-04	0	3.449941e-05		0
##	CSI022	0	0.000000e+00	1.290933e-04	0	4.303111e-05		0
##	CSI044	0	0.000000e+00	0.000000e+00	0	0.000000e+00		0
##	CSI055	0	1.290850e-04	0.000000e+00	0	0.000000e+00		0
##	CSI065	0	0.000000e+00	0.000000e+00	0	0.000000e+00		0
##	CSI076	0	0.000000e+00	0.000000e+00	0	0.000000e+00		0
##		0tu03759	0tu03760	0tu03761	0tu03762	0tu03763	0tu03764	0tu03765
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu03766	0tu03767	0tu03768	0tu03769	0tu03770	0tu03771	
##	CSI001	0.000000e+00	0	0.000000e+00	0.000000e+00	0		0
##	CSI012	3.449941e-05	0	0.000000e+00	0.000000e+00	0		0
##	CSI022	0.000000e+00	0	0.000000e+00	0.000000e+00	0		0
##	CSI044	0.000000e+00	0	0.000000e+00	2.957355e-04	0		0

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## CSI055 0.000000e+00      0 0.000000e+00 2.151417e-05      0      0
## CSI065 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI076 0.000000e+00      0 5.781349e-05 0.000000e+00      0      0
##      0tu03772 0tu03773 0tu03774 0tu03775 0tu03776      0tu03777 0tu03778
## CSI001      0      0      0      0      0 0.000000e+00      0
## CSI012      0      0      0      0      0 0.000000e+00      0
## CSI022      0      0      0      0      0 0.000000e+00      0
## CSI044      0      0      0      0      0 0.000000e+00      0
## CSI055      0      0      0      0      0 0.000000e+00      0
## CSI065      0      0      0      0      0 0.000000e+00      0
## CSI076      0      0      0      0      0 0.000000e+00      0
##      0tu03779 0tu03780 0tu03781      0tu03782 0tu03783 0tu03784
## CSI001 0.000000e+00      0      0 2.345326e-05      0      0
## CSI012 0.000000e+00      0      0 0.000000e+00      0      0
## CSI022 0.000000e+00      0      0 0.000000e+00      0      0
## CSI044 0.000000e+00      0      0 0.000000e+00      0      0
## CSI055 0.000000e+00      0      0 0.000000e+00      0      0
## CSI065 0.000000e+00      0      0 0.000000e+00      0      0
## CSI076 0.000000e+00      0      0 0.000000e+00      0      0
##      0tu03785 0tu03786 0tu03787 0tu03788 0tu03789 0tu03790 0tu03791
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu03792 0tu03793 0tu03794      0tu03795      0tu03796 0tu03797
## CSI001 4.690652e-05      0      0 0.000000000 4.690652e-05      0
## CSI012 0.000000e+00      0      0 0.000000000 0.000000e+00      0
## CSI022 0.000000e+00      0      0 0.000000000 0.000000e+00      0
## CSI044 1.971570e-05      0      0 0.000000000 0.000000e+00      0
## CSI055 0.000000e+00      0      0 0.000387255 0.000000e+00      0
## CSI065 7.564010e-05      0      0 0.000000000 0.000000e+00      0
## CSI076 0.000000e+00      0      0 0.000000000 0.000000e+00      0
##      0tu03798      0tu03799 0tu03800 0tu03801 0tu03802      0tu03803
## CSI001      0 4.690652e-05      0      0      0 0.000000e+00
## CSI012      0 0.000000e+00      0      0      0 1.034982e-04
## CSI022      0 2.151556e-05      0      0      0 2.151556e-05
## CSI044      0 0.000000e+00      0      0      0 0.000000e+00
## CSI055      0 0.000000e+00      0      0      0 0.000000e+00
## CSI065      0 0.000000e+00      0      0      0 0.000000e+00
## CSI076      0 0.000000e+00      0      0      0 0.000000e+00
##      0tu03804      0tu03805 0tu03806      0tu03807      0tu03808
## CSI001 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI012 0.000000e+00 6.899883e-05      0 0.000000e+00 3.449941e-05
## CSI022 0.000000e+00 3.227333e-04      0 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI055 2.151417e-05 0.000000e+00      0 6.45425e-05 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
##      0tu03809 0tu03810 0tu03811 0tu03812 0tu03813 0tu03814 0tu03815
## CSI001 0.0000000000      0      0      0      0      0      0
## CSI012 0.0000000000      0      0      0      0      0      0

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## CSI022 0.0000000000      0      0      0      0      0      0
## CSI044 0.0000000000      0      0      0      0      0      0
## CSI055 0.0000000000      0      0      0      0      0      0
## CSI065 0.0000000000      0      0      0      0      0      0
## CSI076 0.0000000000      0      0      0      0      0      0
##      0tu03816      0tu03817 0tu03818 0tu03819      0tu03820 0tu03821
## CSI001      0 0.000000e+00      0      0 0.000000e+00      0
## CSI012      0 1.724971e-05      0      0 5.174912e-05      0
## CSI022      0 2.151556e-05      0      0 6.454667e-05      0
## CSI044      0 0.000000e+00      0      0 0.000000e+00      0
## CSI055      0 0.000000e+00      0      0 0.000000e+00      0
## CSI065      0 0.000000e+00      0      0 0.000000e+00      0
## CSI076      0 0.000000e+00      0      0 0.000000e+00      0
##      0tu03822      0tu03823      0tu03824      0tu03825      0tu03826
## CSI001      0 0.000000e+00 0.00000000000 0.0000000000 0.000000e+00
## CSI012      0 0.000000e+00 0.00000000000 0.0000000000 0.000000e+00
## CSI022      0 0.000000e+00 0.00000000000 0.0000000000 0.000000e+00
## CSI044      0 0.000000e+00 0.00000000000 0.0000000000 0.000000e+00
## CSI055      0 0.000000e+00 0.0002151417 0.0000000000 0.000000e+00
## CSI065      0 7.56401e-05 0.00000000000 0.0000000000 7.564010e-05
## CSI076      0 0.000000e+00 0.0001445337 0.0000000000 0.000000e+00
##      0tu03827 0tu03828 0tu03829 0tu03830 0tu03831 0tu03832      0tu03833
## CSI001      0      0      0      0      0      0 0.0000000000
## CSI012      0      0      0      0      0      0 0.0000000000
## CSI022      0      0      0      0      0      0 0.0000000000
## CSI044      0      0      0      0      0      0 0.0000000000
## CSI055      0      0      0      0      0      0 0.0000000000
## CSI065      0      0      0      0      0      0 0.0000000000
## CSI076      0      0      0      0      0      0 0.000115627
##      0tu03834      0tu03835      0tu03836 0tu03837      0tu03838
## CSI001      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI012      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI022      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI044      0 0.000000e+00 0.000000e+00      0 1.971570e-05
## CSI055      0 0.000000e+00 2.151417e-05      0 0.000000e+00
## CSI065      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI076      0 0.000000e+00 0.000000e+00      0 0.000000e+00
##      0tu03839      0tu03840      0tu03841      0tu03842      0tu03843
## CSI001 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000
## CSI012 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000
## CSI022 0.000000e+00 2.151556e-05 0.000000e+00 4.303111e-05 0.0000000000
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000
## CSI055 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.0001936275
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000
## CSI076 2.890675e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000
##      0tu03844 0tu03845      0tu03846 0tu03847      0tu03848 0tu03849
## CSI001 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI012 1.724971e-05      0 0.000000e+00      0 0.000000e+00      0
## CSI022 4.303111e-05      0 0.000000e+00      0 0.000000e+00      0
## CSI044 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI055 0.000000e+00      0 0.000000e+00      0 1.721133e-04      0
## CSI065 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI076 0.000000e+00      0 5.781349e-05      0 0.000000e+00      0
##      0tu03850 0tu03851      0tu03852 0tu03853      0tu03854      0tu03855

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##	CSI001	0	0 0.000000e+00	0 0.000000e+00	0.000000e+00		
##	CSI012	0	0 0.000000e+00	0 1.724971e-05	1.724971e-05		
##	CSI022	0	0 0.000000e+00	0 0.000000e+00	0.000000e+00		
##	CSI044	0	0 0.000000e+00	0 0.000000e+00	0.000000e+00		
##	CSI055	0	0 8.605667e-05	0 0.000000e+00	0.000000e+00		
##	CSI065	0	0 0.000000e+00	0 0.000000e+00	0.000000e+00		
##	CSI076	0	0 2.890675e-05	0 0.000000e+00	0.000000e+00		
##	0tu03856	0tu03857	0tu03858	0tu03859	0tu03860		
##	CSI001	0 0.0000000000	0 0.000000e+00	0.000000e+00			
##	CSI012	0 0.0000000000	0 0.000000e+00	0.000000e+00			
##	CSI022	0 0.0000000000	0 0.000000e+00	0.000000e+00			
##	CSI044	0 0.0001577256	0 0.000000e+00	0.000000e+00			
##	CSI055	0 0.0000000000	0 0.000000e+00	2.151417e-05			
##	CSI065	0 0.0000000000	0 0.000000e+00	0.000000e+00			
##	CSI076	0 0.0000000000	0 5.781349e-05	0.000000e+00			
##	0tu03861	0tu03862	0tu03863	0tu03864	0tu03865	0tu03866	0tu03867
##	CSI001	2.345326e-05	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##	0tu03868	0tu03869	0tu03870	0tu03871	0tu03872	0tu03873	0tu03874
##	CSI001	0	0	0	0	0	1.407195e-04
##	CSI012	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	6.454250e-05
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0.000000e+00
##	0tu03875	0tu03876	0tu03877	0tu03878	0tu03879	0tu03880	
##	CSI001	0.000000e+00	0	0	0 0.000000e+00	0	
##	CSI012	0.000000e+00	0	0	0 0.000000e+00	0	
##	CSI022	0.000000e+00	0	0	0 0.000000e+00	0	
##	CSI044	0.000000e+00	0	0	0 0.000000e+00	0	
##	CSI055	0.000000e+00	0	0	0 8.605667e-05	0	
##	CSI065	0.000000e+00	0	0	0 0.000000e+00	0	
##	CSI076	0.000000e+00	0	0	0 6.648552e-04	0	
##	0tu03881	0tu03882	0tu03883	0tu03884	0tu03885	0tu03886	0tu03887
##	CSI001	0	0	0	0 4.690652e-05	0	0
##	CSI012	0	0	0	0 0.000000e+00	0	0
##	CSI022	0	0	0	0 0.000000e+00	0	0
##	CSI044	0	0	0	0 0.000000e+00	0	0
##	CSI055	0	0	0	0 0.000000e+00	0	0
##	CSI065	0	0	0	0 0.000000e+00	0	0
##	CSI076	0	0	0	0 0.000000e+00	0	0
##	0tu03888	0tu03889	0tu03890	0tu03891	0tu03892	0tu03893	
##	CSI001	0 0.000000e+00	0 4.925184e-04	0	0	0	
##	CSI012	0 0.000000e+00	0 3.449941e-05	0	0	0	
##	CSI022	0 0.000000e+00	0 0.000000e+00	0	0	0	
##	CSI044	0 0.000000e+00	0 0.000000e+00	0	0	0	
##	CSI055	0 6.454250e-05	0 0.000000e+00	0	0	0	
##	CSI065	0 0.000000e+00	0 0.000000e+00	0	0	0	

## CSI076	0	5.781349e-05	0	0.000000e+00	0	0
##	0tu03894	0tu03895	0tu03896	0tu03897	0tu03898	0tu03899
## CSI001	0	0	0	0	0	0.000000e+00
## CSI012	0	0	0	0	0	6.899883e-05
## CSI022	0	0	0	0	0	2.151556e-05
## CSI044	0	0	0	0	0	0.000000e+00
## CSI055	0	0	0	0	0	2.151417e-05
## CSI065	0	0	0	0	0	0.000000e+00
## CSI076	0	0	0	0	0	0.000000e+00
##	0tu03900	0tu03901	0tu03902	0tu03903	0tu03904	0tu03905
## CSI001	0.000000e+00	0	1.407195e-04	0.000000e+00	0	0
## CSI012	0.000000e+00	0	6.899883e-05	0.000000e+00	0	0
## CSI022	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
## CSI044	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
## CSI055	0.000000e+00	0	6.454250e-05	2.151417e-05	0	0
## CSI065	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
## CSI076	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	0tu03906	0tu03907	0tu03908	0tu03909	0tu03910	
## CSI001	0	0.000000e+00	0.000000e+00	2.345326e-05	0	
## CSI012	0	1.724971e-05	0.000000e+00	6.899883e-05	0	
## CSI022	0	0.000000e+00	0.000000e+00	4.303111e-05	0	
## CSI044	0	0.000000e+00	0.000000e+00	0.000000e+00	0	
## CSI055	0	0.000000e+00	0.000000e+00	0.000000e+00	0	
## CSI065	0	0.000000e+00	0.000000e+00	0.000000e+00	0	
## CSI076	0	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	0tu03911	0tu03912	0tu03913	0tu03914	0tu03915	
## CSI001	0.0000000000	0.000000e+00	0	0.000000e+00	0.000000e+00	
## CSI012	0.0000000000	0.000000e+00	0	0.000000e+00	0.000000e+00	
## CSI022	0.0000000000	0.000000e+00	0	0.000000e+00	0.000000e+00	
## CSI044	0.0000000000	0.000000e+00	0	0.000000e+00	0.000000e+00	
## CSI055	0.0000000000	0.000000e+00	0	0.000000e+00	6.454250e-05	
## CSI065	0.0003025604	0.000000e+00	0	0.000000e+00	0.000000e+00	
## CSI076	0.0000000000	2.890675e-05	0	0.000000e+00	0.000000e+00	
##	0tu03916	0tu03917	0tu03918	0tu03919	0tu03920	0tu03921
## CSI001	4.690652e-05	0	0	0	0.0000000000	0
## CSI012	1.724971e-05	0	0	0	0.0000000000	0
## CSI022	0.000000e+00	0	0	0	0.0000000000	0
## CSI044	0.000000e+00	0	0	0	0.0000000000	0
## CSI055	0.000000e+00	0	0	0	0.0000000000	0
## CSI065	0.000000e+00	0	0	0	0.0000000000	0
## CSI076	0.000000e+00	0	0	0	0.0000000000	0
##	0tu03922	0tu03923	0tu03924	0tu03925	0tu03926	0tu03927
## CSI001	0	0	0	0	0	4.690652e-05
## CSI012	0	0	0	0	0	0.000000e+00
## CSI022	0	0	0	0	0	0.000000e+00
## CSI044	0	0	0	0	0	0.000000e+00
## CSI055	0	0	0	0	0	0.000000e+00
## CSI065	0	0	0	0	0	0.000000e+00
## CSI076	0	0	0	0	0	0.000000e+00
##	0tu03928	0tu03929	0tu03930	0tu03931	0tu03932	0tu03933
## CSI001	0.000000e+00	0	0	0.000000e+00	0	0.0000000000
## CSI012	0.000000e+00	0	0	0.000000e+00	0	0.0000000000
## CSI022	0.000000e+00	0	0	0.000000e+00	0	0.0000000000
## CSI044	0.000000e+00	0	0	0.000000e+00	0	0.0000000000



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## CSI055 1.075708e-04      0      0 2.151417e-05      0 0.0000000000
## CSI065 0.000000e+00      0      0 0.000000e+00      0 0.0000000000
## CSI076 0.000000e+00      0      0 2.890675e-05      0 0.0000000000
##      0tu03934      0tu03935 0tu03936      0tu03937      0tu03938 0tu03939
## CSI001      0 4.690652e-05      0 2.345326e-05 0.000000e+00      0
## CSI012      0 1.034982e-04      0 0.000000e+00 1.724971e-05      0
## CSI022      0 1.936400e-04      0 0.000000e+00 0.000000e+00      0
## CSI044      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI055      0 0.000000e+00      0 2.151417e-05 0.000000e+00      0
## CSI065      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI076      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
##      0tu03940 0tu03941 0tu03942 0tu03943 0tu03944 0tu03945 0tu03946
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu03947      0tu03948      0tu03949      0tu03950 0tu03951
## CSI001 2.345326e-05 2.345326e-05 0.000000e+00 0.000000e+00      0
## CSI012 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI022 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI044 0.000000e+00 0.000000e+00 3.943140e-05 0.000000e+00      0
## CSI055 4.302833e-05 0.000000e+00 2.581700e-04 0.000000e+00      0
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI076 0.000000e+00 0.000000e+00 8.672024e-05 0.000000e+00      0
##      0tu03952 0tu03953      0tu03954 0tu03955      0tu03956 0tu03957
## CSI001      0      0 4.690652e-05      0 0.000000e+00      0
## CSI012      0      0 0.000000e+00      0 0.000000e+00      0
## CSI022      0      0 0.000000e+00      0 2.151556e-05      0
## CSI044      0      0 0.000000e+00      0 0.000000e+00      0
## CSI055      0      0 0.000000e+00      0 0.000000e+00      0
## CSI065      0      0 0.000000e+00      0 0.000000e+00      0
## CSI076      0      0 0.000000e+00      0 8.672024e-05      0
##      0tu03958      0tu03959 0tu03960      0tu03961      0tu03962
## CSI001      0 0.0000000000      0 1.172663e-04 0.0000000000
## CSI012      0 0.0000000000      0 3.449941e-05 0.0000000000
## CSI022      0 0.0000000000      0 0.000000e+00 0.0000000000
## CSI044      0 0.0000000000      0 0.000000e+00 0.0000000000
## CSI055      0 0.0001075708      0 2.151417e-05 0.0000000000
## CSI065      0 0.0000000000      0 0.000000e+00 0.001096782
## CSI076      0 0.0000000000      0 0.000000e+00 0.0000000000
##      0tu03963 0tu03964 0tu03965 0tu03966      0tu03967 0tu03968
## CSI001 2.345326e-05      0      0      0 1.876261e-04      0
## CSI012 1.724971e-05      0      0      0 3.449941e-05      0
## CSI022 2.151556e-05      0      0      0 2.151556e-05      0
## CSI044 1.971570e-05      0      0      0 0.000000e+00      0
## CSI055 0.000000e+00      0      0      0 0.000000e+00      0
## CSI065 0.000000e+00      0      0      0 0.000000e+00      0
## CSI076 2.890675e-05      0      0      0 0.000000e+00      0
##      0tu03969 0tu03970 0tu03971      0tu03972      0tu03973 0tu03974
## CSI001      0      0      0 9.381303e-05 2.345326e-05      0
## CSI012      0      0      0 3.449941e-05 1.207479e-04      0

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##	CSI022	0	0	0	6.454667e-05	8.606222e-05	0
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI055	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI076	0	0	0	0.000000e+00	0.000000e+00	0
##		0tu03975	0tu03976	0tu03977	0tu03978	0tu03979	0tu03980
##	CSI001	0.000000e+00	0	0.0000000000	0	0	0
##	CSI012	0.000000e+00	0	0.0000000000	0	0	0
##	CSI022	0.000000e+00	0	0.0000000000	0	0	0
##	CSI044	0.000000e+00	0	0.0000000000	0	0	0
##	CSI055	1.505992e-04	0	0.0000645425	0	0	0
##	CSI065	0.000000e+00	0	0.0000000000	0	0	0
##	CSI076	2.890675e-05	0	0.0002023472	0	0	0
##		0tu03981	0tu03982	0tu03983	0tu03984	0tu03985	0tu03986
##	CSI001	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI012	0	0	1.724971e-05	0.000000e+00	0	0
##	CSI022	0	0	5.378889e-04	0.000000e+00	0	0
##	CSI044	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI055	0	0	0.000000e+00	2.151417e-05	0	0
##	CSI065	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI076	0	0	0.000000e+00	0.000000e+00	0	0
##		0tu03987	0tu03988	0tu03989	0tu03990	0tu03991	0tu03992
##	CSI001	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0.000000e+00
##		0tu03994	0tu03995	0tu03996	0tu03997	0tu03998	0tu03999
##	CSI001	0	0	0	0	7.035977e-05	0.000000e+00
##	CSI012	0	0	0	0	1.724971e-05	0.000000e+00
##	CSI022	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI044	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI055	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI065	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI076	0	0	0	0	5.781349e-05	0.000000e+00
##		0tu04000	0tu04001	0tu04002	0tu04003	0tu04004	0tu04005
##	CSI001	2.345326e-05	0	0	0.000000e+00	0.000000e+00	0
##	CSI012	5.174912e-05	0	0	0.000000e+00	0.000000e+00	0
##	CSI022	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI044	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI055	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI065	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI076	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##		0tu04006	0tu04007	0tu04008	0tu04009	0tu04010	0tu04011
##	CSI001	0	0	2.345326e-05	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0
##		0tu04012	0tu04013	0tu04014	0tu04015	0tu04016	0tu04017

##	CSI001	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI012	0.000000e+00	0	0	3.449941e-05	0	0	
##	CSI022	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI055	2.151417e-05	0	0	0.000000e+00	0	0	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0	
##		0tu04018	0tu04019	0tu04020	0tu04021	0tu04022	0tu04023	0tu04024
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	8.624853e-05
##	CSI022	0	0	0	0	0	0	8.606222e-05
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu04025	0tu04026	0tu04027	0tu04028	0tu04029	0tu04030	
##	CSI001	0.0000000000	0	0	0	0.000000e+00	0.000000e+00	
##	CSI012	0.0000000000	0	0	0	0.000000e+00	0.000000e+00	
##	CSI022	0.0000000000	0	0	0	0.000000e+00	0.000000e+00	
##	CSI044	0.0001774413	0	0	0	0.000000e+00	0.000000e+00	
##	CSI055	0.0000000000	0	0	0	0.000000e+00	0.000000e+00	
##	CSI065	0.0000000000	0	0	0	0.000000e+00	0.000000e+00	
##	CSI076	0.0000000000	0	0	0	0.000000e+00	0.000000e+00	
##		0tu04031	0tu04032	0tu04033	0tu04034	0tu04035	0tu04036	
##	CSI001	0.000000e+00	0	0.0000000000	0	0	0	
##	CSI012	0.000000e+00	0	0.0000000000	0	0	0	
##	CSI022	0.000000e+00	0	0.0000000000	0	0	0	
##	CSI044	0.000000e+00	0	0.0000000000	0	0	0	
##	CSI055	0.000000e+00	0	0.0000000000	0	0	0	
##	CSI065	0.000000e+00	0	0.0000000000	0	0	0	
##	CSI076	3.757877e-04	0	0.0001445337	0	0	0	
##		0tu04037	0tu04038	0tu04039	0tu04040	0tu04041	0tu04042	0tu04043
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	2.890675e-05	0
##		0tu04044	0tu04045	0tu04046	0tu04047	0tu04048		
##	CSI001	0.0000000000	0.0000000000	0	0	7.035977e-05		
##	CSI012	0.0000000000	0.0000000000	0	0	0.000000e+00		
##	CSI022	0.0000000000	0.0000000000	0	0	0.000000e+00		
##	CSI044	0.0000000000	0.0000788628	0	0	0.000000e+00		
##	CSI055	0.0000000000	0.0000000000	0	0	0.000000e+00		
##	CSI065	0.0000000000	0.0001512802	0	0	0.000000e+00		
##	CSI076	0.0000000000	0.0002312540	0	0	0.000000e+00		
##		0tu04049	0tu04050	0tu04051	0tu04052	0tu04053		
##	CSI001	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0		
##	CSI012	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0		
##	CSI022	0.000000e+00	2.151556e-05	0.000000e+00	0.000000e+00	0		
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0		
##	CSI055	8.605667e-05	0.000000e+00	8.605667e-05	0.000000e+00	0		
##	CSI065	3.782005e-05	0.000000e+00	0.000000e+00	0.000000e+00	0		

```

## CSI076 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0
##      0tu04054 0tu04055 0tu04056 0tu04057 0tu04058 0tu04059 0tu04060
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu04061      0tu04062      0tu04063      0tu04064 0tu04065
## CSI001      0 0.000000e+00 0.000000e+00 9.381303e-05      0
## CSI012      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI022      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI044      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI055      0 0.000000e+00 2.151417e-05 0.000000e+00      0
## CSI065      0 0.000000e+00 3.782005e-05 0.000000e+00      0
## CSI076      0 2.890675e-05 8.672024e-05 0.000000e+00      0
##      0tu04066 0tu04067      0tu04068 0tu04069 0tu04070      0tu04071
## CSI001 0.000000e+00      0 0.000000e+00      0      0 4.690652e-05
## CSI012 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI022 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI044 0.000000e+00      0 1.971570e-05      0      0 0.000000e+00
## CSI055 1.505992e-04      0 1.505992e-04      0      0 0.000000e+00
## CSI065 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI076 0.000000e+00      0 2.890675e-05      0      0 0.000000e+00
##      0tu04072 0tu04073 0tu04074 0tu04075 0tu04076      0tu04077 0tu04078
## CSI001      0      0      0      0      0 0.000000e+00      0
## CSI012      0      0      0      0      0 0.000000e+00      0
## CSI022      0      0      0      0      0 0.000000e+00      0
## CSI044      0      0      0      0      0 0.000000e+00      0
## CSI055      0      0      0      0      0 2.151417e-05      0
## CSI065      0      0      0      0      0 0.000000e+00      0
## CSI076      0      0      0      0      0 0.000000e+00      0
##      0tu04079 0tu04080      0tu04081      0tu04082 0tu04083      0tu04084
## CSI001      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI012      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI022      0      0 0.000000e+00 2.151556e-05      0 0.000000e+00
## CSI044      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI055      0      0 8.605667e-05 0.000000e+00      0 0.000000e+00
## CSI065      0      0 0.000000e+00 0.000000e+00      0 3.782005e-04
## CSI076      0      0 0.000000e+00 0.000000e+00      0 2.890675e-05
##      0tu04085      0tu04086      0tu04087 0tu04088 0tu04089      0tu04090
## CSI001      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI012      0 3.449941e-05 0.000000e+00      0      0 0.000000e+00
## CSI022      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI044      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI055      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI065      0 0.000000e+00 7.564010e-05      0      0 3.782005e-05
## CSI076      0 0.000000e+00 0.000000e+00      0      0 5.781349e-05
##      0tu04091 0tu04092      0tu04093 0tu04094 0tu04095 0tu04096 0tu04097
## CSI001      0      0 1.172663e-04      0      0      0      0
## CSI012      0      0 1.724971e-05      0      0      0      0
## CSI022      0      0 0.000000e+00      0      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0      0

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##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	3.782005e-05	0	0	0	0
##	CSI076	0	0	2.890675e-05	0	0	0	0
##		0tu04098	0tu04099	0tu04100	0tu04101	0tu04102	0tu04103	
##	CSI001	0.0001172663	0	2.345326e-05	0	0	0.000000e+00	
##	CSI012	0.0001034982	0	0.000000e+00	0	0	0.000000e+00	
##	CSI022	0.0000000000	0	2.151556e-05	0	0	0.000000e+00	
##	CSI044	0.0000000000	0	0.000000e+00	0	0	0.000000e+00	
##	CSI055	0.0000000000	0	0.000000e+00	0	0	0.000000e+00	
##	CSI065	0.0000000000	0	0.000000e+00	0	0	0.000000e+00	
##	CSI076	0.0000000000	0	0.000000e+00	0	0	0.000000e+00	
##		0tu04104	0tu04105	0tu04106	0tu04107	0tu04108	0tu04109	0tu04110
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	1.724971e-05	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu04111	0tu04112	0tu04113	0tu04114	0tu04115	0tu04116	
##	CSI001	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI012	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI022	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0	8.605667e-05	4.302833e-05	0	3.227125e-04	0	
##	CSI065	0	0.000000e+00	3.782005e-05	0	0.000000e+00	0	
##	CSI076	0	0.000000e+00	2.890675e-05	0	2.890675e-05	0	
##		0tu04117	0tu04118	0tu04119	0tu04120	0tu04121	0tu04122	
##	CSI001	0	2.345326e-05	0.000000e+00	0	0	2.345326e-05	
##	CSI012	0	0.000000e+00	0.000000e+00	0	0	8.624853e-05	
##	CSI022	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI055	0	0.000000e+00	2.151417e-05	0	0	0.000000e+00	
##	CSI065	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI076	0	2.890675e-05	0.000000e+00	0	0	0.000000e+00	
##		0tu04123	0tu04124	0tu04125	0tu04126	0tu04127	0tu04128	
##	CSI001	0	0.0000000000	0	0	0.000000e+00	0.0000000000	
##	CSI012	0	0.0001552474	0	0	8.624853e-05	0.0000000000	
##	CSI022	0	0.0000000000	0	0	0.000000e+00	0.0000000000	
##	CSI044	0	0.0000000000	0	0	0.000000e+00	0.0000000000	
##	CSI055	0	0.0000000000	0	0	0.000000e+00	0.0000000000	
##	CSI065	0	0.0000000000	0	0	0.000000e+00	0.0009455013	
##	CSI076	0	0.0000000000	0	0	0.000000e+00	0.0000000000	
##		0tu04129	0tu04130	0tu04131	0tu04132	0tu04133	0tu04134	0tu04135
##	CSI001	0	0	4.690652e-05	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	2.151417e-05	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	5.492282e-04	0	0	0	0
##		0tu04136	0tu04137	0tu04138	0tu04139	0tu04140	0tu04141	
##	CSI001	0	0	0	0	4.690652e-05	0.000000e+00	
##	CSI012	0	0	0	0	0.000000e+00	0.000000e+00	

##	CSI022	0	0	0	0	2.151556e-05	0.000000e+00
##	CSI044	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI055	0	0	0	0	0.000000e+00	4.302833e-05
##	CSI065	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI076	0	0	0	0	0.000000e+00	0.000000e+00
##		0tu04142	0tu04143	0tu04144	0tu04145	0tu04146	0tu04147
##	CSI001	0	0	0	9.381303e-05	0	0
##	CSI012	0	0	0	1.034982e-04	0	0
##	CSI022	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0.000000e+00	0	0
##		0tu04148	0tu04149	0tu04150	0tu04151	0tu04152	
##	CSI001	0.0000000000	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI012	0.0000000000	1.724971e-05	0	0.000000e+00	0.000000e+00	
##	CSI022	0.0000000000	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI044	0.0000000000	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI055	0.0000000000	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI065	0.0001891003	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI076	0.0000000000	0.000000e+00	0	8.672024e-05	0.000000e+00	
##		0tu04153	0tu04154	0tu04155	0tu04156	0tu04157	0tu04158
##	CSI001	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	2.151556e-05	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0
##		0tu04160	0tu04161	0tu04162	0tu04163	0tu04164	0tu04165
##	CSI001	0	0.0000000000	0	0.000000e+00	0.0000000000	0
##	CSI012	0	0.0000000000	0	1.724971e-05	0.0003622438	0
##	CSI022	0	0.0000000000	0	0.000000e+00	0.0000000000	0
##	CSI044	0	0.0000000000	0	0.000000e+00	0.0000000000	0
##	CSI055	0	0.0000000000	0	2.366558e-04	0.0000000000	0
##	CSI065	0	0.0000000000	0	0.000000e+00	0.0000000000	0
##	CSI076	0	0.0001156270	0	0.000000e+00	0.0000000000	0
##		0tu04166	0tu04167	0tu04168	0tu04169	0tu04170	
##	CSI001	0.000000e+00	0.000000e+00	0.0000000000	0	0	
##	CSI012	0.000000e+00	0.000000e+00	0.0000000000	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0.0000000000	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0.0004731768	0	0	
##	CSI055	0.000000e+00	0.000000e+00	0.0000000000	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0.0000000000	0	0	
##	CSI076	0.000000e+00	0.000000e+00	0.0000000000	0	0	
##		0tu04171	0tu04172	0tu04173	0tu04174	0tu04175	0tu04176
##	CSI001	0.000000e+00	0	0	0	2.345326e-05	0
##	CSI012	3.449941e-05	0	0	0	0.000000e+00	0
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI076	1.156270e-04	0	0	0	0.000000e+00	0
##		0tu04177	0tu04178	0tu04179	0tu04180	0tu04181	

##	CSI001	2.345326e-05	0.000000e+00	2.345326e-05	0	0
##	CSI012	0.000000e+00	1.724971e-05	3.449941e-05	0	0
##	CSI022	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI055	0.000000e+00	4.302833e-05	0.000000e+00	0	0
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI076	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##		0tu04182	0tu04183	0tu04184	0tu04185	0tu04186 0tu04187
##	CSI001	9.381303e-05	0	7.035977e-05	0.000000e+00	0 0
##	CSI012	0.000000e+00	0	0.000000e+00	3.449941e-04	0 0
##	CSI022	0.000000e+00	0	0.000000e+00	0.000000e+00	0 0
##	CSI044	0.000000e+00	0	0.000000e+00	0.000000e+00	0 0
##	CSI055	0.000000e+00	0	0.000000e+00	0.000000e+00	0 0
##	CSI065	0.000000e+00	0	0.000000e+00	0.000000e+00	0 0
##	CSI076	0.000000e+00	0	0.000000e+00	0.000000e+00	0 0
##		0tu04188	0tu04189	0tu04190	0tu04191	0tu04192 0tu04193
##	CSI001	2.345326e-05	0	2.345326e-05	0	2.345326e-05 0
##	CSI012	0.000000e+00	0	0.000000e+00	0	0.000000e+00 0
##	CSI022	0.000000e+00	0	0.000000e+00	0	0.000000e+00 0
##	CSI044	0.000000e+00	0	0.000000e+00	0	0.000000e+00 0
##	CSI055	0.000000e+00	0	0.000000e+00	0	0.000000e+00 0
##	CSI065	0.000000e+00	0	0.000000e+00	0	0.000000e+00 0
##	CSI076	0.000000e+00	0	0.000000e+00	0	4.625079e-04 0
##		0tu04194	0tu04195	0tu04196	0tu04197	0tu04198 0tu04199
##	CSI001	0	0.000000e+00	0	1.641728e-04	0 0
##	CSI012	0	1.724971e-05	0	1.724971e-05	0 0
##	CSI022	0	4.303111e-05	0	0.000000e+00	0 0
##	CSI044	0	0.000000e+00	0	0.000000e+00	0 0
##	CSI055	0	0.000000e+00	0	6.454250e-05	0 0
##	CSI065	0	0.000000e+00	0	0.000000e+00	0 0
##	CSI076	0	5.781349e-05	0	0.000000e+00	0 0
##		0tu04200	0tu04201	0tu04202	0tu04203	0tu04204 0tu04205
##	CSI001	0	0.0000000000	0.000000e+00	0	0 0
##	CSI012	0	0.0000000000	0.000000e+00	0	0 0
##	CSI022	0	0.0000000000	2.151556e-05	0	0 0
##	CSI044	0	0.0000000000	0.000000e+00	0	0 0
##	CSI055	0	0.0000000000	0.000000e+00	0	0 0
##	CSI065	0	0.0000000000	0.000000e+00	0	0 0
##	CSI076	0	0.0000000000	0.000000e+00	0	0 0
##		0tu04206	0tu04207	0tu04208	0tu04209	0tu04210 0tu04211 0tu04212
##	CSI001	0	4.690652e-05	0	0	0 0 0
##	CSI012	0	0.000000e+00	0	0	0 0 0
##	CSI022	0	0.000000e+00	0	0	0 0 0
##	CSI044	0	0.000000e+00	0	0	0 0 0
##	CSI055	0	0.000000e+00	0	0	0 0 0
##	CSI065	0	0.000000e+00	0	0	0 0 0
##	CSI076	0	0.000000e+00	0	0	0 0 0
##		0tu04213	0tu04214	0tu04215	0tu04216	0tu04217 0tu04218 0tu04219
##	CSI001	0	0	0	0	0.0000000000 0 0
##	CSI012	0	0	0	0	0.0000000000 0 0
##	CSI022	0	0	0	0	0.0000000000 0 0
##	CSI044	0	0	0	0	0.0000000000 0 0
##	CSI055	0	0	0	0	0.0002796842 0 0
##	CSI065	0	0	0	0	0.0000000000 0 0

##	CSI076	0	0	0	0	0.0000000000	0	0
##		0tu04220	0tu04221	0tu04222	0tu04223	0tu04224	0tu04225	
##	CSI001	0	0	0	0.000000e+00	4.690652e-05	0	
##	CSI012	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI022	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI055	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI076	0	0	0	1.156270e-04	0.000000e+00	0	
##		0tu04226	0tu04227	0tu04228	0tu04229	0tu04230		
##	CSI001	9.381303e-05		0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI012	3.449941e-05		0	0.000000e+00	0.000000e+00	1.724971e-05	
##	CSI022	0.000000e+00		0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI044	0.000000e+00		0	1.97157e-05	0.000000e+00	0.000000e+00	
##	CSI055	0.000000e+00		0	0.000000e+00	8.605667e-05	0.000000e+00	
##	CSI065	0.000000e+00		0	0.000000e+00	3.782005e-05	0.000000e+00	
##	CSI076	0.000000e+00		0	0.000000e+00	1.734405e-04	0.000000e+00	
##		0tu04231	0tu04232	0tu04233	0tu04234	0tu04235	0tu04236	
##	CSI001	0	0.000000e+00	0.000000e+00	0	2.345326e-05	0	
##	CSI012	0	1.724971e-05	0.000000e+00	0	8.624853e-05	0	
##	CSI022	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0	0.000000e+00	2.151417e-05	0	1.290850e-04	0	
##	CSI065	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##		0tu04237	0tu04238	0tu04239	0tu04240	0tu04241	0tu04242	0tu04243
##	CSI001	0	0	0	3.517989e-04	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		0tu04244	0tu04245	0tu04246	0tu04247	0tu04248	0tu04249	
##	CSI001	0	0	0	0	4.690652e-05	0	
##	CSI012	0	0	0	0	1.724971e-05	0	
##	CSI022	0	0	0	0	6.454667e-05	0	
##	CSI044	0	0	0	0	0.000000e+00	0	
##	CSI055	0	0	0	0	0.000000e+00	0	
##	CSI065	0	0	0	0	0.000000e+00	0	
##	CSI076	0	0	0	0	0.000000e+00	0	
##		0tu04250	0tu04251	0tu04252	0tu04253	0tu04254		
##	CSI001	0.0000000000		0	0.0000000000	0	0.000000e+00	
##	CSI012	0.0000000000		0	0.0000000000	0	0.000000e+00	
##	CSI022	0.0000000000		0	0.0000000000	0	0.000000e+00	
##	CSI044	0.0000000000		0	0.0000000000	0	0.000000e+00	
##	CSI055	0.0000000000		0	0.0000000000	0	0.000000e+00	
##	CSI065	0.0000000000		0	0.0000000000	0	0.000000e+00	
##	CSI076	0.0000000000		0	0.0000000000	0	0.000000e+00	
##		0tu04255	0tu04256	0tu04257	0tu04258	0tu04259	0tu04260	
##	CSI001	0.000000e+00		0	7.035977e-05	0	0	0
##	CSI012	0.000000e+00		0	0.000000e+00	0	0	0
##	CSI022	0.000000e+00		0	2.151556e-05	0	0	0
##	CSI044	0.000000e+00		0	0.000000e+00	0	0	0



##	CSI055	1.290850e-04	0	2.151417e-05	0	0	0	
##	CSI065	1.134602e-04	0	0.000000e+00	0	0	0	
##	CSI076	2.890675e-05	0	0.000000e+00	0	0	0	
##		0tu04261	0tu04262	0tu04263	0tu04264	0tu04265	0tu04266	0tu04267
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	8.606222e-05	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		0tu04268	0tu04269	0tu04270	0tu04271	0tu04272	0tu04273	0tu04274
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu04275	0tu04276	0tu04277	0tu04278	0tu04279	0tu04280	
##	CSI001	0	1.172663e-04	0	0.000000e+00	1.876261e-04		0
##	CSI012	0	1.379977e-04	0	0.000000e+00	8.624853e-05		0
##	CSI022	0	6.454667e-05	0	0.000000e+00	0.000000e+00		0
##	CSI044	0	0.000000e+00	0	0.000000e+00	0.000000e+00		0
##	CSI055	0	0.000000e+00	0	0.000000e+00	0.000000e+00		0
##	CSI065	0	0.000000e+00	0	0.000000e+00	0.000000e+00		0
##	CSI076	0	0.000000e+00	0	0.000000e+00	0.000000e+00		0
##		0tu04281	0tu04282	0tu04283	0tu04284	0tu04285	0tu04286	
##	CSI001	0.0000000000	0	0	0	0	0.0000000000	
##	CSI012	0.0000000000	0	0	0	0	0.0000000000	
##	CSI022	0.0000000000	0	0	0	0	0.0006024356	
##	CSI044	0.0000000000	0	0	0	0	0.0000000000	
##	CSI055	0.0000645425	0	0	0	0	0.0000000000	
##	CSI065	0.0000000000	0	0	0	0	0.0000000000	
##	CSI076	0.0004625079	0	0	0	0	0.0000000000	
##		0tu04287	0tu04288	0tu04289	0tu04290	0tu04291	0tu04292	
##	CSI001	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI012	0	0	0	1.724971e-05	0	0.000000e+00	
##	CSI022	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI076	0	0	0	0.000000e+00	0	0.000000e+00	
##		0tu04293	0tu04294	0tu04295	0tu04296	0tu04297	0tu04298	
##	CSI001	0	0	0.000000e+00	0	4.690652e-05	0.000000e+00	
##	CSI012	0	0	0.000000e+00	0	5.174912e-05	0.000000e+00	
##	CSI022	0	0	0.000000e+00	0	2.151556e-05	0.000000e+00	
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI055	0	0	2.151417e-05	0	0.000000e+00	0.000000e+00	
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI076	0	0	0.000000e+00	0	0.000000e+00	1.156270e-04	
##		0tu04299	0tu04300	0tu04301	0tu04302	0tu04303	0tu04304	
##	CSI001	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI012	0	1.724971e-05	0.000000e+00	0	0	0	

##	CSI022	0	6.454667e-05	0.000000e+00	0	0	0
##	CSI044	0	0.000000e+00	3.943140e-05	0	0	0
##	CSI055	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI065	0	0.000000e+00	3.782005e-05	0	0	0
##	CSI076	0	2.890675e-05	2.890675e-04	0	0	0
##		0tu04305	0tu04306	0tu04307	0tu04308	0tu04309	0tu04310
##	CSI001	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI012	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI022	0	0	2.151556e-05	0.000000e+00	0	0
##	CSI044	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI055	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI065	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI076	0	0	0.000000e+00	0.000000e+00	0	0
##		0tu04311	0tu04312	0tu04313	0tu04314	0tu04315	0tu04316
##	CSI001	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI012	0	0	0	6.899883e-05	0.000000e+00	0
##	CSI022	0	0	0	0.000000e+00	2.151556e-05	0
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI055	0	0	0	0.000000e+00	2.151417e-05	0
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI076	0	0	0	0.000000e+00	0.000000e+00	0
##		0tu04317	0tu04318	0tu04319	0tu04320	0tu04321	0tu04322
##	CSI001	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI012	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI022	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI055	4.302833e-05	1.075708e-04	0	0	0.000000e+00	0
##	CSI065	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI076	0.000000e+00	5.781349e-05	0	0	0.000000e+00	0
##		0tu04323	0tu04324	0tu04325	0tu04326	0tu04327	0tu04328
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI012	1.724971e-05	0	0	0	0.000000e+00	0
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI076	0.000000e+00	0	0	0	8.672024e-05	0
##		0tu04329	0tu04330	0tu04331	0tu04332	0tu04333	0tu04334
##	CSI001	0.000000e+00	0	4.690652e-05	0	0	0
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI044	0.000000e+00	0	1.971570e-05	0	0	0
##	CSI055	2.151417e-05	0	6.454250e-05	0	0	0
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI076	2.312540e-04	0	0.000000e+00	0	0	0
##		0tu04335	0tu04336	0tu04337	0tu04338	0tu04339	0tu04340
##	CSI001	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI012	0	5.174912e-05	0.000000e+00	0	0	0
##	CSI022	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI055	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI065	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI076	0	0.000000e+00	0.000000e+00	0	0	0
##		0tu04341	0tu04342	0tu04343	0tu04344	0tu04345	

##	CSI001	0	0.000000e+00	0	0.000000e+00	0.000000e+00		
##	CSI012	0	0.000000e+00	0	0.000000e+00	0.000000e+00		
##	CSI022	0	0.000000e+00	0	2.151556e-05	4.303111e-05		
##	CSI044	0	0.000000e+00	0	9.857850e-05	0.000000e+00		
##	CSI055	0	0.000000e+00	0	0.000000e+00	0.000000e+00		
##	CSI065	0	0.000000e+00	0	0.000000e+00	0.000000e+00		
##	CSI076	0	0.000000e+00	0	2.890675e-05	0.000000e+00		
##		0tu04346	0tu04347	0tu04348	0tu04349	0tu04350	0tu04351	
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI012	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI055	4.302833e-05	0.000000e+00	0	0	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI076	8.672024e-05	2.890675e-05	0	0	0	0	
##		0tu04352	0tu04353	0tu04354	0tu04355	0tu04356		
##	CSI001	2.345326e-05	0	0	0.000000e+00	0.000000e+00		
##	CSI012	3.449941e-05	0	0	5.174912e-05	0.000000e+00		
##	CSI022	0.000000e+00	0	0	0.000000e+00	0.000000e+00		
##	CSI044	0.000000e+00	0	0	0.000000e+00	0.000000e+00		
##	CSI055	0.000000e+00	0	0	6.454250e-05	4.302833e-05		
##	CSI065	0.000000e+00	0	0	0.000000e+00	0.000000e+00		
##	CSI076	0.000000e+00	0	0	8.672024e-05	0.000000e+00		
##		0tu04357	0tu04358	0tu04359	0tu04360	0tu04361		
##	CSI001	0.000000e+00	0	2.345326e-05	2.345326e-05	0		
##	CSI012	1.724971e-05	0	0.000000e+00	3.449941e-05	0		
##	CSI022	0.000000e+00	0	0.000000e+00	4.303111e-05	0		
##	CSI044	0.000000e+00	0	0.000000e+00	0.000000e+00	0		
##	CSI055	0.000000e+00	0	0.000000e+00	0.000000e+00	0		
##	CSI065	0.000000e+00	0	0.000000e+00	0.000000e+00	0		
##	CSI076	0.000000e+00	0	0.000000e+00	0.000000e+00	0		
##		0tu04362	0tu04363	0tu04364	0tu04365	0tu04366		
##	CSI001	0.000000e+00	0.000000e+00	0.000000e+00	0.0000000000	0		
##	CSI012	0.000000e+00	0.000000e+00	0.000000e+00	0.0000000000	0		
##	CSI022	0.000000e+00	0.000000e+00	0.000000e+00	0.0000000000	0		
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0.0000000000	0		
##	CSI055	0.000000e+00	4.302833e-05	0.000000e+00	0.0000000000	0		
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0.0000000000	0		
##	CSI076	0.000000e+00	0.000000e+00	0.000000e+00	0.0000000000	0		
##		0tu04367	0tu04368	0tu04369	0tu04370	0tu04371	0tu04372	
##	CSI001	0	0	0	0.000000e+00	0.0000000000	0	
##	CSI012	0	0	0	0.000000e+00	0.0000000000	0	
##	CSI022	0	0	0	4.303111e-05	0.0000000000	0	
##	CSI044	0	0	0	0.000000e+00	0.0000000000	0	
##	CSI055	0	0	0	0.000000e+00	0.0000000000	0	
##	CSI065	0	0	0	0.000000e+00	0.0000000000	0	
##	CSI076	0	0	0	0.000000e+00	0.0000000000	0	
##		0tu04373	0tu04374	0tu04375	0tu04376	0tu04377	0tu04378	0tu04379
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	2.151417e-05	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0

##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu04380	0tu04381	0tu04382	0tu04383	0tu04384	0tu04385	
##	CSI001	0	1.172663e-04	0	0.000000e+00	0	0	
##	CSI012	0	8.624853e-05	0	5.174912e-05	0	0	
##	CSI022	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI044	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI055	0	0.000000e+00	0	4.302833e-05	0	0	
##	CSI065	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI076	0	0.000000e+00	0	0.000000e+00	0	0	
##		0tu04386	0tu04387	0tu04388	0tu04389	0tu04390	0tu04391	0tu04392
##	CSI001	0	0	0	0	0	0	9.381303e-05
##	CSI012	0	0	0	0	0	0	1.724971e-05
##	CSI022	0	0	0	0	0	0	2.151556e-05
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu04393	0tu04394	0tu04395	0tu04396	0tu04397	0tu04398	
##	CSI001	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI012	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI022	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI055	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI065	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI076	0	0.000000e+00	2.890675e-05	0	0	0	
##		0tu04399	0tu04400	0tu04401	0tu04402	0tu04403	0tu04404	
##	CSI001	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI012	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI022	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI044	0	0.000000e+00	0	1.97157e-05	0	0	
##	CSI055	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI065	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI076	0	0.000000e+00	0	0.000000e+00	0	0	
##		0tu04405	0tu04406	0tu04407	0tu04408	0tu04409	0tu04410	0tu04411
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	4.302833e-05	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		0tu04412	0tu04413	0tu04414	0tu04415	0tu04416	0tu04417	
##	CSI001	0	0	0	0.000000e+00	0	0	
##	CSI012	0	0	0	0.000000e+00	0	0	
##	CSI022	0	0	0	0.000000e+00	0	0	
##	CSI044	0	0	0	0.000000e+00	0	0	
##	CSI055	0	0	0	2.151417e-05	0	0	
##	CSI065	0	0	0	0.000000e+00	0	0	
##	CSI076	0	0	0	0.000000e+00	0	0	
##		0tu04418	0tu04419	0tu04420	0tu04421	0tu04422	0tu04423	
##	CSI001	0.000000e+00	0	0.000000e+00	0.0000000000	0	0	
##	CSI012	0.000000e+00	0	0.000000e+00	0.0000000000	0	0	
##	CSI022	0.000000e+00	0	0.000000e+00	0.0000000000	0	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0.0000000000	0	0	

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## CSI055 0.00000e+00      0 0.000000e+00 0.0000000000      0      0
## CSI065 0.00000e+00      0 0.000000e+00 0.0001134602      0      0
## CSI076 0.00000e+00      0 0.000000e+00 0.0000000000      0      0
##      0tu04424      0tu04425 0tu04426 0tu04427      0tu04428 0tu04429
## CSI001      0 0.000000e+00      0      0 0.000000e+00      0
## CSI012      0 0.000000e+00      0      0 0.000000e+00      0
## CSI022      0 0.000000e+00      0      0 0.000000e+00      0
## CSI044      0 0.000000e+00      0      0 1.971570e-05      0
## CSI055      0 0.000000e+00      0      0 0.000000e+00      0
## CSI065      0 3.782005e-05      0      0 0.000000e+00      0
## CSI076      0 0.000000e+00      0      0 8.672024e-05      0
##      0tu04430      0tu04431      0tu04432      0tu04433      0tu04434
## CSI001      0 0.000000e+00 0.0000000000 0.000000e+00 0.0000000000
## CSI012      0 1.724971e-05 0.0000000000 0.000000e+00 0.0000000000
## CSI022      0 0.000000e+00 0.0000000000 0.000000e+00 0.0000000000
## CSI044      0 0.000000e+00 0.0000000000 0.000000e+00 0.0000000000
## CSI055      0 0.000000e+00 0.0003011983 2.151417e-05 0.0001505992
## CSI065      0 0.000000e+00 0.0000000000 0.000000e+00 0.0000000000
## CSI076      0 0.000000e+00 0.0000000000 1.156270e-04 0.0000000000
##      0tu04435 0tu04436 0tu04437      0tu04438 0tu04439      0tu04440
## CSI001      0      0      0 0.000000e+00      0 0.000000e+00
## CSI012      0      0      0 3.449941e-04      0 0.000000e+00
## CSI022      0      0      0 0.000000e+00      0 0.000000e+00
## CSI044      0      0      0 0.000000e+00      0 0.000000e+00
## CSI055      0      0      0 0.000000e+00      0 0.000000e+00
## CSI065      0      0      0 0.000000e+00      0 0.000000e+00
## CSI076      0      0      0 0.000000e+00      0 0.000000e+00
##      0tu04441 0tu04442 0tu04443 0tu04444 0tu04445      0tu04446
## CSI001      0      0      0      0      0 0.00000e+00
## CSI012      0      0      0      0      0 0.00000e+00
## CSI022      0      0      0      0      0 0.00000e+00
## CSI044      0      0      0      0      0 0.00000e+00
## CSI055      0      0      0      0      0 0.00000e+00
## CSI065      0      0      0      0      0 0.00000e+00
## CSI076      0      0      0      0      0 0.00000e+00
##      0tu04447      0tu04448 0tu04449 0tu04450      0tu04451
## CSI001 0.000000e+00 2.345326e-05      0      0 4.690652e-05
## CSI012 0.000000e+00 1.724971e-05      0      0 3.449941e-05
## CSI022 0.000000e+00 4.303111e-05      0      0 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI055 1.075708e-04 2.151417e-05      0      0 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00      0      0 0.000000e+00
##      0tu04452      0tu04453 0tu04454 0tu04455 0tu04456 0tu04457
## CSI001 0.000000e+00 0.0000000000      0      0      0      0
## CSI012 0.000000e+00 0.0000000000      0      0      0      0
## CSI022 0.000000e+00 0.0000000000      0      0      0      0
## CSI044 0.000000e+00 0.0000000000      0      0      0      0
## CSI055 0.000000e+00 0.0003011983      0      0      0      0
## CSI065 0.000000e+00 0.0000000000      0      0      0      0
## CSI076 2.890675e-05 0.0000000000      0      0      0      0
##      0tu04458 0tu04459 0tu04460 0tu04461      0tu04462 0tu04463
## CSI001 0.000000e+00      0      0      0 0.0000000000      0
## CSI012 1.724971e-05      0      0      0 0.0000000000      0

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##	CSI022	0.000000e+00	0	0	0	0.0000000000	0
##	CSI044	0.000000e+00	0	0	0	0.0000000000	0
##	CSI055	0.000000e+00	0	0	0	0.0001936275	0
##	CSI065	0.000000e+00	0	0	0	0.0000000000	0
##	CSI076	0.000000e+00	0	0	0	0.0000000000	0
##		Otu04464	Otu04465	Otu04466	Otu04467	Otu04468	Otu04469
##	CSI001	9.381303e-05	0.0000000000	0	0	0	0
##	CSI012	0.000000e+00	0.0000000000	0	0	0	0
##	CSI022	0.000000e+00	0.0000000000	0	0	0	0
##	CSI044	0.000000e+00	0.0000000000	0	0	0	0
##	CSI055	0.000000e+00	0.0000000000	0	0	0	0
##	CSI065	0.000000e+00	0.0003782005	0	0	0	0
##	CSI076	0.000000e+00	0.0000000000	0	0	0	0
##		Otu04470	Otu04471	Otu04472	Otu04473	Otu04474	Otu04475
##	CSI001	0	0	2.345326e-05	0	0.000000e+00	0
##	CSI012	0	0	1.724971e-05	0	3.449941e-05	0
##	CSI022	0	0	2.151556e-05	0	0.000000e+00	0
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI076	0	0	0.000000e+00	0	0.000000e+00	0
##		Otu04476	Otu04477	Otu04478	Otu04479	Otu04480	Otu04481
##	CSI001	0	0	4.690652e-05	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0
##		Otu04482	Otu04483	Otu04484	Otu04485	Otu04486	Otu04487
##	CSI001	0.000000e+00	1.641728e-04	0	0	0	0.000000e+00
##	CSI012	0.000000e+00	3.449941e-05	0	0	0	0.000000e+00
##	CSI022	6.454667e-05	0.000000e+00	0	0	0	0.000000e+00
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	3.782005e-05
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##		Otu04488	Otu04489	Otu04490	Otu04491	Otu04492	Otu04493
##	CSI001	0.000000e+00	0	0	2.345326e-05	0	4.690652e-05
##	CSI012	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI022	0.000000e+00	0	0	4.303111e-05	0	0.000000e+00
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI055	4.517975e-04	0	0	0.000000e+00	0	0.000000e+00
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##		Otu04494	Otu04495	Otu04496	Otu04497	Otu04498	Otu04499
##	CSI001	0	0.000000e+00	0	0	0	0
##	CSI012	0	1.724971e-05	0	0	0	0
##	CSI022	0	4.303111e-05	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0
##		Otu04500	Otu04501	Otu04502	Otu04503	Otu04504	Otu04505

##	CSI001	0.0000000000	0	2.345326e-05	0	0	0	
##	CSI012	0.0000000000	0	5.174912e-05	0	0	0	
##	CSI022	0.0000000000	0	0.000000e+00	0	0	0	
##	CSI044	0.0000000000	0	0.000000e+00	0	0	0	
##	CSI055	0.0000000000	0	0.000000e+00	0	0	0	
##	CSI065	0.0000000000	0	0.000000e+00	0	0	0	
##	CSI076	0.0000000000	0	0.000000e+00	0	0	0	
##		0tu04506	0tu04507	0tu04508	0tu04509	0tu04510	0tu04511	
##	CSI001	0.0000000000	0	0.000000e+00	0	0.000000e+00	0	
##	CSI012	0.0000000000	0	0.000000e+00	0	0.000000e+00	0	
##	CSI022	0.0000000000	0	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0.0000000000	0	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0.0000000000	0	4.302833e-05	0	4.302833e-05	0	
##	CSI065	0.0000000000	0	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0.0001445337	0	8.672024e-05	0	0.000000e+00	0	
##		0tu04512	0tu04513	0tu04514	0tu04515	0tu04516	0tu04517	0tu04518
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	1.075778e-04
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu04519	0tu04520	0tu04521	0tu04522	0tu04523	0tu04524	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00	
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00	
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00	
##	CSI055	0.000000e+00	0	2.151417e-05	0	0	2.151417e-05	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00	
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00	
##		0tu04525	0tu04526	0tu04527	0tu04528	0tu04529	0tu04530	
##	CSI001	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI012	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI022	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI044	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI055	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI065	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI076	0	0.000000e+00	0	0	0	0.000000e+00	
##		0tu04531	0tu04532	0tu04533	0tu04534	0tu04535	0tu04536	0tu04537
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu04538	0tu04539	0tu04540	0tu04541	0tu04542	0tu04543	
##	CSI001	0	0	0	2.345326e-05	0	0	
##	CSI012	0	0	0	0.000000e+00	0	0	
##	CSI022	0	0	0	0.000000e+00	0	0	
##	CSI044	0	0	0	0.000000e+00	0	0	
##	CSI055	0	0	0	2.151417e-05	0	0	
##	CSI065	0	0	0	0.000000e+00	0	0	

##	CSI076	0	0	0 0.000000e+00	0	0
##		0tu04544	0tu04545	0tu04546	0tu04547	0tu04548
##	CSI001	0.000000e+00	0	4.690652e-05	0	0 0.000000e+00
##	CSI012	0.000000e+00	0	0.000000e+00	0	0 0.000000e+00
##	CSI022	0.000000e+00	0	2.151556e-05	0	0 0.000000e+00
##	CSI044	0.000000e+00	0	0.000000e+00	0	0 0.000000e+00
##	CSI055	1.290850e-04	0	0.000000e+00	0	0 0.000000e+00
##	CSI065	0.000000e+00	0	0.000000e+00	0	0 3.782005e-05
##	CSI076	0.000000e+00	0	0.000000e+00	0	0 2.890675e-05
##		0tu04550	0tu04551	0tu04552	0tu04553	0tu04554
##	CSI001	0	0	0	0	0
##	CSI012	0	0	0	0	0
##	CSI022	0	0	0	0	0
##	CSI044	0	0	0	0	0
##	CSI055	0	0	0	0	0
##	CSI065	0	0	0	0	0
##	CSI076	0	0	0	0	0
##		0tu04557	0tu04558	0tu04559	0tu04560	0tu04561
##	CSI001	0.000000e+00	0	0 0.000000e+00	0	0 0.000000e+00
##	CSI012	0.000000e+00	0	0 0.000000e+00	0	0 0.000000e+00
##	CSI022	0.000000e+00	0	0 0.000000e+00	0	0 0.000000e+00
##	CSI044	0.000000e+00	0	0 0.000000e+00	0	0 0.000000e+00
##	CSI055	0.000000e+00	0	0 2.151417e-05	0	0 6.45425e-05
##	CSI065	0.000000e+00	0	0 0.000000e+00	0	0 0.000000e+00
##	CSI076	0.000000e+00	0	0 5.781349e-05	0	0 0.000000e+00
##		0tu04563	0tu04564	0tu04565	0tu04566	0tu04567
##	CSI001	0	0	0 0.000000e+00	0	0
##	CSI012	0	0	0 0.000000e+00	0	0
##	CSI022	0	0	0 0.000000e+00	0	0
##	CSI044	0	0	0 0.000000e+00	0	0
##	CSI055	0	0	0 0.000000e+00	0	0
##	CSI065	0	0	0 0.000000e+00	0	0
##	CSI076	0	0	0 2.890675e-05	0	0
##		0tu04570	0tu04571	0tu04572	0tu04573	0tu04574
##	CSI001	0 0.000000e+00	0.000000e+00	0	0	0
##	CSI012	0 0.000000e+00	1.724971e-05	0	0	0
##	CSI022	0 0.000000e+00	2.151556e-05	0	0	0
##	CSI044	0 0.000000e+00	3.943140e-05	0	0	0
##	CSI055	0 0.000000e+00	0.000000e+00	0	0	0
##	CSI065	0 0.000000e+00	0.000000e+00	0	0	0
##	CSI076	0 5.781349e-05	0.000000e+00	0	0	0
##		0tu04576	0tu04577	0tu04578	0tu04579	0tu04580
##	CSI001	0	0	0	0	0
##	CSI012	0	0	0	0	0
##	CSI022	0	0	0	0	0
##	CSI044	0	0	0	0	0
##	CSI055	0	0	0	0	0
##	CSI065	0	0	0	0	0
##	CSI076	0	0	0	0	0
##		0tu04583	0tu04584	0tu04585	0tu04586	0tu04587
##	CSI001	0.000000e+00	0	1.876261e-04	0	0 0.000000e+00
##	CSI012	0.000000e+00	0	5.174912e-05	0	0 0.000000e+00
##	CSI022	0.000000e+00	0	0.000000e+00	0	0 0.000000e+00
##	CSI044	0.000000e+00	0	0.000000e+00	0	0 0.000000e+00



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## CSI055 0.000000e+00      0 0.000000e+00      0 6.45425e-05
## CSI065 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI076 0.000000e+00      0 0.000000e+00      0 0.000000e+00
##      0tu04588 0tu04589 0tu04590 0tu04591 0tu04592 0tu04593 0tu04594
## CSI001 1.172663e-04      0      0      0      0      0      0
## CSI012 0.000000e+00      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 0.000000e+00      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 5.781349e-05      0      0      0      0      0      0
##      0tu04595      0tu04596 0tu04597 0tu04598 0tu04599      0tu04600
## CSI001      0 0.000000e+00      0      0      0 0.000000e+00
## CSI012      0 1.724971e-05      0      0      0 0.000000e+00
## CSI022      0 0.000000e+00      0      0      0 0.000000e+00
## CSI044      0 0.000000e+00      0      0      0 0.000000e+00
## CSI055      0 0.000000e+00      0      0      0 0.000000e+00
## CSI065      0 0.000000e+00      0      0      0 0.000000e+00
## CSI076      0 0.000000e+00      0      0      0 5.781349e-05
##      0tu04601      0tu04602 0tu04603 0tu04604      0tu04605 0tu04606
## CSI001      0 0.000000e+00      0      0 0.000000e+00      0
## CSI012      0 0.000000e+00      0      0 1.724971e-05      0
## CSI022      0 0.000000e+00      0      0 0.000000e+00      0
## CSI044      0 0.000000e+00      0      0 0.000000e+00      0
## CSI055      0 0.000000e+00      0      0 0.000000e+00      0
## CSI065      0 0.000000e+00      0      0 0.000000e+00      0
## CSI076      0 8.672024e-05      0      0 0.000000e+00      0
##      0tu04607      0tu04608 0tu04609 0tu04610      0tu04611 0tu04612
## CSI001      0 0.000000e+00      0      0 7.035977e-05      0
## CSI012      0 1.724971e-05      0      0 1.724971e-05      0
## CSI022      0 0.000000e+00      0      0 0.000000e+00      0
## CSI044      0 0.000000e+00      0      0 0.000000e+00      0
## CSI055      0 0.000000e+00      0      0 0.000000e+00      0
## CSI065      0 0.000000e+00      0      0 0.000000e+00      0
## CSI076      0 0.000000e+00      0      0 0.000000e+00      0
##      0tu04613      0tu04614 0tu04615 0tu04616 0tu04617 0tu04618
## CSI001 0.0000000000 0.0000000000      0      0      0      0
## CSI012 0.0000000000 0.0000000000      0      0      0      0
## CSI022 0.0000000000 0.0000000000      0      0      0      0
## CSI044 0.0000000000 0.0000000000      0      0      0      0
## CSI055 0.0001505992 0.0000000000      0      0      0      0
## CSI065 0.0000000000 0.0000000000      0      0      0      0
## CSI076 0.0000000000 0.0000000000      0      0      0      0
##      0tu04619      0tu04620      0tu04621      0tu04622      0tu04623
## CSI001      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI012      0 3.277444e-04 0.000000e+00 1.724971e-05 5.174912e-05
## CSI022      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055      0 0.000000e+00 4.302833e-05 0.000000e+00 0.000000e+00
## CSI065      0 0.000000e+00 7.564010e-05 0.000000e+00 0.000000e+00
## CSI076      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##      0tu04624 0tu04625 0tu04626 0tu04627      0tu04628 0tu04629 0tu04630
## CSI001      0      0      0      0 0.000000e+00      0      0
## CSI012      0      0      0      0 1.724971e-05      0      0

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##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu04631	0tu04632	0tu04633	0tu04634	0tu04635	0tu04636	
##	CSI001	0	0.000000e+00	0	0	0.0000000000	0.0000000000	
##	CSI012	0	0.000000e+00	0	0	0.0000000000	0.0000000000	
##	CSI022	0	0.000000e+00	0	0	0.0004948578	0.0000000000	
##	CSI044	0	0.000000e+00	0	0	0.0000000000	0.0000000000	
##	CSI055	0	0.000000e+00	0	0	0.0000000000	0.0000000000	
##	CSI065	0	0.000000e+00	0	0	0.0000000000	0.0001134602	
##	CSI076	0	1.156270e-04	0	0	0.0000000000	0.0000000000	
##		0tu04637	0tu04638	0tu04639	0tu04640	0tu04641	0tu04642	0tu04643
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu04644	0tu04645	0tu04646	0tu04647	0tu04648	0tu04649	0tu04650
##	CSI001	4.690652e-05	0	0	0	0	0	0
##	CSI012	6.899883e-05	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu04651	0tu04652	0tu04653	0tu04654	0tu04655	0tu04656	0tu04657
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu04658	0tu04659	0tu04660	0tu04661	0tu04662	0tu04663	
##	CSI001	0	0	0.000000e+00	2.345326e-05	0.000000e+00	0	
##	CSI012	0	0	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI022	0	0	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI044	0	0	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI055	0	0	4.302833e-05	2.151417e-05	4.302833e-05	0	
##	CSI065	0	0	7.564010e-05	0.000000e+00	0.000000e+00	0	
##	CSI076	0	0	0.000000e+00	0.000000e+00	2.890675e-05	0	
##		0tu04664	0tu04665	0tu04666	0tu04667	0tu04668		
##	CSI001	0	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI012	0	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI022	0	0	0.000000e+00	0.000000e+00	4.303111e-05		
##	CSI044	0	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI055	0	0	2.151417e-05	0.000000e+00	0.000000e+00		
##	CSI065	0	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI076	0	0	0.000000e+00	0.000000e+00	0.000000e+00		
##		0tu04669	0tu04670	0tu04671	0tu04672	0tu04673	0tu04674	

##	CSI001	0.000000e+00	0	0	0	0	0	
##	CSI012	3.449941e-05	0	0	0	0	0	
##	CSI022	0.000000e+00	0	0	0	0	0	
##	CSI044	0.000000e+00	0	0	0	0	0	
##	CSI055	0.000000e+00	0	0	0	0	0	
##	CSI065	0.000000e+00	0	0	0	0	0	
##	CSI076	0.000000e+00	0	0	0	0	0	
##		0tu04675	0tu04676	0tu04677	0tu04678	0tu04679	0tu04680	
##	CSI001	0.000000e+00	0	0.00000e+00	0	0	0	
##	CSI012	0.000000e+00	0	0.00000e+00	0	0	0	
##	CSI022	2.151556e-05	0	0.00000e+00	0	0	0	
##	CSI044	0.000000e+00	0	0.00000e+00	0	0	0	
##	CSI055	0.000000e+00	0	6.45425e-05	0	0	0	
##	CSI065	0.000000e+00	0	0.00000e+00	0	0	0	
##	CSI076	0.000000e+00	0	0.00000e+00	0	0	0	
##		0tu04681	0tu04682	0tu04683	0tu04684	0tu04685	0tu04686	0tu04687
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	8.605667e-05	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		0tu04688	0tu04689	0tu04690	0tu04691	0tu04692	0tu04693	
##	CSI001	2.345326e-05	0	0	0	0	0.000000e+00	
##	CSI012	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI022	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI044	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI055	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI076	0.000000e+00	0	0	0	0	0.000000e+00	
##		0tu04694	0tu04695	0tu04696	0tu04697	0tu04698	0tu04699	0tu04700
##	CSI001	0	0	0	2.345326e-05	0	0	0
##	CSI012	0	0	0	5.174912e-05	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		0tu04701	0tu04702	0tu04703	0tu04704	0tu04705	0tu04706	0tu04707
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu04708	0tu04709	0tu04710	0tu04711	0tu04712	0tu04713	
##	CSI001	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI012	0	0	0	0.000000e+00	1.724971e-05	1.724971e-05	
##	CSI022	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI055	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	

##	CSI076	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##		0tu04714	0tu04715	0tu04716	0tu04717	0tu04718	0tu04719
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		0tu04721	0tu04722	0tu04723	0tu04724	0tu04725	0tu04726
##	CSI001	0	0.000000e+00	0	0	0	0
##	CSI012	0	1.724971e-05	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0
##		0tu04728	0tu04729	0tu04730	0tu04731	0tu04732	0tu04733
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu04735	0tu04736	0tu04737	0tu04738	0tu04739	0tu04740
##	CSI001	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI012	0	1.724971e-05	0	0	0.000000e+00	0
##	CSI022	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI044	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI055	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI065	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI076	0	0.000000e+00	0	0	0.000000e+00	0
##		0tu04741	0tu04742	0tu04743	0tu04744	0tu04745	0tu04746
##	CSI001	0	0.000000e+00	0	2.345326e-05	0.000000e+00	0
##	CSI012	0	0.000000e+00	0	1.724971e-05	0.000000e+00	0
##	CSI022	0	0.000000e+00	0	2.151556e-05	0.000000e+00	0
##	CSI044	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI055	0	0.000000e+00	0	0.000000e+00	2.151417e-05	0
##	CSI065	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI076	0	0.000000e+00	0	2.890675e-05	8.672024e-05	0
##		0tu04747	0tu04748	0tu04749	0tu04750	0tu04751	0tu04752
##	CSI001	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI012	0.000000e+00	5.174912e-05	0	0	3.449941e-05	0
##	CSI022	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI055	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI065	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI076	8.672024e-05	0.000000e+00	0	0	0.000000e+00	0
##		0tu04753	0tu04754	0tu04755	0tu04756	0tu04757	0tu04758
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI012	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0

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## CSI055 0.000000e+00      0      0      0 0.000000e+00      0
## CSI065 0.000000e+00      0      0      0 0.000000e+00      0
## CSI076 0.000000e+00      0      0      0 0.000000e+00      0
##      0tu04759 0tu04760 0tu04761 0tu04762 0tu04763      0tu04764
## CSI001 0.000000e+00      0      0      0      0 4.690652e-05
## CSI012 0.000000e+00      0      0      0      0 0.000000e+00
## CSI022 0.000000e+00      0      0      0      0 0.000000e+00
## CSI044 0.000000e+00      0      0      0      0 0.000000e+00
## CSI055 2.151417e-05      0      0      0      0 0.000000e+00
## CSI065 0.000000e+00      0      0      0      0 0.000000e+00
## CSI076 2.890675e-05      0      0      0      0 0.000000e+00
##      0tu04765 0tu04766 0tu04767      0tu04768      0tu04769 0tu04770
## CSI001 0.0000000000      0      0 0.000000e+00 0.000000e+00      0
## CSI012 0.0000000000      0      0 0.000000e+00 1.724971e-05      0
## CSI022 0.0000000000      0      0 0.000000e+00 0.000000e+00      0
## CSI044 0.0000000000      0      0 0.000000e+00 0.000000e+00      0
## CSI055 0.0000000000      0      0 0.000000e+00 0.000000e+00      0
## CSI065 0.0000000000      0      0 0.000000e+00 0.000000e+00      0
## CSI076 0.0000000000      0      0 0.000000e+00 0.000000e+00      0
##      0tu04771 0tu04772 0tu04773 0tu04774 0tu04775 0tu04776 0tu04777
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu04778 0tu04779      0tu04780      0tu04781 0tu04782
## CSI001 0.000000e+00      0 0.000000e+00 4.690652e-05      0
## CSI012 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI022 0.000000e+00      0 2.151556e-05 0.000000e+00      0
## CSI044 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI055 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI065 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI076 0.000000e+00      0 0.000000e+00 0.000000e+00      0
##      0tu04783      0tu04784 0tu04785      0tu04786 0tu04787
## CSI001 0.000000e+00 0.0000000000      0 0.000000e+00      0
## CSI012 3.449941e-05 0.0000000000      0 0.000000e+00      0
## CSI022 0.000000e+00 0.0000000000      0 0.000000e+00      0
## CSI044 0.000000e+00 0.0000000000      0 0.000000e+00      0
## CSI055 0.000000e+00 0.0000000000      0 2.151417e-05      0
## CSI065 0.000000e+00 0.0000000000      0 0.000000e+00      0
## CSI076 0.000000e+00 0.0000000000      0 0.000000e+00      0
##      0tu04788 0tu04789 0tu04790 0tu04791      0tu04792 0tu04793
## CSI001 0.000000e+00      0      0      0 0.000000e+00      0
## CSI012 0.000000e+00      0      0      0 0.000000e+00      0
## CSI022 0.000000e+00      0      0      0 2.151556e-05      0
## CSI044 0.000000e+00      0      0      0 0.000000e+00      0
## CSI055 0.000000e+00      0      0      0 0.000000e+00      0
## CSI065 0.000000e+00      0      0      0 7.564010e-05      0
## CSI076 0.000000e+00      0      0      0 0.000000e+00      0
##      0tu04794 0tu04795      0tu04796      0tu04797      0tu04798
## CSI001      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI012      0      0 0.000000e+00 0.000000e+00 0.000000e+00

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## CSI022      0      0 2.151556e-05 0.000000e+00 0.000000e+00
## CSI044      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI065      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076      0      0 0.000000e+00 0.000000e+00 0.000000e+00
##      0tu04799 0tu04800      0tu04801 0tu04802      0tu04803
## CSI001 0.0004925184      0 0.000000e+00      0 4.690652e-05
## CSI012 0.0000000000      0 0.000000e+00      0 5.174912e-05
## CSI022 0.0000000000      0 0.000000e+00      0 0.000000e+00
## CSI044 0.0000000000      0 0.000000e+00      0 0.000000e+00
## CSI055 0.0000000000      0 0.000000e+00      0 0.000000e+00
## CSI065 0.0000000000      0 0.000000e+00      0 0.000000e+00
## CSI076 0.0000000000      0 0.000000e+00      0 0.000000e+00
##      0tu04804 0tu04805 0tu04806      0tu04807 0tu04808 0tu04809
## CSI001 0.000000e+00      0      0 0.000000e+00      0      0
## CSI012 0.000000e+00      0      0 3.449941e-05      0      0
## CSI022 0.000000e+00      0      0 4.303111e-05      0      0
## CSI044 0.000000e+00      0      0 0.000000e+00      0      0
## CSI055 2.151417e-05      0      0 0.000000e+00      0      0
## CSI065 0.000000e+00      0      0 0.000000e+00      0      0
## CSI076 0.000000e+00      0      0 0.000000e+00      0      0
##      0tu04810 0tu04811 0tu04812 0tu04813 0tu04814 0tu04815 0tu04816
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu04817 0tu04818 0tu04819 0tu04820      0tu04821 0tu04822 0tu04823
## CSI001      0      0      0      0 0.000000e+00      0      0
## CSI012      0      0      0      0 0.000000e+00      0      0
## CSI022      0      0      0      0 0.000000e+00      0      0
## CSI044      0      0      0      0 0.000000e+00      0      0
## CSI055      0      0      0      0 2.151417e-05      0      0
## CSI065      0      0      0      0 0.000000e+00      0      0
## CSI076      0      0      0      0 0.000000e+00      0      0
##      0tu04824 0tu04825      0tu04826 0tu04827 0tu04828 0tu04829 0tu04830
## CSI001      0      0 0.000000e+00      0      0      0      0
## CSI012      0      0 0.000000e+00      0      0      0      0
## CSI022      0      0 0.000000e+00      0      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0      0
## CSI055      0      0 0.000000e+00      0      0      0      0
## CSI065      0      0 0.000000e+00      0      0      0      0
## CSI076      0      0 3.179742e-04      0      0      0      0
##      0tu04831      0tu04832 0tu04833 0tu04834 0tu04835 0tu04836
## CSI001 0.000000e+00 0.000000e+00      0      0      0      0
## CSI012 1.724971e-05 0.000000e+00      0      0      0      0
## CSI022 2.151556e-05 0.000000e+00      0      0      0      0
## CSI044 0.000000e+00 0.000000e+00      0      0      0      0
## CSI055 0.000000e+00 0.000000e+00      0      0      0      0
## CSI065 0.000000e+00 0.000000e+00      0      0      0      0
## CSI076 0.000000e+00 0.000000e+00      0      0      0      0
##      0tu04837      0tu04838      0tu04839      0tu04840      0tu04841

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## CSI001      0 0.000000e+00 0.0000000000 4.456119e-04 0.000000e+00
## CSI012      0 0.000000e+00 0.0000000000 0.000000e+00 0.000000e+00
## CSI022      0 0.000000e+00 0.0000000000 0.000000e+00 0.000000e+00
## CSI044      0 0.000000e+00 0.0000000000 0.000000e+00 1.774413e-04
## CSI055      0 0.000000e+00 0.0002151417 0.000000e+00 0.000000e+00
## CSI065      0 0.000000e+00 0.0000000000 0.000000e+00 0.000000e+00
## CSI076      0 0.000000e+00 0.0000000000 0.000000e+00 0.000000e+00
##           0tu04842 0tu04843 0tu04844      0tu04845      0tu04846 0tu04847
## CSI001 0.000000e+00      0      0 0.000000e+00 0.0000000000      0
## CSI012 0.000000e+00      0      0 0.000000e+00 0.0000000000      0
## CSI022 0.000000e+00      0      0 0.000000e+00 0.0000000000      0
## CSI044 0.000000e+00      0      0 0.000000e+00 0.0000000000      0
## CSI055 2.151417e-05      0      0 0.000000e+00 0.0000000000      0
## CSI065 0.000000e+00      0      0 0.000000e+00 0.0000000000      0
## CSI076 0.000000e+00      0      0 0.000000e+00 0.0000000000      0
##           0tu04848      0tu04849 0tu04850 0tu04851      0tu04852      0tu04853
## CSI001      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI012      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI022      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI044      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI055      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI065      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI076      0 0.000000e+00      0      0 0.000000e+00 5.781349e-05
##           0tu04854 0tu04855 0tu04856 0tu04857      0tu04858 0tu04859
## CSI001 0.000000e+00      0      0      0 0.000000e+00      0
## CSI012 0.000000e+00      0      0      0 1.724971e-05      0
## CSI022 0.000000e+00      0      0      0 2.151556e-05      0
## CSI044 0.000000e+00      0      0      0 0.000000e+00      0
## CSI055 0.000000e+00      0      0      0 0.000000e+00      0
## CSI065 0.000000e+00      0      0      0 0.000000e+00      0
## CSI076 0.000000e+00      0      0      0 0.000000e+00      0
##           0tu04860 0tu04861 0tu04862      0tu04863 0tu04864 0tu04865
## CSI001 0.000000e+00      0      0 9.381303e-05      0      0
## CSI012 5.174912e-05      0      0 1.724971e-04      0      0
## CSI022 0.000000e+00      0      0 0.000000e+00      0      0
## CSI044 0.000000e+00      0      0 0.000000e+00      0      0
## CSI055 0.000000e+00      0      0 0.000000e+00      0      0
## CSI065 0.000000e+00      0      0 0.000000e+00      0      0
## CSI076 0.000000e+00      0      0 0.000000e+00      0      0
##           0tu04866 0tu04867 0tu04868 0tu04869 0tu04870      0tu04871 0tu04872
## CSI001      0      0      0      0      0 0.000000e+00      0
## CSI012      0      0      0      0      0 0.000000e+00      0
## CSI022      0      0      0      0      0 0.000000e+00      0
## CSI044      0      0      0      0      0 0.000000e+00      0
## CSI055      0      0      0      0      0 0.000000e+00      0
## CSI065      0      0      0      0      0 0.000000e+00      0
## CSI076      0      0      0      0      0 0.000000e+00      0
##           0tu04873 0tu04874 0tu04875 0tu04876      0tu04877 0tu04878
## CSI001 0.0000000000      0      0      0 4.690652e-05      0
## CSI012 0.0002414959      0      0      0 6.899883e-05      0
## CSI022 0.0000000000      0      0      0 0.000000e+00      0
## CSI044 0.0000000000      0      0      0 0.000000e+00      0
## CSI055 0.0000000000      0      0      0 0.000000e+00      0
## CSI065 0.0000000000      0      0      0 0.000000e+00      0

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##	CSI076	0.0000000000	0	0	0	0.000000e+00	0
##		0tu04879	0tu04880	0tu04881	0tu04882	0tu04883	0tu04884 0tu04885
##	CSI001	0	0	0	0	0 0.000000e+00	0
##	CSI012	0	0	0	0	0 3.449941e-05	0
##	CSI022	0	0	0	0	0 0.000000e+00	0
##	CSI044	0	0	0	0	0 0.000000e+00	0
##	CSI055	0	0	0	0	0 3.657408e-04	0
##	CSI065	0	0	0	0	0 0.000000e+00	0
##	CSI076	0	0	0	0	0 0.000000e+00	0
##		0tu04886	0tu04887	0tu04888	0tu04889	0tu04890	0tu04891 0tu04892
##	CSI001	0	0	0.0000000000	0	0	0
##	CSI012	0	0	0.0000000000	0	0	0
##	CSI022	0	0	0.0000000000	0	0	0
##	CSI044	0	0	0.0000000000	0	0	0
##	CSI055	0	0	0.0000000000	0	0	0
##	CSI065	0	0	0.0000000000	0	0	0
##	CSI076	0	0	0.0000000000	0	0	0
##		0tu04893	0tu04894	0tu04895	0tu04896	0tu04897	0tu04898
##	CSI001	0	4.690652e-05	0	0	0	0.000000e+00
##	CSI012	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI022	0	4.303111e-05	0	0	0	0.000000e+00
##	CSI044	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI055	0	0.000000e+00	0	0	0	6.454250e-05
##	CSI065	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI076	0	0.000000e+00	0	0	0	0.000000e+00
##		0tu04899	0tu04900	0tu04901	0tu04902	0tu04903	0tu04904
##	CSI001	0	0	0 0.000000e+00	0	0	0
##	CSI012	0	0	0 0.000000e+00	0	0	0
##	CSI022	0	0	0 0.000000e+00	0	0	0
##	CSI044	0	0	0 0.000000e+00	0	0	0
##	CSI055	0	0	0 2.151417e-05	0	0	0
##	CSI065	0	0	0 0.000000e+00	0	0	0
##	CSI076	0	0	0 0.000000e+00	0	0	0
##		0tu04905	0tu04906	0tu04907	0tu04908	0tu04909	0tu04910
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	8.672024e-05	0	0	0	0	0
##		0tu04911	0tu04912	0tu04913	0tu04914	0tu04915	0tu04916
##	CSI001	0.000000e+00	0	2.345326e-05	0	0	3.283456e-04
##	CSI012	6.899883e-05	0	5.174912e-05	0	0	1.724971e-05
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##		0tu04917	0tu04918	0tu04919	0tu04920	0tu04921	0tu04922 0tu04923
##	CSI001	0	0	0	0	0 0.000000e+00	0
##	CSI012	0	0	0	0	0 0.000000e+00	0
##	CSI022	0	0	0	0	0 4.303111e-05	0
##	CSI044	0	0	0	0	0 0.000000e+00	0



##	CSI055	0	0	0	0	0 0.000000e+00	0
##	CSI065	0	0	0	0	0 0.000000e+00	0
##	CSI076	0	0	0	0	0 0.000000e+00	0
##		0tu04924	0tu04925	0tu04926	0tu04927	0tu04928	0tu04929
##	CSI001	0.000000e+00	0	0	0	0 0.000000e+00	0
##	CSI012	0.000000e+00	0	0	0	0 0.000000e+00	0
##	CSI022	0.000000e+00	0	0	0	0 0.000000e+00	0
##	CSI044	0.000000e+00	0	0	0	0 0.000000e+00	0
##	CSI055	0.000000e+00	0	0	0	0 0.000000e+00	0
##	CSI065	0.000000e+00	0	0	0	0 0.000000e+00	0
##	CSI076	0.000000e+00	0	0	0	0 0.000000e+00	0
##		0tu04930	0tu04931	0tu04932	0tu04933	0tu04934	0tu04935
##	CSI001	0.000000e+00	0	0	0	2.345326e-05	0.000000e+00
##	CSI012	1.724971e-05	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI022	0.000000e+00	0	0	0	2.151556e-05	0.000000e+00
##	CSI044	0.000000e+00	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI055	0.000000e+00	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI065	0.000000e+00	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI076	0.000000e+00	0	0	0	0 0.000000e+00	2.890675e-05
##		0tu04936	0tu04937	0tu04938	0tu04939	0tu04940	0tu04941
##	CSI001	0	0	0	0 0.000000e+00	0 0.000000e+00	0
##	CSI012	0	0	0	3.449941e-05	0 0.000000e+00	0
##	CSI022	0	0	0	0 0.000000e+00	0 0.000000e+00	0
##	CSI044	0	0	0	0 0.000000e+00	0 0.000000e+00	0
##	CSI055	0	0	0	0 0.000000e+00	0 0.000000e+00	0
##	CSI065	0	0	0	0 0.000000e+00	0 0.000000e+00	0
##	CSI076	0	0	0	0 0.000000e+00	0 0.000000e+00	0
##		0tu04942	0tu04943	0tu04944	0tu04945	0tu04946	0tu04947 0tu04948
##	CSI001	0	0	0	0	0 0.000000e+00	0
##	CSI012	0	0	0	0	0 0.000000e+00	0
##	CSI022	0	0	0	0	0 0.000000e+00	0
##	CSI044	0	0	0	0	0 0.000000e+00	0
##	CSI055	0	0	0	0	0 0.000000e+00	0
##	CSI065	0	0	0	0	0 0.000000e+00	0
##	CSI076	0	0	0	0	0 0.000000e+00	0
##		0tu04949	0tu04950	0tu04951	0tu04952	0tu04953	0tu04954
##	CSI001	0	0	0	0	0 0.000000e+00	0.00000e+00
##	CSI012	0	0	0	0	1.724971e-05	0.00000e+00
##	CSI022	0	0	0	0	0 0.000000e+00	0.00000e+00
##	CSI044	0	0	0	0	0 0.000000e+00	1.97157e-05
##	CSI055	0	0	0	0	0 0.000000e+00	0.00000e+00
##	CSI065	0	0	0	0	0 0.000000e+00	0.00000e+00
##	CSI076	0	0	0	0	0 0.000000e+00	0.00000e+00
##		0tu04955	0tu04956	0tu04957	0tu04958	0tu04959	0tu04960
##	CSI001	0	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI012	0	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI022	0	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI044	0	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI055	0	0	0	0	0 0.000000e+00	3.011983e-04
##	CSI065	0	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI076	0	0	0	0	4.336012e-04	0.000000e+00
##		0tu04961	0tu04962	0tu04963	0tu04964	0tu04965	0tu04966 0tu04967
##	CSI001	0	0	0	0 0.000000e+00	0	0 0
##	CSI012	0	0	0	0 0.000000e+00	0	0 0

##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	3.782005e-05	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		0tu04968	0tu04969	0tu04970	0tu04971	0tu04972	0tu04973	
##	CSI001	0	0	0.0000000000	0.000000e+00	0	0.000000e+00	
##	CSI012	0	0	0.0000000000	3.449941e-05	0	0.000000e+00	
##	CSI022	0	0	0.0000000000	0.000000e+00	0	0.000000e+00	
##	CSI044	0	0	0.0000000000	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0	0.0000000000	0.000000e+00	0	0.000000e+00	
##	CSI065	0	0	0.0000000000	0.000000e+00	0	0.000000e+00	
##	CSI076	0	0	0.000115627	0.000000e+00	0	0.000000e+00	
##		0tu04974	0tu04975	0tu04976	0tu04977	0tu04978	0tu04979	0tu04980
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu04981	0tu04982	0tu04983	0tu04984	0tu04985	0tu04986	
##	CSI001	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI012	0.000000e+00	0	0	6.899883e-05	0	0	
##	CSI022	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI055	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI076	5.781349e-05	0	0	0.000000e+00	0	0	
##		0tu04987	0tu04988	0tu04989	0tu04990	0tu04991	0tu04992	
##	CSI001	0	0	0	0.000000e+00	0	0	
##	CSI012	0	0	0	5.174912e-05	0	0	
##	CSI022	0	0	0	0.000000e+00	0	0	
##	CSI044	0	0	0	0.000000e+00	0	0	
##	CSI055	0	0	0	0.000000e+00	0	0	
##	CSI065	0	0	0	0.000000e+00	0	0	
##	CSI076	0	0	0	0.000000e+00	0	0	
##		0tu04993	0tu04994	0tu04995	0tu04996	0tu04997	0tu04998	
##	CSI001	0.000000e+00	0	0	0	0	0	
##	CSI012	0.000000e+00	0	0	0	0	0	
##	CSI022	0.000000e+00	0	0	0	0	0	
##	CSI044	0.000000e+00	0	0	0	0	0	
##	CSI055	0.000000e+00	0	0	0	0	0	
##	CSI065	0.000000e+00	0	0	0	0	0	
##	CSI076	0.000000e+00	0	0	0	0	0	
##		0tu04999	0tu05000	0tu05001	0tu05002	0tu05003		
##	CSI001	0.000000e+00	0	0	0.000000e+00	0.00000e+00		
##	CSI012	0.000000e+00	0	0	0.000000e+00	0.00000e+00		
##	CSI022	0.000000e+00	0	0	0.000000e+00	0.00000e+00		
##	CSI044	0.000000e+00	0	0	0.000000e+00	1.97157e-05		
##	CSI055	0.000000e+00	0	0	2.151417e-05	0.00000e+00		
##	CSI065	0.000000e+00	0	0	0.000000e+00	0.00000e+00		
##	CSI076	0.000000e+00	0	0	0.000000e+00	0.00000e+00		
##		0tu05004	0tu05005	0tu05006	0tu05007	0tu05008		

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## CSI001 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI012 0.000000e+00 0.000000e+00 1.724971e-05 3.449941e-05 0.000000e+00
## CSI022 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI055 4.302833e-05 0.000000e+00 0.000000e+00 0.000000e+00 2.151417e-05
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 5.781349e-05
##      0tu05009 0tu05010 0tu05011 0tu05012 0tu05013      0tu05014 0tu05015
## CSI001      0      0      0      0      0 0.000000e+00      0
## CSI012      0      0      0      0      0 0.000000e+00      0
## CSI022      0      0      0      0      0 0.000000e+00      0
## CSI044      0      0      0      0      0 0.000000e+00      0
## CSI055      0      0      0      0      0 0.000000e+00      0
## CSI065      0      0      0      0      0 0.000000e+00      0
## CSI076      0      0      0      0      0 0.000000e+00      0
##      0tu05016 0tu05017      0tu05018 0tu05019 0tu05020 0tu05021 0tu05022
## CSI001      0      0 0.000000e+00      0      0      0      0
## CSI012      0      0 0.000000e+00      0      0      0      0
## CSI022      0      0 2.151556e-05      0      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0      0
## CSI055      0      0 0.000000e+00      0      0      0      0
## CSI065      0      0 0.000000e+00      0      0      0      0
## CSI076      0      0 0.000000e+00      0      0      0      0
##      0tu05023 0tu05024 0tu05025 0tu05026 0tu05027 0tu05028 0tu05029
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu05030 0tu05031      0tu05032 0tu05033      0tu05034 0tu05035
## CSI001      0      0 0.000000e+00      0 0.000000e+00      0
## CSI012      0      0 0.000000e+00      0 0.000000e+00      0
## CSI022      0      0 0.000000e+00      0 0.000000e+00      0
## CSI044      0      0 9.857850e-05      0 0.000000e+00      0
## CSI055      0      0 0.000000e+00      0 0.000000e+00      0
## CSI065      0      0 3.782005e-05      0 0.000000e+00      0
## CSI076      0      0 0.000000e+00      0 8.672024e-05      0
##      0tu05036      0tu05037 0tu05038      0tu05039 0tu05040 0tu05041
## CSI001      0 1.172663e-04      0 0.000000e+00      0      0
## CSI012      0 0.000000e+00      0 5.174912e-05      0      0
## CSI022      0 0.000000e+00      0 0.000000e+00      0      0
## CSI044      0 0.000000e+00      0 0.000000e+00      0      0
## CSI055      0 0.000000e+00      0 0.000000e+00      0      0
## CSI065      0 0.000000e+00      0 0.000000e+00      0      0
## CSI076      0 0.000000e+00      0 0.000000e+00      0      0
##      0tu05042 0tu05043 0tu05044      0tu05045 0tu05046 0tu05047 0tu05048
## CSI001      0      0      0 0.000000e+00      0      0      0
## CSI012      0      0      0 0.000000e+00      0      0      0
## CSI022      0      0      0 0.000000e+00      0      0      0
## CSI044      0      0      0 0.000000e+00      0      0      0
## CSI055      0      0      0 0.000000e+00      0      0      0
## CSI065      0      0      0 0.000000e+00      0      0      0

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## CSI076	0	0	0 2.890675e-05	0	0	0
##	0tu05049	0tu05050	0tu05051	0tu05052	0tu05053	0tu05054
## CSI001	0.000000e+00	1.172663e-04	0	0	0	1.876261e-04
## CSI012	0.000000e+00	5.174912e-05	0	0	0	1.724971e-05
## CSI022	2.151556e-05	0.000000e+00	0	0	0	0.000000e+00
## CSI044	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
## CSI055	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
## CSI065	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
## CSI076	0.000000e+00	0.000000e+00	0	0	0	5.781349e-05
##	0tu05055	0tu05056	0tu05057	0tu05058	0tu05059	0tu05060
## CSI001	0 0.000000e+00		0 0.000000e+00		0	0
## CSI012	0 0.000000e+00		0 0.000000e+00		0	0
## CSI022	0 4.303111e-05		0 0.000000e+00		0	0
## CSI044	0 0.000000e+00		0 0.000000e+00		0	0
## CSI055	0 0.000000e+00		0 0.000000e+00		0	0
## CSI065	0 0.000000e+00		0 0.000000e+00		0	0
## CSI076	0 0.000000e+00		0 5.781349e-05		0	0
##	0tu05061	0tu05062	0tu05063	0tu05064	0tu05065	0tu05066
## CSI001	0 2.345326e-05		0	0 0.0000000000		0
## CSI012	0 0.000000e+00		0	0 0.0000000000		0
## CSI022	0 0.000000e+00		0	0 0.0000000000		0
## CSI044	0 0.000000e+00		0	0 0.0000000000		0
## CSI055	0 0.000000e+00		0	0 0.0003442267		0
## CSI065	0 0.000000e+00		0	0 0.0000000000		0
## CSI076	0 2.890675e-05		0	0 0.0000000000		0
##	0tu05067	0tu05068	0tu05069	0tu05070	0tu05071	
## CSI001	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
## CSI012	1.724971e-05	0.000000e+00	6.899883e-05	0	0	
## CSI022	0.000000e+00	2.151556e-05	8.606222e-05	0	0	
## CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
## CSI055	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
## CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
## CSI076	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	0tu05072	0tu05073	0tu05074	0tu05075	0tu05076	0tu05077
## CSI001	0.000000e+00	0.0000000000	2.345326e-05	0	0	0
## CSI012	0.000000e+00	0.0000000000	0.000000e+00	0	0	0
## CSI022	0.000000e+00	0.0000000000	0.000000e+00	0	0	0
## CSI044	0.000000e+00	0.0000000000	0.000000e+00	0	0	0
## CSI055	0.000000e+00	0.0000000000	0.000000e+00	0	0	0
## CSI065	0.000000e+00	0.0000000000	0.000000e+00	0	0	0
## CSI076	0.000000e+00	0.0004625079	0.000000e+00	0	0	0
##	0tu05078	0tu05079	0tu05080	0tu05081	0tu05082	0tu05083
## CSI001	2.345326e-05	0 0.000000e+00		0 4.690652e-05		0
## CSI012	3.449941e-05	0 3.449941e-05		0 0.000000e+00		0
## CSI022	2.151556e-05	0 0.000000e+00		0 0.000000e+00		0
## CSI044	0.000000e+00	0 0.000000e+00		0 0.000000e+00		0
## CSI055	0.000000e+00	0 0.000000e+00		0 6.454250e-05		0
## CSI065	0.000000e+00	0 0.000000e+00		0 0.000000e+00		0
## CSI076	0.000000e+00	0 0.000000e+00		0 0.000000e+00		0
##	0tu05084	0tu05085	0tu05086	0tu05087	0tu05088	0tu05089
## CSI001	0	0	0	0	0 0.000000e+00	
## CSI012	0	0	0	0	0 1.724971e-05	
## CSI022	0	0	0	0	0 4.303111e-05	
## CSI044	0	0	0	0	0 0.000000e+00	

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## CSI055      0      0      0      0      0 0.000000e+00
## CSI065      0      0      0      0      0 0.000000e+00
## CSI076      0      0      0      0      0 0.000000e+00
##      0tu05090 0tu05091      0tu05092 0tu05093 0tu05094      0tu05095
## CSI001 0.0000000000      0 0.000000e+00      0      0 0.000000e+00
## CSI012 0.0000000000      0 0.000000e+00      0      0 3.449941e-05
## CSI022 0.0001075778      0 0.000000e+00      0      0 0.000000e+00
## CSI044 0.0000000000      0 0.000000e+00      0      0 0.000000e+00
## CSI055 0.0000000000      0 2.151417e-05      0      0 0.000000e+00
## CSI065 0.0000000000      0 0.000000e+00      0      0 0.000000e+00
## CSI076 0.0000000000      0 0.000000e+00      0      0 0.000000e+00
##      0tu05096 0tu05097 0tu05098      0tu05099      0tu05100 0tu05101
## CSI001      0      0      0 2.345326e-05 0.000000e+00      0
## CSI012      0      0      0 0.000000e+00 3.449941e-05      0
## CSI022      0      0      0 8.606222e-05 0.000000e+00      0
## CSI044      0      0      0 0.000000e+00 0.000000e+00      0
## CSI055      0      0      0 0.000000e+00 0.000000e+00      0
## CSI065      0      0      0 0.000000e+00 0.000000e+00      0
## CSI076      0      0      0 0.000000e+00 0.000000e+00      0
##      0tu05102 0tu05103 0tu05104 0tu05105 0tu05106      0tu05107
## CSI001      0      0      0      0      0 0.000000e+00
## CSI012      0      0      0      0      0 1.724971e-05
## CSI022      0      0      0      0      0 0.000000e+00
## CSI044      0      0      0      0      0 0.000000e+00
## CSI055      0      0      0      0      0 0.000000e+00
## CSI065      0      0      0      0      0 0.000000e+00
## CSI076      0      0      0      0      0 0.000000e+00
##      0tu05108      0tu05109      0tu05110 0tu05111 0tu05112 0tu05113
## CSI001 0.000000e+00 0.000000e+00 0.000000000      0      0      0
## CSI012 0.000000e+00 0.000000e+00 0.000000000      0      0      0
## CSI022 0.000000e+00 0.000000e+00 0.000000000      0      0      0
## CSI044 0.000000e+00 0.000000e+00 0.000000000      0      0      0
## CSI055 4.302833e-05 0.000000e+00 0.000387255      0      0      0
## CSI065 0.000000e+00 3.782005e-05 0.000000000      0      0      0
## CSI076 0.000000e+00 0.000000e+00 0.000000000      0      0      0
##      0tu05114      0tu05115 0tu05116 0tu05117 0tu05118 0tu05119
## CSI001 0.000000e+00 0.000000e+00      0      0      0      0
## CSI012 0.000000e+00 1.724971e-05      0      0      0      0
## CSI022 0.000000e+00 3.012178e-04      0      0      0      0
## CSI044 0.000000e+00 0.000000e+00      0      0      0      0
## CSI055 0.000000e+00 0.000000e+00      0      0      0      0
## CSI065 0.000000e+00 0.000000e+00      0      0      0      0
## CSI076 0.000000e+00 0.000000e+00      0      0      0      0
##      0tu05120 0tu05121 0tu05122      0tu05123 0tu05124      0tu05125
## CSI001      0      0      0 0.000000e+00      0 0.000000e+00
## CSI012      0      0      0 0.000000e+00      0 0.000000e+00
## CSI022      0      0      0 0.000000e+00      0 0.000000e+00
## CSI044      0      0      0 0.000000e+00      0 0.000000e+00
## CSI055      0      0      0 0.000000e+00      0 0.000000e+00
## CSI065      0      0      0 0.000000e+00      0 0.000000e+00
## CSI076      0      0      0 0.000000e+00      0 0.000000e+00
##      0tu05126 0tu05127 0tu05128 0tu05129      0tu05130 0tu05131
## CSI001      0      0      0      0 0.000000e+00      0
## CSI012      0      0      0      0 0.000000e+00      0

```

##	CSI022	0	0	0	0	0.00000e+00	0
##	CSI044	0	0	0	0	0.00000e+00	0
##	CSI055	0	0	0	0	0.00000e+00	0
##	CSI065	0	0	0	0	7.56401e-05	0
##	CSI076	0	0	0	0	0.00000e+00	0
##		0tu05132	0tu05133	0tu05134	0tu05135	0tu05136	0tu05137
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI012	0.000000e+00	0	0	0	1.724971e-05	0.000000e+00
##	CSI022	2.151556e-05	0	0	0	0.000000e+00	0.000000e+00
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI076	0.000000e+00	0	0	0	0.000000e+00	5.781349e-05
##		0tu05138	0tu05139	0tu05140	0tu05141	0tu05142	0tu05143
##	CSI001	1.876261e-04	0	0	0	0.0000000000	0
##	CSI012	0.000000e+00	0	0	0	0.0000000000	0
##	CSI022	0.000000e+00	0	0	0	0.0000000000	0
##	CSI044	0.000000e+00	0	0	0	0.0000000000	0
##	CSI055	0.000000e+00	0	0	0	0.0000000000	0
##	CSI065	0.000000e+00	0	0	0	0.0000000000	0
##	CSI076	0.000000e+00	0	0	0	0.0000000000	0
##		0tu05144	0tu05145	0tu05146	0tu05147	0tu05148	0tu05149
##	CSI001	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	1.724971e-05	0
##	CSI022	0	0	0	0	2.151556e-05	0
##	CSI044	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0.000000e+00	0
##		0tu05150	0tu05151	0tu05152	0tu05153	0tu05154	0tu05155
##	CSI001	0.00000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI012	0.00000e+00	1.724971e-05	0	0.000000e+00	0	0
##	CSI022	0.00000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI044	0.00000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI055	0.00000e+00	0.000000e+00	0	2.151417e-05	0	0
##	CSI065	0.00000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI076	0.00000e+00	0.000000e+00	0	0.000000e+00	0	0
##		0tu05156	0tu05157	0tu05158	0tu05159	0tu05160	0tu05161
##	CSI001	0	0	0	0	0.0000000000	0.000000e+00
##	CSI012	0	0	0	0	0.0000000000	0.000000e+00
##	CSI022	0	0	0	0	0.0000000000	6.454667e-05
##	CSI044	0	0	0	0	0.0000000000	0.000000e+00
##	CSI055	0	0	0	0	0.0000000000	0.000000e+00
##	CSI065	0	0	0	0	0.0000000000	0.000000e+00
##	CSI076	0	0	0	0	0.0000000000	0.000000e+00
##		0tu05162	0tu05163	0tu05164	0tu05165	0tu05166	
##	CSI001	0.000000e+00	0.000000e+00	0	0	0.0000000000	
##	CSI012	0.000000e+00	0.000000e+00	0	0	0.0000000000	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0.0000000000	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0.0000000000	
##	CSI055	0.000000e+00	0.000000e+00	0	0	0.0003657408	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0.0000000000	
##	CSI076	5.781349e-05	8.672024e-05	0	0	0.0000000000	
##		0tu05167	0tu05168	0tu05169	0tu05170	0tu05171	0tu05172

##	CSI001	2.345326e-05	0.000000e+00	0	0	0	0
##	CSI012	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI065	0.000000e+00	2.647404e-04	0	0	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu05173	0tu05174	0tu05175	0tu05176	0tu05177	0tu05178
##	CSI001	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI012	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI022	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI044	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI055	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI065	0	7.56401e-05	0	0	0.000000e+00	0
##	CSI076	0	0.000000e+00	0	0	2.890675e-05	0
##		0tu05179	0tu05180	0tu05181	0tu05182	0tu05183	0tu05184
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI022	2.151556e-05	0	2.151556e-05	0	0	0
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0
##		0tu05185	0tu05186	0tu05187	0tu05188	0tu05189	0tu05190
##	CSI001	0	0	0	0	0.0000000000	0
##	CSI012	0	0	0	0	0.0000000000	0
##	CSI022	0	0	0	0	0.0001290933	0
##	CSI044	0	0	0	0	0.0000000000	0
##	CSI055	0	0	0	0	0.0000000000	0
##	CSI065	0	0	0	0	0.0000000000	0
##	CSI076	0	0	0	0	0.0000000000	0
##		0tu05191	0tu05192	0tu05193	0tu05194	0tu05195	0tu05196
##	CSI001	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI012	0.000000e+00	0	0	3.449941e-05	0	0
##	CSI022	0.000000e+00	0	0	2.151556e-05	0	0
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI055	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0
##		0tu05197	0tu05198	0tu05199	0tu05200	0tu05201	
##	CSI001	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI012	0.000000e+00	0	0	0.000000e+00	3.449941e-05	
##	CSI022	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI055	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##		0tu05202	0tu05203	0tu05204	0tu05205	0tu05206	0tu05207
##	CSI001	4.690652e-05	0	0	0	0	4.690652e-05
##	CSI012	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI022	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI044	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI055	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00

```

## CSI076 0.000000e+00      0      0      0      0 0.000000e+00
##      0tu05208      0tu05209 0tu05210      0tu05211 0tu05212 0tu05213
## CSI001      0 2.345326e-05      0 2.345326e-05      0      0
## CSI012      0 0.000000e+00      0 3.449941e-05      0      0
## CSI022      0 0.000000e+00      0 0.000000e+00      0      0
## CSI044      0 0.000000e+00      0 0.000000e+00      0      0
## CSI055      0 0.000000e+00      0 0.000000e+00      0      0
## CSI065      0 0.000000e+00      0 0.000000e+00      0      0
## CSI076      0 0.000000e+00      0 0.000000e+00      0      0
##      0tu05214 0tu05215      0tu05216 0tu05217 0tu05218 0tu05219
## CSI001 0.000000e+00      0 0.000000e+00      0      0      0
## CSI012 0.000000e+00      0 0.000000e+00      0      0      0
## CSI022 0.000000e+00      0 0.000000e+00      0      0      0
## CSI044 0.000000e+00      0 0.000000e+00      0      0      0
## CSI055 0.000000e+00      0 0.000000e+00      0      0      0
## CSI065 0.000000e+00      0 3.782005e-05      0      0      0
## CSI076 0.000000e+00      0 0.000000e+00      0      0      0
##      0tu05220      0tu05221 0tu05222 0tu05223 0tu05224 0tu05225 0tu05226
## CSI001      0 0.000000e+00      0      0      0      0      0
## CSI012      0 3.449941e-05      0      0      0      0      0
## CSI022      0 0.000000e+00      0      0      0      0      0
## CSI044      0 0.000000e+00      0      0      0      0      0
## CSI055      0 0.000000e+00      0      0      0      0      0
## CSI065      0 0.000000e+00      0      0      0      0      0
## CSI076      0 0.000000e+00      0      0      0      0      0
##      0tu05227 0tu05228 0tu05229      0tu05230 0tu05231 0tu05232
## CSI001      0      0      0 4.690652e-05      0      0
## CSI012      0      0      0 1.724971e-05      0      0
## CSI022      0      0      0 0.000000e+00      0      0
## CSI044      0      0      0 0.000000e+00      0      0
## CSI055      0      0      0 2.151417e-05      0      0
## CSI065      0      0      0 0.000000e+00      0      0
## CSI076      0      0      0 2.890675e-05      0      0
##      0tu05233      0tu05234 0tu05235 0tu05236 0tu05237      0tu05238
## CSI001 2.345326e-05 0.000000e+00      0      0      0 4.690652e-05
## CSI012 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
## CSI022 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
## CSI055 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00      0      0      0 1.134602e-04
## CSI076 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
##      0tu05239 0tu05240 0tu05241 0tu05242 0tu05243 0tu05244      0tu05245
## CSI001      0      0      0      0      0      0 0.000000e+00
## CSI012      0      0      0      0      0      0 1.724971e-05
## CSI022      0      0      0      0      0      0 0.000000e+00
## CSI044      0      0      0      0      0      0 0.000000e+00
## CSI055      0      0      0      0      0      0 0.000000e+00
## CSI065      0      0      0      0      0      0 0.000000e+00
## CSI076      0      0      0      0      0      0 0.000000e+00
##      0tu05246 0tu05247 0tu05248 0tu05249 0tu05250 0tu05251 0tu05252
## CSI001 0.0000000000      0      0      0      0      0      0
## CSI012 0.0000000000      0      0      0      0      0      0
## CSI022 0.0000000000      0      0      0      0      0      0
## CSI044 0.0000000000      0      0      0      0      0      0

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## CSI055 0.0000645425      0      0      0      0      0      0
## CSI065 0.0000000000      0      0      0      0      0      0
## CSI076 0.0000000000      0      0      0      0      0      0
##      0tu05253 0tu05254 0tu05255      0tu05256 0tu05257      0tu05258
## CSI001 2.345326e-05      0      0 0.0000000000      0 0.000000e+00
## CSI012 1.207479e-04      0      0 0.0000000000      0 1.724971e-05
## CSI022 0.000000e+00      0      0 0.0000000000      0 0.000000e+00
## CSI044 0.000000e+00      0      0 0.0000000000      0 0.000000e+00
## CSI055 0.000000e+00      0      0 0.0000000000      0 0.000000e+00
## CSI065 0.000000e+00      0      0 0.0000000000      0 0.000000e+00
## CSI076 2.890675e-05      0      0 0.0000000000      0 0.000000e+00
##      0tu05259 0tu05260 0tu05261 0tu05262 0tu05263 0tu05264 0tu05265
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu05266      0tu05267 0tu05268 0tu05269 0tu05270      0tu05271
## CSI001      0 0.000000e+00      0      0      0 0.000000e+00
## CSI012      0 0.000000e+00      0      0      0 1.724971e-05
## CSI022      0 0.000000e+00      0      0      0 0.000000e+00
## CSI044      0 0.000000e+00      0      0      0 0.000000e+00
## CSI055      0 0.000000e+00      0      0      0 0.000000e+00
## CSI065      0 0.000000e+00      0      0      0 0.000000e+00
## CSI076      0 0.000000e+00      0      0      0 0.000000e+00
##      0tu05272      0tu05273 0tu05274 0tu05275      0tu05276 0tu05277
## CSI001      0 0.000000e+00      0      0 0.000000e+00      0
## CSI012      0 0.000000e+00      0      0 0.000000e+00      0
## CSI022      0 0.000000e+00      0      0 0.000000e+00      0
## CSI044      0 0.000000e+00      0      0 0.000000e+00      0
## CSI055      0 0.000000e+00      0      0 2.151417e-05      0
## CSI065      0 0.000000e+00      0      0 0.000000e+00      0
## CSI076      0 5.781349e-05      0      0 0.000000e+00      0
##      0tu05278 0tu05279 0tu05280 0tu05281 0tu05282 0tu05283      0tu05284
## CSI001      0      0      0      0      0      0 0.000000e+00
## CSI012      0      0      0      0      0      0 0.000000e+00
## CSI022      0      0      0      0      0      0 0.000000e+00
## CSI044      0      0      0      0      0      0 0.000000e+00
## CSI055      0      0      0      0      0      0 4.302833e-05
## CSI065      0      0      0      0      0      0 0.000000e+00
## CSI076      0      0      0      0      0      0 0.000000e+00
##      0tu05285      0tu05286 0tu05287 0tu05288      0tu05289 0tu05290
## CSI001      0 0.0000000000      0      0 0.0000000000      0
## CSI012      0 0.0001379977      0      0 0.0001724971      0
## CSI022      0 0.0000000000      0      0 0.0000000000      0
## CSI044      0 0.0000000000      0      0 0.0000000000      0
## CSI055      0 0.0000000000      0      0 0.0000000000      0
## CSI065      0 0.0000000000      0      0 0.0000000000      0
## CSI076      0 0.0000000000      0      0 0.0000000000      0
##      0tu05291      0tu05292      0tu05293      0tu05294      0tu05295
## CSI001      0 0.0000000000 0.0000000000 4.690652e-05 0.000000e+00
## CSI012      0 0.0000000000 0.0000000000 3.449941e-05 0.000000e+00

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## CSI022      0 0.0000000000 0.0000000000 0.000000e+00 0.000000e+00
## CSI044      0 0.0000000000 0.0002365884 0.000000e+00 1.971570e-05
## CSI055      0 0.0001075708 0.0000000000 0.000000e+00 0.000000e+00
## CSI065      0 0.0000000000 0.0001512802 0.000000e+00 0.000000e+00
## CSI076      0 0.0000000000 0.0000000000 0.000000e+00 0.000000e+00
##      0tu05296 0tu05297 0tu05298 0tu05299 0tu05300      0tu05301 0tu05302
## CSI001      0      0      0      0      0 0.000000e+00      0
## CSI012      0      0      0      0      0 0.000000e+00      0
## CSI022      0      0      0      0      0 0.000000e+00      0
## CSI044      0      0      0      0      0 0.000000e+00      0
## CSI055      0      0      0      0      0 0.000000e+00      0
## CSI065      0      0      0      0      0 0.000000e+00      0
## CSI076      0      0      0      0      0 0.000000e+00      0
##      0tu05303      0tu05304 0tu05305 0tu05306      0tu05307
## CSI001 0.000000e+00 9.381303e-05      0      0 0.000000e+00
## CSI012 3.449941e-05 1.724971e-05      0      0 0.000000e+00
## CSI022 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI055 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00      0      0 0.000000e+00
##      0tu05308 0tu05309 0tu05310 0tu05311 0tu05312 0tu05313 0tu05314
## CSI001 0.000000e+00      0      0      0      0      0      0
## CSI012 0.000000e+00      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 0.000000e+00      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0      0
##      0tu05315 0tu05316 0tu05317 0tu05318 0tu05319 0tu05320 0tu05321
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu05322 0tu05323      0tu05324 0tu05325 0tu05326 0tu05327 0tu05328
## CSI001      0      0 0.000000e+00      0      0      0      0
## CSI012      0      0 0.000000e+00      0      0      0      0
## CSI022      0      0 0.000000e+00      0      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0      0
## CSI055      0      0 0.000000e+00      0      0      0      0
## CSI065      0      0 0.000000e+00      0      0      0      0
## CSI076      0      0 0.000000e+00      0      0      0      0
##      0tu05329 0tu05330 0tu05331      0tu05332      0tu05333 0tu05334
## CSI001      0      0      0 0.000000e+00 0.000000e+00      0
## CSI012      0      0      0 0.000000e+00 0.000000e+00      0
## CSI022      0      0      0 0.000000e+00 0.000000e+00      0
## CSI044      0      0      0 0.000000e+00 0.000000e+00      0
## CSI055      0      0      0 0.000000e+00 6.45425e-05      0
## CSI065      0      0      0 0.000000e+00 0.000000e+00      0
## CSI076      0      0      0 2.890675e-05 0.000000e+00      0
##      0tu05335 0tu05336 0tu05337 0tu05338 0tu05339 0tu05340 0tu05341

```

##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu05342	0tu05343	0tu05344	0tu05345	0tu05346	0tu05347
##	CSI001	2.345326e-05	0.000000e+00	0	0	0.000000e+00	0
##	CSI012	0.000000e+00	3.449941e-05	0	0	1.724971e-05	0
##	CSI022	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI055	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI065	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI076	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##		0tu05348	0tu05349	0tu05350	0tu05351	0tu05352	0tu05353
##	CSI001	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI012	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI022	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI044	0	2.563041e-04	0	0.000000e+00	0	0
##	CSI055	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI065	0	3.782005e-05	0	0.000000e+00	0	0
##	CSI076	0	0.000000e+00	0	5.781349e-05	0	0
##		0tu05354	0tu05355	0tu05356	0tu05357	0tu05358	0tu05359
##	CSI001	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	2.151417e-05	0	0
##	CSI065	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0.000000e+00	0	0
##		0tu05361	0tu05362	0tu05363	0tu05364	0tu05365	0tu05366
##	CSI001	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI012	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI022	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI044	0	0	0	1.97157e-05	0.000000e+00	0
##	CSI055	0	0	0	0.000000e+00	6.454250e-05	0
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI076	0	0	0	0.000000e+00	2.890675e-05	0
##		0tu05367	0tu05368	0tu05369	0tu05370	0tu05371	0tu05372
##	CSI001	0	0.000000e+00	0	0	0.0000000000	0
##	CSI012	0	0.000000e+00	0	0	0.0000000000	0
##	CSI022	0	0.000000e+00	0	0	0.0000000000	0
##	CSI044	0	0.000000e+00	0	0	0.0000000000	0
##	CSI055	0	0.000000e+00	0	0	0.0001936275	0
##	CSI065	0	0.000000e+00	0	0	0.0000000000	0
##	CSI076	0	0.000000e+00	0	0	0.0000000000	0
##		0tu05373	0tu05374	0tu05375	0tu05376	0tu05377	0tu05378
##	CSI001	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	5.174912e-05	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0

```

## CSI076      0      0 0.000000e+00      0      0      0
##      0tu05379 0tu05380 0tu05381 0tu05382      0tu05383 0tu05384
## CSI001 0.00000e+00      0      0      0 0.0000000000      0
## CSI012 0.00000e+00      0      0      0 0.0000000000      0
## CSI022 0.00000e+00      0      0      0 0.0000000000      0
## CSI044 0.00000e+00      0      0      0 0.0000000000      0
## CSI055 6.45425e-05      0      0      0 0.0000000000      0
## CSI065 0.00000e+00      0      0      0 0.0000000000      0
## CSI076 0.00000e+00      0      0      0 0.0000000000      0
##      0tu05385      0tu05386 0tu05387      0tu05388 0tu05389 0tu05390
## CSI001      0 0.000000e+00      0 0.000000e+00      0      0
## CSI012      0 0.000000e+00      0 0.000000e+00      0      0
## CSI022      0 0.000000e+00      0 0.000000e+00      0      0
## CSI044      0 0.000000e+00      0 0.000000e+00      0      0
## CSI055      0 0.000000e+00      0 0.000000e+00      0      0
## CSI065      0 0.000000e+00      0 0.000000e+00      0      0
## CSI076      0 0.000000e+00      0 2.890675e-05      0      0
##      0tu05391      0tu05392 0tu05393 0tu05394 0tu05395 0tu05396
## CSI001 0.000000e+00 0.000000e+00      0      0      0      0
## CSI012 0.000000e+00 0.000000e+00      0      0      0      0
## CSI022 0.000000e+00 0.000000e+00      0      0      0      0
## CSI044 0.000000e+00 0.000000e+00      0      0      0      0
## CSI055 2.151417e-05 2.151417e-05      0      0      0      0
## CSI065 0.000000e+00 0.000000e+00      0      0      0      0
## CSI076 0.000000e+00 0.000000e+00      0      0      0      0
##      0tu05397      0tu05398 0tu05399 0tu05400      0tu05401 0tu05402
## CSI001      0 0.000000e+00      0      0 0.0000000000      0
## CSI012      0 0.000000e+00      0      0 0.0000000000      0
## CSI022      0 0.000000e+00      0      0 0.0000000000      0
## CSI044      0 0.000000e+00      0      0 0.0000000000      0
## CSI055      0 0.000000e+00      0      0 0.0000000000      0
## CSI065      0 0.000000e+00      0      0 0.0000000000      0
## CSI076      0 0.000000e+00      0      0 0.0000000000      0
##      0tu05403      0tu05404 0tu05405 0tu05406      0tu05407      0tu05408
## CSI001      0 0.000000e+00      0      0 0.000000000 0.0000000000
## CSI012      0 0.000000e+00      0      0 0.000000000 0.0000000000
## CSI022      0 0.000000e+00      0      0 0.000000000 0.0000000000
## CSI044      0 0.000000e+00      0      0 0.000000000 0.0000000000
## CSI055      0 2.151417e-05      0      0 0.00025817 0.0001721133
## CSI065      0 0.000000e+00      0      0 0.000000000 0.0000000000
## CSI076      0 0.000000e+00      0      0 0.000000000 0.0000000000
##      0tu05409 0tu05410      0tu05411 0tu05412      0tu05413 0tu05414
## CSI001 0.000000e+00      0 7.035977e-05      0 0.000000e+00      0
## CSI012 0.000000e+00      0 1.724971e-05      0 0.000000e+00      0
## CSI022 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI044 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI055 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI065 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI076 2.890675e-05      0 0.000000e+00      0 0.000000e+00      0
##      0tu05415      0tu05416 0tu05417 0tu05418 0tu05419 0tu05420 0tu05421
## CSI001      0 0.000000e+00      0      0      0      0      0
## CSI012      0 0.000000e+00      0      0      0      0      0
## CSI022      0 0.000000e+00      0      0      0      0      0
## CSI044      0 0.000000e+00      0      0      0      0      0

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##	CSI055	0	2.151417e-05	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu05422	0tu05423	0tu05424	0tu05425	0tu05426	0tu05427	
##	CSI001	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI012	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI022	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI055	0	0	0	1.505992e-04	0.000000e+00	4.302833e-05	
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI076	0	0	0	0.000000e+00	0.000000e+00	1.734405e-04	
##		0tu05428	0tu05429	0tu05430	0tu05431	0tu05432	0tu05433	0tu05434
##	CSI001	0	7.035977e-05	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu05435	0tu05436	0tu05437	0tu05438	0tu05439	0tu05440	
##	CSI001	0	0	0	0.0000000000	0	9.381303e-05	
##	CSI012	0	0	0	0.0000000000	0	0.000000e+00	
##	CSI022	0	0	0	0.0000000000	0	0.000000e+00	
##	CSI044	0	0	0	0.0000000000	0	1.971570e-05	
##	CSI055	0	0	0	0.0000000000	0	0.000000e+00	
##	CSI065	0	0	0	0.0000000000	0	0.000000e+00	
##	CSI076	0	0	0	0.0000000000	0	0.000000e+00	
##		0tu05441	0tu05442	0tu05443	0tu05444	0tu05445	0tu05446	
##	CSI001	0.000000e+00	0.000000e+00	0	2.345326e-05	0	0	
##	CSI012	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI055	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI076	2.890675e-05	0.000000e+00	0	0.000000e+00	0	0	
##		0tu05447	0tu05448	0tu05449	0tu05450	0tu05451	0tu05452	0tu05453
##	CSI001	0.0000000000	0	0	0	0	0	0
##	CSI012	0.0000000000	0	0	0	0	0	0
##	CSI022	0.0000000000	0	0	0	0	0	0
##	CSI044	0.0000000000	0	0	0	0	0	0
##	CSI055	0.0001721133	0	0	0	0	0	0
##	CSI065	0.0000000000	0	0	0	0	0	0
##	CSI076	0.0000000000	0	0	0	0	0	0
##		0tu05454	0tu05455	0tu05456	0tu05457	0tu05458	0tu05459	
##	CSI001	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI012	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI022	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI055	0	4.302833e-05	2.151417e-05	0	0	0	
##	CSI065	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI076	0	0.000000e+00	0.000000e+00	0	0	0	
##		0tu05460	0tu05461	0tu05462	0tu05463	0tu05464	0tu05465	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0.0000000000	0	
##	CSI012	3.449941e-05	0	0.000000e+00	0	0.0001207479	0	

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## CSI022 0.000000e+00      0 0.000000e+00      0 0.0000000000      0
## CSI044 0.000000e+00      0 0.000000e+00      0 0.0000000000      0
## CSI055 0.000000e+00      0 0.000000e+00      0 0.0000000000      0
## CSI065 0.000000e+00      0 0.000000e+00      0 0.0000000000      0
## CSI076 0.000000e+00      0 0.000000e+00      0 0.0000000000      0
##      0tu05466 0tu05467      0tu05468 0tu05469 0tu05470      0tu05471
## CSI001      0      0 0.0000000000      0      0 0.000000e+00
## CSI012      0      0 0.0000000000      0      0 1.724971e-05
## CSI022      0      0 0.0000000000      0      0 0.000000e+00
## CSI044      0      0 0.0000197157      0      0 0.000000e+00
## CSI055      0      0 0.0000000000      0      0 0.000000e+00
## CSI065      0      0 0.0000000000      0      0 0.000000e+00
## CSI076      0      0 0.0000000000      0      0 0.000000e+00
##      0tu05472      0tu05473 0tu05474      0tu05475 0tu05476 0tu05477
## CSI001      0 0.000000e+00      0 0.0000000000      0      0
## CSI012      0 0.000000e+00      0 0.0000000000      0      0
## CSI022      0 0.000000e+00      0 0.0000000000      0      0
## CSI044      0 0.000000e+00      0 0.0002168727      0      0
## CSI055      0 0.000000e+00      0 0.0000000000      0      0
## CSI065      0 0.000000e+00      0 0.0000000000      0      0
## CSI076      0 8.672024e-05      0 0.0000000000      0      0
##      0tu05478      0tu05479      0tu05480 0tu05481 0tu05482 0tu05483
## CSI001      0 0.000000e+00 0.00000e+00      0      0      0
## CSI012      0 0.000000e+00 0.00000e+00      0      0      0
## CSI022      0 0.000000e+00 0.00000e+00      0      0      0
## CSI044      0 0.000000e+00 3.94314e-05      0      0      0
## CSI055      0 0.000000e+00 0.00000e+00      0      0      0
## CSI065      0 0.000000e+00 0.00000e+00      0      0      0
## CSI076      0 0.000000e+00 0.00000e+00      0      0      0
##      0tu05484 0tu05485 0tu05486      0tu05487 0tu05488 0tu05489 0tu05490
## CSI001      0      0      0 0.000000e+00      0      0      0
## CSI012      0      0      0 1.724971e-05      0      0      0
## CSI022      0      0      0 0.000000e+00      0      0      0
## CSI044      0      0      0 0.000000e+00      0      0      0
## CSI055      0      0      0 0.000000e+00      0      0      0
## CSI065      0      0      0 0.000000e+00      0      0      0
## CSI076      0      0      0 0.000000e+00      0      0      0
##      0tu05491 0tu05492 0tu05493      0tu05494 0tu05495 0tu05496
## CSI001 0.000000e+00      0      0 4.690652e-05      0      0
## CSI012 0.000000e+00      0      0 0.000000e+00      0      0
## CSI022 0.000000e+00      0      0 0.000000e+00      0      0
## CSI044 0.000000e+00      0      0 0.000000e+00      0      0
## CSI055 0.000000e+00      0      0 0.000000e+00      0      0
## CSI065 0.000000e+00      0      0 0.000000e+00      0      0
## CSI076 0.000000e+00      0      0 0.000000e+00      0      0
##      0tu05497 0tu05498      0tu05499 0tu05500 0tu05501 0tu05502 0tu05503
## CSI001      0      0 0.000000e+00      0      0      0      0
## CSI012      0      0 0.000000e+00      0      0      0      0
## CSI022      0      0 0.000000e+00      0      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0      0
## CSI055      0      0 4.302833e-05      0      0      0      0
## CSI065      0      0 0.000000e+00      0      0      0      0
## CSI076      0      0 0.000000e+00      0      0      0      0
##      0tu05504 0tu05505      0tu05506 0tu05507 0tu05508 0tu05509 0tu05510

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##	CSI001	0	0 7.035977e-05	0	0	0	0
##	CSI012	0	0 0.000000e+00	0	0	0	0
##	CSI022	0	0 0.000000e+00	0	0	0	0
##	CSI044	0	0 0.000000e+00	0	0	0	0
##	CSI055	0	0 0.000000e+00	0	0	0	0
##	CSI065	0	0 0.000000e+00	0	0	0	0
##	CSI076	0	0 0.000000e+00	0	0	0	0
##	0tu05511	0tu05512	0tu05513	0tu05514	0tu05515	0tu05516	
##	CSI001	0 0.0000000000	0	0	0 0.0000000000		
##	CSI012	0 0.0000000000	0	0	0 0.0000000000		
##	CSI022	0 0.0000000000	0	0	0 0.0000000000		
##	CSI044	0 0.0000000000	0	0	0 0.0000000000		
##	CSI055	0 0.0001075708	0	0	0 0.0000000000		
##	CSI065	0 0.0000000000	0	0	0 0.0002647404		
##	CSI076	0 0.0000000000	0	0	0 0.0000000000		
##	0tu05517	0tu05518	0tu05519	0tu05520	0tu05521	0tu05522	
##	CSI001	0 0.000000e+00	0.0000000000	0	0	0	
##	CSI012	0 0.000000e+00	0.0000000000	0	0	0	
##	CSI022	0 0.000000e+00	0.0000000000	0	0	0	
##	CSI044	0 0.000000e+00	0.0000000000	0	0	0	
##	CSI055	0 0.000000e+00	0.0000000000	0	0	0	
##	CSI065	0 0.000000e+00	0.0000000000	0	0	0	
##	CSI076	0 0.000000e+00	0.000115627	0	0	0	
##	0tu05523	0tu05524	0tu05525	0tu05526	0tu05527	0tu05528	
##	CSI001	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00		
##	CSI012	0 1.724971e-05	0 1.724971e-05	0 0.000000e+00	0 0.000000e+00		
##	CSI022	0 2.151556e-05	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00		
##	CSI044	0 0.000000e+00	0 1.971570e-05	0 0.000000e+00	0 0.000000e+00		
##	CSI055	0 0.000000e+00	0 0.000000e+00	0 2.151417e-05	0 0.000000e+00		
##	CSI065	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00		
##	CSI076	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00		
##	0tu05529	0tu05530	0tu05531	0tu05532	0tu05533	0tu05534	
##	CSI001	0	0 0.000000e+00	0 0.000000e+00			
##	CSI012	0	0 3.449941e-05	0 0.000000e+00			
##	CSI022	0	0 0.000000e+00	0 0.000000e+00			
##	CSI044	0	0 0.000000e+00	0 0.000000e+00			
##	CSI055	0	0 0.000000e+00	0 6.45425e-05			
##	CSI065	0	0 0.000000e+00	0 0.000000e+00			
##	CSI076	0	0 0.000000e+00	0 0.000000e+00			
##	0tu05535	0tu05536	0tu05537	0tu05538	0tu05539	0tu05540	0tu05541
##	CSI001	0	0 7.035977e-05	0	0	0	0
##	CSI012	0	0 1.897468e-04	0	0	0	0
##	CSI022	0	0 0.000000e+00	0	0	0	0
##	CSI044	0	0 0.000000e+00	0	0	0	0
##	CSI055	0	0 0.000000e+00	0	0	0	0
##	CSI065	0	0 0.000000e+00	0	0	0	0
##	CSI076	0	0 0.000000e+00	0	0	0	0
##	0tu05542	0tu05543	0tu05544	0tu05545	0tu05546	0tu05547	
##	CSI001	0.000000e+00	0	0	0 0.0000000000		
##	CSI012	0.000000e+00	0	0	0 0.0001034982		
##	CSI022	2.151556e-05	0	0	0 0.0000000000		
##	CSI044	0.000000e+00	0	0	0 0.0000000000		
##	CSI055	0.000000e+00	0	0	0 0.0000000000		
##	CSI065	0.000000e+00	0	0	0 0.0000000000		

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## CSI076 0.000000e+00      0      0      0      0 0.0000000000
##      0tu05548 0tu05549      0tu05550 0tu05551      0tu05552 0tu05553
## CSI001      0      0 0.000000e+00      0 0.000000e+00      0
## CSI012      0      0 0.000000e+00      0 0.000000e+00      0
## CSI022      0      0 0.000000e+00      0 0.000000e+00      0
## CSI044      0      0 0.000000e+00      0 0.000000e+00      0
## CSI055      0      0 0.000000e+00      0 0.000000e+00      0
## CSI065      0      0 0.000000e+00      0 0.000000e+00      0
## CSI076      0      0 0.000000e+00      0 0.000000e+00      0
##      0tu05554      0tu05555 0tu05556      0tu05557 0tu05558 0tu05559
## CSI001      0 0.000000e+00      0 0.0000000000      0      0
## CSI012      0 0.000000e+00      0 0.0000000000      0      0
## CSI022      0 0.000000e+00      0 0.0000000000      0      0
## CSI044      0 0.000000e+00      0 0.0000000000      0      0
## CSI055      0 4.302833e-05      0 0.0000000000      0      0
## CSI065      0 0.000000e+00      0 0.0000000000      0      0
## CSI076      0 0.000000e+00      0 0.0004046945      0      0
##      0tu05560 0tu05561 0tu05562      0tu05563 0tu05564 0tu05565 0tu05566
## CSI001      0      0      0 0.000000e+00      0      0      0
## CSI012      0      0      0 0.000000e+00      0      0      0
## CSI022      0      0      0 0.000000e+00      0      0      0
## CSI044      0      0      0 0.000000e+00      0      0      0
## CSI055      0      0      0 0.000000e+00      0      0      0
## CSI065      0      0      0 0.000000e+00      0      0      0
## CSI076      0      0      0 0.000000e+00      0      0      0
##      0tu05567 0tu05568 0tu05569      0tu05570 0tu05571      0tu05572
## CSI001 0.0000000000      0      0 4.690652e-05      0 0.000000e+00
## CSI012 0.0000000000      0      0 0.000000e+00      0 0.000000e+00
## CSI022 0.0000000000      0      0 0.000000e+00      0 0.000000e+00
## CSI044 0.0000000000      0      0 0.000000e+00      0 0.000000e+00
## CSI055 0.0000000000      0      0 0.000000e+00      0 0.000000e+00
## CSI065 0.0000000000      0      0 0.000000e+00      0 0.000000e+00
## CSI076 0.0000000000      0      0 2.890675e-05      0 0.000000e+00
##      0tu05573 0tu05574      0tu05575 0tu05576      0tu05577 0tu05578
## CSI001      0      0 0.000000e+00      0 0.000000e+00      0
## CSI012      0      0 5.174912e-05      0 0.000000e+00      0
## CSI022      0      0 0.000000e+00      0 0.000000e+00      0
## CSI044      0      0 0.000000e+00      0 0.000000e+00      0
## CSI055      0      0 0.000000e+00      0 0.000000e+00      0
## CSI065      0      0 0.000000e+00      0 0.000000e+00      0
## CSI076      0      0 0.000000e+00      0 0.000000e+00      0
##      0tu05579      0tu05580 0tu05581 0tu05582 0tu05583      0tu05584
## CSI001 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
## CSI012 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
## CSI022 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
## CSI055 2.151417e-05 0.000000e+00      0      0      0 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00      0      0      0 2.890675e-05
##      0tu05585 0tu05586 0tu05587 0tu05588      0tu05589      0tu05590
## CSI001 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI012 0.000000e+00      0      0      0 1.724971e-05 0.000000e+00
## CSI022 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00

```



##	CSI055	0.000000e+00	0	0	0	0.000000e+00	4.302833e-05
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI076	2.890675e-05	0	0	0	2.890675e-05	0.000000e+00
##		0tu05591	0tu05592	0tu05593	0tu05594	0tu05595	0tu05596 0tu05597
##	CSI001	0	0	0	0	0	0.000000e+00 0
##	CSI012	0	0	0	0	0	0.000000e+00 0
##	CSI022	0	0	0	0	0	0.000000e+00 0
##	CSI044	0	0	0	0	0	1.97157e-05 0
##	CSI055	0	0	0	0	0	0.000000e+00 0
##	CSI065	0	0	0	0	0	0.000000e+00 0
##	CSI076	0	0	0	0	0	0.000000e+00 0
##		0tu05598	0tu05599	0tu05600	0tu05601	0tu05602	
##	CSI001	0.000000e+00	0.000000e+00	0	0	2.345326e-05	
##	CSI012	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI044	3.943140e-05	0.000000e+00	0	0	0.000000e+00	
##	CSI055	0.000000e+00	0.000000e+00	0	0	1.936275e-04	
##	CSI065	3.782005e-05	0.000000e+00	0	0	0.000000e+00	
##	CSI076	0.000000e+00	8.672024e-05	0	0	0.000000e+00	
##		0tu05603	0tu05604	0tu05605	0tu05606	0tu05607	0tu05608
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI012	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI055	2.151417e-05	0	0	0	2.151417e-05	0
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI076	0.000000e+00	0	0	0	8.672024e-05	0
##		0tu05609	0tu05610	0tu05611	0tu05612	0tu05613	0tu05614 0tu05615
##	CSI001	0	0	0	0	0.000000e+00	0 0
##	CSI012	0	0	0	0	0.000000e+00	0 0
##	CSI022	0	0	0	0	0.000000e+00	0 0
##	CSI044	0	0	0	0	0.000000e+00	0 0
##	CSI055	0	0	0	0	0.000000e+00	0 0
##	CSI065	0	0	0	0	3.782005e-05	0 0
##	CSI076	0	0	0	0	0.000000e+00	0 0
##		0tu05616	0tu05617	0tu05618	0tu05619	0tu05620	0tu05621 0tu05622
##	CSI001	0	0	0	2.345326e-05	0	0 0
##	CSI012	0	0	0	0.000000e+00	0	0 0
##	CSI022	0	0	0	4.303111e-05	0	0 0
##	CSI044	0	0	0	0.000000e+00	0	0 0
##	CSI055	0	0	0	0.000000e+00	0	0 0
##	CSI065	0	0	0	0.000000e+00	0	0 0
##	CSI076	0	0	0	0.000000e+00	0	0 0
##		0tu05623	0tu05624	0tu05625	0tu05626	0tu05627	0tu05628 0tu05629
##	CSI001	0	0	0	0	0.000000e+00	0 0
##	CSI012	0	0	0	0	0.000000e+00	0 0
##	CSI022	0	0	0	0	0.000000e+00	0 0
##	CSI044	0	0	0	0	0.000000e+00	0 0
##	CSI055	0	0	0	0	1.075708e-04	0 0
##	CSI065	0	0	0	0	0.000000e+00	0 0
##	CSI076	0	0	0	0	0.000000e+00	0 0
##		0tu05630	0tu05631	0tu05632	0tu05633	0tu05634	0tu05635 0tu05636
##	CSI001	0	0	0	0	0.000000e+00	0 0
##	CSI012	0	0	0	0	0.000000e+00	0 0

##	CSI022	0	0	0	0 0.00000e+00	0	0
##	CSI044	0	0	0	0 1.97157e-05	0	0
##	CSI055	0	0	0	0 0.00000e+00	0	0
##	CSI065	0	0	0	0 0.00000e+00	0	0
##	CSI076	0	0	0	0 0.00000e+00	0	0
##		0tu05637	0tu05638	0tu05639	0tu05640	0tu05641	0tu05642 0tu05643
##	CSI001	0	0	0 0.0000000000	0	0	0
##	CSI012	0	0	0 0.0000000000	0	0	0
##	CSI022	0	0	0 0.0000000000	0	0	0
##	CSI044	0	0	0 0.0000000000	0	0	0
##	CSI055	0	0	0 0.0000000000	0	0	0
##	CSI065	0	0	0 0.0000000000	0	0	0
##	CSI076	0	0	0 0.0000000000	0	0	0
##		0tu05644	0tu05645	0tu05646	0tu05647	0tu05648	0tu05649
##	CSI001	0	0	0	0 0.0003283456	0.000000e+00	
##	CSI012	0	0	0	0 0.0000000000	0.000000e+00	
##	CSI022	0	0	0	0 0.0000000000	0.000000e+00	
##	CSI044	0	0	0	0 0.0000000000	0.000000e+00	
##	CSI055	0	0	0	0 0.0000000000	2.151417e-05	
##	CSI065	0	0	0	0 0.0000000000	0.000000e+00	
##	CSI076	0	0	0	0 0.0000000000	0.000000e+00	
##		0tu05650	0tu05651	0tu05652	0tu05653	0tu05654	0tu05655
##	CSI001	0 0.000000e+00		0	0	0 0.000000e+00	
##	CSI012	0 0.000000e+00		0	0	0 0.000000e+00	
##	CSI022	0 0.000000e+00		0	0	0 0.000000e+00	
##	CSI044	0 0.000000e+00		0	0	0 0.000000e+00	
##	CSI055	0 0.000000e+00		0	0	0 2.366558e-04	
##	CSI065	0 0.000000e+00		0	0	0 0.000000e+00	
##	CSI076	0 0.000000e+00		0	0	0 0.000000e+00	
##		0tu05656	0tu05657	0tu05658	0tu05659	0tu05660	0tu05661 0tu05662
##	CSI001	0	0 0.0000000000		0	0	0 0
##	CSI012	0	0 0.0001552474		0	0	0 0
##	CSI022	0	0 0.0000000000		0	0	0 0
##	CSI044	0	0 0.0000000000		0	0	0 0
##	CSI055	0	0 0.0000000000		0	0	0 0
##	CSI065	0	0 0.0000000000		0	0	0 0
##	CSI076	0	0 0.0000000000		0	0	0 0
##		0tu05663	0tu05664	0tu05665	0tu05666	0tu05667	0tu05668
##	CSI001	0	0	0 0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI012	0	0	0 0.000000e+00	1.724971e-05	0.000000e+00	
##	CSI022	0	0	0 0.000000e+00	0.000000e+00	4.303111e-05	
##	CSI044	0	0	0 0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI055	0	0	0 0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI065	0	0	0 0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI076	0	0	0 2.890675e-05	0.000000e+00	0.000000e+00	
##		0tu05669	0tu05670	0tu05671	0tu05672	0tu05673	0tu05674
##	CSI001	0.000000e+00	0.000000e+00		0 4.690652e-05	0	0
##	CSI012	0.000000e+00	0.000000e+00		0 3.449941e-05	0	0
##	CSI022	0.000000e+00	0.000000e+00		0 0.000000e+00	0	0
##	CSI044	0.000000e+00	0.000000e+00		0 0.000000e+00	0	0
##	CSI055	2.151417e-05	0.000000e+00		0 0.000000e+00	0	0
##	CSI065	0.000000e+00	0.000000e+00		0 0.000000e+00	0	0
##	CSI076	0.000000e+00	0.000000e+00		0 0.000000e+00	0	0
##		0tu05675	0tu05676	0tu05677	0tu05678	0tu05679	0tu05680

##	CSI001	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI022	2.151556e-05	0.000000e+00	0	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI076	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##		0tu05681	0tu05682	0tu05683	0tu05684	0tu05685	0tu05686	0tu05687
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu05688	0tu05689	0tu05690	0tu05691	0tu05692	0tu05693	
##	CSI001	0	0	0.000000e+00	0	0	2.345326e-05	
##	CSI012	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI022	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI044	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI055	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI065	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI076	0	0	0.000000e+00	0	0	0.000000e+00	
##		0tu05694	0tu05695	0tu05696	0tu05697	0tu05698	0tu05699	0tu05700
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu05701	0tu05702	0tu05703	0tu05704	0tu05705	0tu05706	0tu05707
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu05708	0tu05709	0tu05710	0tu05711	0tu05712	0tu05713	
##	CSI001	0	0	0	0.000000e+00	0	2.345326e-05	
##	CSI012	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI022	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI076	0	0	0	0.000000e+00	0	0.000000e+00	
##		0tu05714	0tu05715	0tu05716	0tu05717	0tu05718	0tu05719	
##	CSI001	0	0	0.000000e+00	0	7.035977e-05	0	
##	CSI012	0	0	0.000000e+00	0	1.724971e-05	0	
##	CSI022	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0	

##	CSI076	0	0	5.781349e-05	0	0.000000e+00	0
##		0tu05720	0tu05721	0tu05722	0tu05723	0tu05724	0tu05725 0tu05726
##	CSI001	0	0	0	0	0	0.000000e+00 0
##	CSI012	0	0	0	0	0	0.000000e+00 0
##	CSI022	0	0	0	0	0	0.000000e+00 0
##	CSI044	0	0	0	0	0	0.000000e+00 0
##	CSI055	0	0	0	0	0	0.000000e+00 0
##	CSI065	0	0	0	0	0	0.000000e+00 0
##	CSI076	0	0	0	0	0	5.781349e-05 0
##		0tu05727	0tu05728	0tu05729	0tu05730	0tu05731	0tu05732
##	CSI001	0.000000e+00	0	0.0000000000	0	0.000000e+00	0
##	CSI012	1.724971e-05	0	0.0000000000	0	0.000000e+00	0
##	CSI022	0.000000e+00	0	0.0000000000	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0.0000000000	0	0.000000e+00	0
##	CSI055	0.000000e+00	0	0.0000000000	0	0.000000e+00	0
##	CSI065	0.000000e+00	0	0.0000000000	0	0.000000e+00	0
##	CSI076	0.000000e+00	0	0.0000000000	0	0.000000e+00	0
##		0tu05733	0tu05734	0tu05735	0tu05736	0tu05737	0tu05738
##	CSI001	0	0	2.345326e-05	0	0	0.000000e+00
##	CSI012	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI022	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI044	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI055	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI065	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI076	0	0	0.000000e+00	0	0	0.000000e+00
##		0tu05739	0tu05740	0tu05741	0tu05742	0tu05743	0tu05744
##	CSI001	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI012	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI022	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI044	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI055	0	0	8.605667e-05	0.000000e+00	0	0.000000e+00
##	CSI065	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI076	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##		0tu05745	0tu05746	0tu05747	0tu05748	0tu05749	0tu05750
##	CSI001	0.000000e+00	0	0	2.345326e-05	0	0
##	CSI012	3.449941e-05	0	0	3.449941e-05	0	0
##	CSI022	6.454667e-05	0	0	0.000000e+00	0	0
##	CSI044	0.000000e+00	0	0	1.380099e-04	0	0
##	CSI055	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0
##		0tu05751	0tu05752	0tu05753	0tu05754	0tu05755	0tu05756 0tu05757
##	CSI001	0	0	0	0	0	0 0
##	CSI012	0	0	0	0	0	0 0
##	CSI022	0	0	0	0	0	0 0
##	CSI044	0	0	0	0	0	0 0
##	CSI055	0	0	0	0	0	0 0
##	CSI065	0	0	0	0	0	0 0
##	CSI076	0	0	0	0	0	0 0
##		0tu05758	0tu05759	0tu05760	0tu05761	0tu05762	0tu05763
##	CSI001	0	0	2.345326e-05	0.000000e+00	0	0
##	CSI012	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI022	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI044	0	0	0.000000e+00	1.97157e-05	0	0

##	CSI055	0	0	0.000000e+00	6.45425e-05	0	0
##	CSI065	0	0	0.000000e+00	0.00000e+00	0	0
##	CSI076	0	0	0.000000e+00	0.00000e+00	0	0
##		0tu05764	0tu05765	0tu05766	0tu05767	0tu05768	0tu05769
##	CSI001	0	0	0	0.000000e+00	2.345326e-05	0.000000e+00
##	CSI012	0	0	0	0.000000e+00	3.449941e-05	0.000000e+00
##	CSI022	0	0	0	2.151556e-05	0.000000e+00	0.000000e+00
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI055	0	0	0	0.000000e+00	0.000000e+00	4.302833e-05
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI076	0	0	0	0.000000e+00	0.000000e+00	5.781349e-05
##		0tu05770	0tu05771	0tu05772	0tu05773	0tu05774	0tu05775
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI012	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI065	0.000000e+00	1.134602e-04	0	0	0	0
##	CSI076	5.781349e-05	0.000000e+00	0	0	0	0
##		0tu05776	0tu05777	0tu05778	0tu05779	0tu05780	0tu05781
##	CSI001	0	0	2.345326e-05	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0
##		0tu05783	0tu05784	0tu05785	0tu05786	0tu05787	0tu05788
##	CSI001	0	0	0.0000000000	0	0	0.000000e+00
##	CSI012	0	0	0.0000000000	0	0	0.000000e+00
##	CSI022	0	0	0.0000000000	0	0	0.000000e+00
##	CSI044	0	0	0.0000000000	0	0	0.000000e+00
##	CSI055	0	0	0.0000000000	0	0	4.302833e-05
##	CSI065	0	0	0.0000000000	0	0	0.000000e+00
##	CSI076	0	0	0.0000000000	0	0	0.000000e+00
##		0tu05789	0tu05790	0tu05791	0tu05792	0tu05793	
##	CSI001	0.0000000000	2.345326e-05	0	0	2.345326e-05	
##	CSI012	0.0000000000	0.000000e+00	0	0	0.000000e+00	
##	CSI022	0.0000000000	0.000000e+00	0	0	2.151556e-05	
##	CSI044	0.0000000000	0.000000e+00	0	0	0.000000e+00	
##	CSI055	0.0000000000	0.000000e+00	0	0	0.000000e+00	
##	CSI065	0.0000000000	0.000000e+00	0	0	0.000000e+00	
##	CSI076	0.0000000000	0.000000e+00	0	0	0.000000e+00	
##		0tu05794	0tu05795	0tu05796	0tu05797	0tu05798	0tu05799
##	CSI001	2.345326e-05	0	2.345326e-05	0	0	0.000000e+00
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI076	5.781349e-05	0	0.000000e+00	0	0	0.000000e+00
##		0tu05800	0tu05801	0tu05802	0tu05803	0tu05804	0tu05805
##	CSI001	0	4.690652e-05	2.345326e-05	2.345326e-05	0	0
##	CSI012	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0

##	CSI022	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI044	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI055	0	0.000000e+00	0.000000e+00	4.302833e-05	0	0
##	CSI065	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI076	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	0tu05806	0tu05807	0tu05808	0tu05809	0tu05810	0tu05811	
##	CSI001	0	0.000000e+00	0	0.0000000000	0.0000000000	0
##	CSI012	0	3.449941e-05	0	0.0000000000	0.0000000000	0
##	CSI022	0	0.000000e+00	0	0.0000000000	0.0000000000	0
##	CSI044	0	0.000000e+00	0	0.0000000000	0.0000000000	0
##	CSI055	0	0.000000e+00	0	0.0000000000	0.0000000000	0
##	CSI065	0	0.000000e+00	0	0.0000000000	0.0000000000	0
##	CSI076	0	0.000000e+00	0	0.0000000000	0.0000000000	0
##	0tu05812	0tu05813	0tu05814	0tu05815	0tu05816	0tu05817	0tu05818
##	CSI001	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0.000000e+00	0	0
##	0tu05819	0tu05820	0tu05821	0tu05822	0tu05823	0tu05824	
##	CSI001	0	0	0	0.000000e+00	0	0.0000000000
##	CSI012	0	0	1.724971e-05	0	0	0.0000000000
##	CSI022	0	0	0.000000e+00	0	0	0.0000000000
##	CSI044	0	0	0.000000e+00	0	0	0.0000000000
##	CSI055	0	0	0.000000e+00	0	0	0.0002151417
##	CSI065	0	0	0.000000e+00	0	0	0.0000000000
##	CSI076	0	0	0.000000e+00	0	0	0.0000000000
##	0tu05825	0tu05826	0tu05827	0tu05828	0tu05829	0tu05830	0tu05831
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##	0tu05832	0tu05833	0tu05834	0tu05835	0tu05836		
##	CSI001	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI012	0	0.000000e+00	0.000000e+00	3.449941e-05	0.000000e+00	
##	CSI022	0	0.000000e+00	6.454667e-05	0.000000e+00	0.000000e+00	
##	CSI044	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI055	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI065	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI076	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	0tu05837	0tu05838	0tu05839	0tu05840	0tu05841	0tu05842	
##	CSI001	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI012	0	0	0	3.449941e-05	0	0.000000e+00
##	CSI022	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI044	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI055	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI076	0	0	0	0.000000e+00	0	0.000000e+00
##	0tu05843	0tu05844	0tu05845	0tu05846	0tu05847	0tu05848	0tu05849

##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu05850	0tu05851	0tu05852	0tu05853	0tu05854	0tu05855
##	CSI001	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI012	1.724971e-05	0	0.000000e+00	0	0.000000e+00	0
##	CSI022	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI055	2.151417e-05	0	2.151417e-05	0	0.000000e+00	0
##	CSI065	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI076	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##		0tu05856	0tu05857	0tu05858	0tu05859	0tu05860	0tu05861
##	CSI001	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI012	0	0	1.724971e-05	0.000000e+00	0	0
##	CSI022	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI044	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI055	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI065	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI076	0	0	0.000000e+00	0.000000e+00	0	0
##		0tu05862	0tu05863	0tu05864	0tu05865	0tu05866	0tu05867
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu05869	0tu05870	0tu05871	0tu05872	0tu05873	0tu05874
##	CSI001	0	2.345326e-05	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	4.302833e-05	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0
##		0tu05876	0tu05877	0tu05878	0tu05879	0tu05880	0tu05881
##	CSI001	0	0	0	0	4.690652e-05	0
##	CSI012	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	2.151556e-05	0
##	CSI044	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0.000000e+00	0
##		0tu05882	0tu05883	0tu05884	0tu05885	0tu05886	0tu05887
##	CSI001	0.000000e+00	0	0	0.0000000000	0	0.000000e+00
##	CSI012	3.449941e-05	0	0	0.0000000000	0	1.724971e-05
##	CSI022	0.000000e+00	0	0	0.0000000000	0	0.000000e+00
##	CSI044	0.000000e+00	0	0	0.0000000000	0	0.000000e+00
##	CSI055	0.000000e+00	0	0	0.0001075708	0	0.000000e+00
##	CSI065	0.000000e+00	0	0	0.0000000000	0	0.000000e+00

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## CSI076 0.000000e+00      0      0 0.0000000000      0 0.000000e+00
##      0tu05888 0tu05889 0tu05890 0tu05891 0tu05892 0tu05893
## CSI001 0.000000e+00      0      0      0      0      0
## CSI012 1.724971e-05      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0
## CSI055 0.000000e+00      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0
##      0tu05894 0tu05895 0tu05896      0tu05897      0tu05898
## CSI001 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI012 0.000000e+00      0      0 5.174912e-05 0.000000e+00
## CSI022 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00      0      0 0.000000e+00 0.000000e+00
##      0tu05899 0tu05900      0tu05901      0tu05902 0tu05903
## CSI001 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI012 0.000000e+00      0 1.724971e-05 0.000000e+00      0
## CSI022 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI044 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI055 1.075708e-04      0 1.290850e-04 2.151417e-05      0
## CSI065 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI076 0.000000e+00      0 0.000000e+00 2.890675e-05      0
##      0tu05904 0tu05905 0tu05906      0tu05907      0tu05908
## CSI001 0.000000e+00      0      0 0.0000000000 0.000000e+00
## CSI012 0.000000e+00      0      0 0.0000000000 0.000000e+00
## CSI022 0.000000e+00      0      0 0.0000000000 0.000000e+00
## CSI044 0.000000e+00      0      0 0.0000000000 0.000000e+00
## CSI055 0.000000e+00      0      0 0.0001721133 4.302833e-05
## CSI065 7.56401e-05      0      0 0.0000000000 0.000000e+00
## CSI076 0.000000e+00      0      0 0.0000000000 5.781349e-05
##      0tu05909 0tu05910 0tu05911 0tu05912 0tu05913 0tu05914 0tu05915
## CSI001 0.000000e+00      0      0      0      0      0      0
## CSI012 0.000000e+00      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 4.302833e-05      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0      0
##      0tu05916 0tu05917 0tu05918 0tu05919      0tu05920      0tu05921
## CSI001      0      0      0      0 0.000000e+00 0.000000e+00
## CSI012      0      0      0      0 0.000000e+00 0.000000e+00
## CSI022      0      0      0      0 0.000000e+00 0.000000e+00
## CSI044      0      0      0      0 0.000000e+00 0.000000e+00
## CSI055      0      0      0      0 0.000000e+00 0.000000e+00
## CSI065      0      0      0      0 0.000000e+00 0.000000e+00
## CSI076      0      0      0      0 2.890675e-05 0.000000e+00
##      0tu05922      0tu05923 0tu05924 0tu05925 0tu05926 0tu05927
## CSI001      0 0.000000e+00      0      0      0      0
## CSI012      0 0.000000e+00      0      0      0      0
## CSI022      0 0.000000e+00      0      0      0      0
## CSI044      0 0.000000e+00      0      0      0      0

```



##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0
##		0tu05928	0tu05929	0tu05930	0tu05931	0tu05932	0tu05933
##	CSI001	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI012	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	6.454667e-05	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI055	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI065	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##		0tu05934	0tu05935	0tu05936	0tu05937	0tu05938	0tu05939
##	CSI001	0	0	0	9.381303e-05	0	0
##	CSI012	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0.000000e+00	0	0
##		0tu05940	0tu05941	0tu05942	0tu05943	0tu05944	
##	CSI001	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI012	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI022	0.000000e+00	0.000000e+00	2.151556e-05	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI055	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI076	2.890675e-05	2.890675e-05	0.000000e+00	0	0	
##		0tu05945	0tu05946	0tu05947	0tu05948	0tu05949	0tu05950
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	2.890675e-05	0	0	0	0	0
##		0tu05952	0tu05953	0tu05954	0tu05955	0tu05956	0tu05957
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		0tu05958	0tu05959	0tu05960	0tu05961	0tu05962	
##	CSI001	0.0000000000	2.345326e-05	0	0.000000e+00	0.000000e+00	
##	CSI012	0.0000000000	5.174912e-05	0	0.000000e+00	1.724971e-05	
##	CSI022	0.0000000000	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI044	0.0000000000	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI055	0.0001936275	0.000000e+00	0	4.302833e-05	0.000000e+00	
##	CSI065	0.0000000000	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI076	0.0000000000	0.000000e+00	0	0.000000e+00	0.000000e+00	
##		0tu05963	0tu05964	0tu05965	0tu05966	0tu05967	0tu05968
##	CSI001	0	0	0	0.0001641728	0	0
##	CSI012	0	0	0	0.0000000000	0	0

##	CSI022	0	0	0	0.0000000000	0	0
##	CSI044	0	0	0	0.0000000000	0	0
##	CSI055	0	0	0	0.0000000000	0	0
##	CSI065	0	0	0	0.0000000000	0	0
##	CSI076	0	0	0	0.0000000000	0	0
##		0tu05969	0tu05970	0tu05971	0tu05972	0tu05973	
##	CSI001	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI022	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0.000000e+00	2.890675e-05	0	0.000000e+00	0	
##		0tu05974	0tu05975	0tu05976	0tu05977	0tu05978	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0.0000000000	
##	CSI012	1.724971e-05	0	0.000000e+00	0	0.0000000000	
##	CSI022	0.000000e+00	0	0.000000e+00	0	0.0001290933	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0.0000000000	
##	CSI055	0.000000e+00	0	0.000000e+00	0	0.0000000000	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0.0000000000	
##	CSI076	0.000000e+00	0	5.781349e-05	0	0.0000000000	
##		0tu05979	0tu05980	0tu05981	0tu05982	0tu05983	0tu05984
##	CSI001	4.690652e-05	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		0tu05986	0tu05987	0tu05988	0tu05989	0tu05990	0tu05991
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI012	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI055	0.000000e+00	8.605667e-05	0	0	0	0
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu05992	0tu05993	0tu05994	0tu05995	0tu05996	0tu05997
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu05999	0tu06000	0tu06001	0tu06002	0tu06003	0tu06004
##	CSI001	0.000000e+00	0	0	0.000000e+00	4.690652e-05	0
##	CSI012	0.000000e+00	0	0	3.449941e-05	5.174912e-05	0
##	CSI022	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI044	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI055	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI065	0.000000e+00	0	0	3.782005e-05	0.000000e+00	0
##	CSI076	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##		0tu06005	0tu06006	0tu06007	0tu06008	0tu06009	0tu06010

##	CSI001	0.0000000000	0	0	2.345326e-05	0	0	
##	CSI012	0.0000000000	0	0	0.000000e+00	0	0	
##	CSI022	0.0000000000	0	0	0.000000e+00	0	0	
##	CSI044	0.0000000000	0	0	0.000000e+00	0	0	
##	CSI055	0.0000000000	0	0	0.000000e+00	0	0	
##	CSI065	0.0004160206	0	0	0.000000e+00	0	0	
##	CSI076	0.0000000000	0	0	0.000000e+00	0	0	
##		0tu06011	0tu06012	0tu06013	0tu06014	0tu06015	0tu06016	0tu06017
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	6.454667e-05	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		0tu06018	0tu06019	0tu06020	0tu06021	0tu06022	0tu06023	
##	CSI001	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI012	0	1.724971e-05	0	1.724971e-05	0	0	
##	CSI022	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI044	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI055	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI065	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI076	0	0.000000e+00	0	0.000000e+00	0	0	
##		0tu06024	0tu06025	0tu06026	0tu06027	0tu06028	0tu06029	
##	CSI001	0	0	0	0.000000e+00	2.345326e-05	1.876261e-04	
##	CSI012	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI022	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	3.943140e-05	0.000000e+00	
##	CSI055	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	3.782005e-05	
##	CSI076	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##		0tu06030	0tu06031	0tu06032	0tu06033	0tu06034	0tu06035	0tu06036
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	3.449941e-05	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu06037	0tu06038	0tu06039	0tu06040	0tu06041	0tu06042	
##	CSI001	0	0	0.000000e+00	7.035977e-05	0	0	
##	CSI012	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI022	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI044	0	0	1.97157e-05	0.000000e+00	0	0	
##	CSI055	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI065	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI076	0	0	0.000000e+00	0.000000e+00	0	0	
##		0tu06043	0tu06044	0tu06045	0tu06046	0tu06047	0tu06048	0tu06049
##	CSI001	0.0000000000	0	0	0	0	0	0
##	CSI012	0.0000000000	0	0	0	0	0	0
##	CSI022	0.0000000000	0	0	0	0	0	0
##	CSI044	0.0000000000	0	0	0	0	0	0
##	CSI055	0.0000000000	0	0	0	0	0	0
##	CSI065	0.0000000000	0	0	0	0	0	0

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## CSI076 0.0000000000      0      0      0      0      0      0
##      0tu06050 0tu06051 0tu06052      0tu06053 0tu06054 0tu06055
## CSI001      0      0      0 0.0000000000      0      0
## CSI012      0      0      0 0.0000000000      0      0
## CSI022      0      0      0 0.0000000000      0      0
## CSI044      0      0      0 0.0000000000      0      0
## CSI055      0      0      0 0.0001075708      0      0
## CSI065      0      0      0 0.0000000000      0      0
## CSI076      0      0      0 0.0000000000      0      0
##      0tu06056 0tu06057 0tu06058 0tu06059 0tu06060 0tu06061 0tu06062
## CSI001 0.000000e+00      0      0      0      0      0      0
## CSI012 0.000000e+00      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 0.000000e+00      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 8.672024e-05      0      0      0      0      0      0
##      0tu06063 0tu06064 0tu06065 0tu06066 0tu06067 0tu06068 0tu06069
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu06070 0tu06071 0tu06072 0tu06073 0tu06074 0tu06075 0tu06076
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu06077 0tu06078 0tu06079 0tu06080      0tu06081 0tu06082 0tu06083
## CSI001      0      0      0      0 0.000000e+00      0      0
## CSI012      0      0      0      0 0.000000e+00      0      0
## CSI022      0      0      0      0 0.000000e+00      0      0
## CSI044      0      0      0      0 0.000000e+00      0      0
## CSI055      0      0      0      0 0.000000e+00      0      0
## CSI065      0      0      0      0 0.000000e+00      0      0
## CSI076      0      0      0      0 0.000000e+00      0      0
##      0tu06084 0tu06085 0tu06086 0tu06087 0tu06088      0tu06089 0tu06090
## CSI001      0      0      0      0      0 2.345326e-05      0
## CSI012      0      0      0      0      0 5.174912e-05      0
## CSI022      0      0      0      0      0 0.000000e+00      0
## CSI044      0      0      0      0      0 0.000000e+00      0
## CSI055      0      0      0      0      0 0.000000e+00      0
## CSI065      0      0      0      0      0 0.000000e+00      0
## CSI076      0      0      0      0      0 0.000000e+00      0
##      0tu06091 0tu06092      0tu06093 0tu06094      0tu06095 0tu06096
## CSI001      0      0 0.000000e+00      0 0.000000e+00      0
## CSI012      0      0 0.000000e+00      0 0.000000e+00      0
## CSI022      0      0 1.075778e-04      0 0.000000e+00      0
## CSI044      0      0 0.000000e+00      0 0.000000e+00      0

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## CSI055      0      0 0.000000e+00      0 0.000000e+00      0
## CSI065      0      0 0.000000e+00      0 0.000000e+00      0
## CSI076      0      0 0.000000e+00      0 0.000000e+00      0
##      0tu06097 0tu06098 0tu06099 0tu06100      0tu06101 0tu06102 0tu06103
## CSI001      0      0      0      0 0.000000e+00      0      0
## CSI012      0      0      0      0 0.000000e+00      0      0
## CSI022      0      0      0      0 0.000000e+00      0      0
## CSI044      0      0      0      0 0.000000e+00      0      0
## CSI055      0      0      0      0 0.000000e+00      0      0
## CSI065      0      0      0      0 0.000000e+00      0      0
## CSI076      0      0      0      0 2.890675e-05      0      0
##      0tu06104 0tu06105 0tu06106 0tu06107 0tu06108      0tu06109
## CSI001 0.000000e+00      0      0      0      0 0.000000e+00
## CSI012 0.000000e+00      0      0      0      0 0.000000e+00
## CSI022 0.000000e+00      0      0      0      0 0.000000e+00
## CSI044 1.97157e-05      0      0      0      0 0.000000e+00
## CSI055 0.000000e+00      0      0      0      0 0.000000e+00
## CSI065 0.000000e+00      0      0      0      0 0.000000e+00
## CSI076 0.000000e+00      0      0      0      0 0.000000e+00
##      0tu06110      0tu06111 0tu06112 0tu06113 0tu06114 0tu06115 0tu06116
## CSI001      0 0.0000000000      0      0      0      0      0
## CSI012      0 0.0001897468      0      0      0      0      0
## CSI022      0 0.0000000000      0      0      0      0      0
## CSI044      0 0.0000000000      0      0      0      0      0
## CSI055      0 0.0000000000      0      0      0      0      0
## CSI065      0 0.0000000000      0      0      0      0      0
## CSI076      0 0.0000000000      0      0      0      0      0
##      0tu06117 0tu06118 0tu06119 0tu06120 0tu06121 0tu06122 0tu06123
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu06124 0tu06125 0tu06126 0tu06127 0tu06128      0tu06129
## CSI001 0.0000000000      0      0      0      0 0.000000e+00
## CSI012 0.0000000000      0      0      0      0 0.000000e+00
## CSI022 0.0001075778      0      0      0      0 0.000000e+00
## CSI044 0.0000000000      0      0      0      0 0.000000e+00
## CSI055 0.0000000000      0      0      0      0 2.151417e-05
## CSI065 0.0000000000      0      0      0      0 0.000000e+00
## CSI076 0.0000000000      0      0      0      0 0.000000e+00
##      0tu06130      0tu06131 0tu06132 0tu06133 0tu06134      0tu06135
## CSI001      0 0.000000e+00      0      0      0 0.000000e+00
## CSI012      0 1.724971e-05      0      0      0 0.000000e+00
## CSI022      0 0.000000e+00      0      0      0 0.000000e+00
## CSI044      0 0.000000e+00      0      0      0 0.000000e+00
## CSI055      0 0.000000e+00      0      0      0 4.302833e-05
## CSI065      0 0.000000e+00      0      0      0 0.000000e+00
## CSI076      0 0.000000e+00      0      0      0 0.000000e+00
##      0tu06136 0tu06137 0tu06138      0tu06139      0tu06140 0tu06141
## CSI001      0      0      0 4.690652e-05 4.690652e-05      0
## CSI012      0      0      0 0.000000e+00 3.449941e-05      0

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##	CSI022	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI055	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI076	0	0	0	0.000000e+00	0.000000e+00	0	
##		Otu06142	Otu06143	Otu06144	Otu06145	Otu06146	Otu06147	Otu06148
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu06149	Otu06150	Otu06151	Otu06152	Otu06153	Otu06154	
##	CSI001	0	0	0	0	0.000000e+00	2.345326e-05	
##	CSI012	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI022	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI044	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI055	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI065	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI076	0	0	0	0	0.000000e+00	0.000000e+00	
##		Otu06155	Otu06156	Otu06157	Otu06158	Otu06159	Otu06160	
##	CSI001	0	0	0	0	0	0.000000e+00	
##	CSI012	0	0	0	0	0	0.000000e+00	
##	CSI022	0	0	0	0	0	2.151556e-05	
##	CSI044	0	0	0	0	0	0.000000e+00	
##	CSI055	0	0	0	0	0	0.000000e+00	
##	CSI065	0	0	0	0	0	0.000000e+00	
##	CSI076	0	0	0	0	0	0.000000e+00	
##		Otu06161	Otu06162	Otu06163	Otu06164	Otu06165	Otu06166	
##	CSI001	4.690652e-05	0	0	2.345326e-05	0.000000e+00	0	
##	CSI012	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##	CSI022	0.000000e+00	0	0	0.000000e+00	2.151556e-05	0	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##	CSI055	4.302833e-05	0	0	0.000000e+00	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0	0.000000e+00	7.564010e-05	0	
##	CSI076	0.000000e+00	0	0	0.000000e+00	5.781349e-05	0	
##		Otu06167	Otu06168	Otu06169	Otu06170	Otu06171	Otu06172	Otu06173
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu06174	Otu06175	Otu06176	Otu06177	Otu06178		
##	CSI001	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI012	0.000000e+00	0	0.000000e+00	5.174912e-05	0.000000e+00		
##	CSI022	0.000000e+00	0	0.000000e+00	0.000000e+00	2.151556e-05		
##	CSI044	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI055	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI065	0.000000e+00	0	0.000000e+00	7.564010e-05	0.000000e+00		
##	CSI076	2.890675e-05	0	0.000000e+00	0.000000e+00	0.000000e+00		
##		Otu06179	Otu06180	Otu06181	Otu06182	Otu06183	Otu06184	

##	CSI001	0	0	0	0	9.381303e-05	2.345326e-05
##	CSI012	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI022	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI044	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI055	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI065	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI076	0	0	0	0	0.000000e+00	0.000000e+00
##		0tu06185	0tu06186	0tu06187	0tu06188	0tu06189	0tu06190
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu06192	0tu06193	0tu06194	0tu06195	0tu06196	0tu06197
##	CSI001	0.000000e+00	0	0	0	0	1.172663e-04
##	CSI012	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI022	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI044	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI055	4.302833e-05	0	0	0	0	0.000000e+00
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI076	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu06198	0tu06199	0tu06200	0tu06201	0tu06202	0tu06203
##	CSI001	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI012	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI022	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI044	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI055	0	0.000000e+00	0	0	0	2.151417e-05
##	CSI065	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI076	0	5.781349e-05	0	0	0	0.000000e+00
##		0tu06204	0tu06205	0tu06206	0tu06207	0tu06208	0tu06209
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu06211	0tu06212	0tu06213	0tu06214	0tu06215	0tu06216
##	CSI001	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI012	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI022	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI044	0	0.000000e+00	0	1.971570e-04	0	0
##	CSI055	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI065	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI076	0	0.000000e+00	0	0.000000e+00	0	0
##		0tu06217	0tu06218	0tu06219	0tu06220	0tu06221	0tu06222
##	CSI001	0	0.000000e+00	0	0	0	7.035977e-05
##	CSI012	0	5.174912e-05	0	0	0	0.000000e+00
##	CSI022	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI044	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI055	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI065	0	0.000000e+00	0	0	0	0.000000e+00

## CSI076	0	0.000000e+00	0	0	0	0.000000e+00
##	0tu06223	0tu06224	0tu06225	0tu06226	0tu06227	0tu06228 0tu06229
## CSI001	0	0	0	0	0	0.000000e+00 0
## CSI012	0	0	0	0	0	5.174912e-05 0
## CSI022	0	0	0	0	0	0.000000e+00 0
## CSI044	0	0	0	0	0	0.000000e+00 0
## CSI055	0	0	0	0	0	0.000000e+00 0
## CSI065	0	0	0	0	0	0.000000e+00 0
## CSI076	0	0	0	0	0	0.000000e+00 0
##	0tu06230	0tu06231	0tu06232	0tu06233	0tu06234	0tu06235
## CSI001	0.000000e+00	0	1.407195e-04	0	0	0
## CSI012	0.000000e+00	0	0.000000e+00	0	0	0
## CSI022	0.000000e+00	0	0.000000e+00	0	0	0
## CSI044	0.000000e+00	0	0.000000e+00	0	0	0
## CSI055	0.000000e+00	0	0.000000e+00	0	0	0
## CSI065	0.000000e+00	0	0.000000e+00	0	0	0
## CSI076	0.000000e+00	0	0.000000e+00	0	0	0
##	0tu06236	0tu06237	0tu06238	0tu06239	0tu06240	0tu06241 0tu06242
## CSI001	0	0	0	0	0.000000e+00	0 0
## CSI012	0	0	0	0	0.000000e+00	0 0
## CSI022	0	0	0	0	0.000000e+00	0 0
## CSI044	0	0	0	0	0.000000e+00	0 0
## CSI055	0	0	0	0	0.000000e+00	0 0
## CSI065	0	0	0	0	0.000000e+00	0 0
## CSI076	0	0	0	0	0.000000e+00	0 0
##	0tu06243	0tu06244	0tu06245	0tu06246	0tu06247	0tu06248
## CSI001	0	2.345326e-05	0	0	0.000000e+00	0
## CSI012	0	1.724971e-05	0	0	3.449941e-05	0
## CSI022	0	0.000000e+00	0	0	0.000000e+00	0
## CSI044	0	0.000000e+00	0	0	0.000000e+00	0
## CSI055	0	0.000000e+00	0	0	0.000000e+00	0
## CSI065	0	0.000000e+00	0	0	0.000000e+00	0
## CSI076	0	0.000000e+00	0	0	0.000000e+00	0
##	0tu06249	0tu06250	0tu06251	0tu06252	0tu06253	0tu06254
## CSI001	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
## CSI012	1.724971e-05	0	0.000000e+00	0	1.724971e-05	0
## CSI022	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
## CSI044	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
## CSI055	0.000000e+00	0	1.075708e-04	0	0.000000e+00	0
## CSI065	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
## CSI076	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	0tu06255	0tu06256	0tu06257	0tu06258	0tu06259	0tu06260
## CSI001	0	0	0.000000e+00	0.000000000	0	0.0000000000
## CSI012	0	0	3.449941e-05	0.000000000	0	0.0000000000
## CSI022	0	0	0.000000e+00	0.000000000	0	0.0000000000
## CSI044	0	0	0.000000e+00	0.000000000	0	0.0000000000
## CSI055	0	0	0.000000e+00	0.000000000	0	0.0000000000
## CSI065	0	0	0.000000e+00	0.000000000	0	0.0000000000
## CSI076	0	0	0.000000e+00	0.000231254	0	0.0001445337
##	0tu06261	0tu06262	0tu06263	0tu06264	0tu06265	0tu06266 0tu06267
## CSI001	0	0	0	0	0	0.000000e+00 0
## CSI012	0	0	0	0	0	0.000000e+00 0
## CSI022	0	0	0	0	0	0.000000e+00 0
## CSI044	0	0	0	0	0	0.000000e+00 0



##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu06268	0tu06269	0tu06270	0tu06271	0tu06272	0tu06273	0tu06274
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu06275	0tu06276	0tu06277	0tu06278	0tu06279	0tu06280	
##	CSI001	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI012	0	5.174912e-05	0	0.000000e+00	0	0	
##	CSI022	0	2.151556e-05	0	0.000000e+00	0	0	
##	CSI044	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI055	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI065	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI076	0	0.000000e+00	0	0.000000e+00	0	0	
##		0tu06281	0tu06282	0tu06283	0tu06284	0tu06285	0tu06286	0tu06287
##	CSI001	0	0	0	7.035977e-05	0	0	0
##	CSI012	0	0	0	1.724971e-05	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		0tu06288	0tu06289	0tu06290	0tu06291	0tu06292	0tu06293	
##	CSI001	0	0.000000e+00	0	0	2.345326e-05	0.000000e+00	
##	CSI012	0	0.000000e+00	0	0	3.449941e-05	1.724971e-05	
##	CSI022	0	2.151556e-05	0	0	0.000000e+00	0.000000e+00	
##	CSI044	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI055	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI065	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI076	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##		0tu06294	0tu06295	0tu06296	0tu06297	0tu06298	0tu06299	
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0	0	3.782005e-05	0	
##	CSI076	0.000000e+00	0	0	0	2.890675e-05	0	
##		0tu06300	0tu06301	0tu06302	0tu06303	0tu06304	0tu06305	
##	CSI001	2.345326e-05	0	0	0.000000e+00	0	0	
##	CSI012	1.724971e-05	0	0	0.000000e+00	0	0	
##	CSI022	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI055	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0	
##		0tu06306	0tu06307	0tu06308	0tu06309	0tu06310	0tu06311	0tu06312
##	CSI001	0	0	0	0	0	0	7.035977e-05
##	CSI012	0	0	0	0	0	0	0.000000e+00

##	CSI022	0	0	0	0	0	0 0.000000e+00
##	CSI044	0	0	0	0	0	0 0.000000e+00
##	CSI055	0	0	0	0	0	0 0.000000e+00
##	CSI065	0	0	0	0	0	0 0.000000e+00
##	CSI076	0	0	0	0	0	0 0.000000e+00
##		0tu06313	0tu06314	0tu06315	0tu06316	0tu06317	0tu06318 0tu06319
##	CSI001	0	0 0.000000e+00		0	0	0 0
##	CSI012	0	0 0.000000e+00		0	0	0 0
##	CSI022	0	0 0.000000e+00		0	0	0 0
##	CSI044	0	0 0.000000e+00		0	0	0 0
##	CSI055	0	0 2.151417e-05		0	0	0 0
##	CSI065	0	0 0.000000e+00		0	0	0 0
##	CSI076	0	0 0.000000e+00		0	0	0 0
##		0tu06320	0tu06321 0tu06322	0tu06323	0tu06324	0tu06325	
##	CSI001	0 0.000000e+00	0 0.000000e+00		0	0	
##	CSI012	0 1.724971e-05	0 0.000000e+00		0	0	
##	CSI022	0 0.000000e+00	0 0.000000e+00		0	0	
##	CSI044	0 0.000000e+00	0 0.000000e+00		0	0	
##	CSI055	0 0.000000e+00	0 0.000000e+00		0	0	
##	CSI065	0 0.000000e+00	0 0.000000e+00		0	0	
##	CSI076	0 0.000000e+00	0 0.000000e+00		0	0	
##		0tu06326 0tu06327	0tu06328	0tu06329	0tu06330	0tu06331	0tu06332
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		0tu06333	0tu06334 0tu06335	0tu06336	0tu06337	0tu06338	
##	CSI001	0 0.000000e+00	0	0	0 4.690652e-05		
##	CSI012	0 0.000000e+00	0	0	0 3.449941e-05		
##	CSI022	0 0.000000e+00	0	0	0 0.000000e+00		
##	CSI044	0 0.000000e+00	0	0	0 0.000000e+00		
##	CSI055	0 0.000000e+00	0	0	0 0.000000e+00		
##	CSI065	0 0.000000e+00	0	0	0 0.000000e+00		
##	CSI076	0 5.781349e-05	0	0	0 0.000000e+00		
##		0tu06339 0tu06340	0tu06341	0tu06342	0tu06343	0tu06344	
##	CSI001	0	0 0.000000e+00	0	0	0	
##	CSI012	0	0 0.000000e+00	0	0	0	
##	CSI022	0	0 0.000000e+00	0	0	0	
##	CSI044	0	0 0.000000e+00	0	0	0	
##	CSI055	0	0 0.000000e+00	0	0	0	
##	CSI065	0	0 0.000000e+00	0	0	0	
##	CSI076	0	0 0.000000e+00	0	0	0	
##		0tu06345 0tu06346	0tu06347	0tu06348	0tu06349	0tu06350	
##	CSI001	0.000000e+00	0 0.000000e+00		0	0	0
##	CSI012	0.000000e+00	0 0.000000e+00		0	0	0
##	CSI022	0.000000e+00	0 0.000000e+00		0	0	0
##	CSI044	0.000000e+00	0 0.000000e+00		0	0	0
##	CSI055	0.000000e+00	0 0.000000e+00		0	0	0
##	CSI065	0.000000e+00	0 3.782005e-05		0	0	0
##	CSI076	0.000000e+00	0 0.000000e+00		0	0	0
##		0tu06351 0tu06352	0tu06353 0tu06354	0tu06355	0tu06356		

##	CSI001	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI012	0	0	0	0	0.000000e+00	3.449941e-05
##	CSI022	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI044	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI055	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI065	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI076	0	0	0	0	0.000000e+00	0.000000e+00
##	0tu06357	0tu06358	0tu06359	0tu06360	0tu06361	0tu06362	
##	CSI001	0	0.0000000000	0	0.000000e+00	0.000000e+00	0
##	CSI012	0	0.0000000000	0	0.000000e+00	0.000000e+00	0
##	CSI022	0	0.0000000000	0	2.151556e-05	0.000000e+00	0
##	CSI044	0	0.0000000000	0	0.000000e+00	0.000000e+00	0
##	CSI055	0	0.0000000000	0	2.151417e-05	2.151417e-05	0
##	CSI065	0	0.0000000000	0	0.000000e+00	0.000000e+00	0
##	CSI076	0	0.0000000000	0	0.000000e+00	2.890675e-05	0
##	0tu06363	0tu06364	0tu06365	0tu06366	0tu06367	0tu06368	0tu06369
##	CSI001	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	2.151417e-05	0
##	CSI065	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0.000000e+00	0
##	0tu06370	0tu06371	0tu06372	0tu06373	0tu06374	0tu06375	
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	
##	CSI012	0.000000e+00	0	0	0	1.724971e-05	
##	CSI022	0.000000e+00	0	0	0	4.303111e-05	
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	
##	CSI055	6.454250e-05	0	0	0	0.000000e+00	
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	
##	CSI076	0.000000e+00	0	0	0	0.000000e+00	
##	0tu06376	0tu06377	0tu06378	0tu06379	0tu06380	0tu06381	0tu06382
##	CSI001	0	0.000000e+00	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0
##	0tu06383	0tu06384	0tu06385	0tu06386	0tu06387	0tu06388	
##	CSI001	0.0000000000	0	0.000000e+00	0	0	
##	CSI012	0.0000000000	0	0.000000e+00	0	0	
##	CSI022	0.0000000000	0	0.000000e+00	0	0	
##	CSI044	0.0000000000	0	0.000000e+00	0	0	
##	CSI055	0.0000000000	0	0.000000e+00	0	0	
##	CSI065	0.0000000000	0	0.000000e+00	0	0	
##	CSI076	0.000115627	0	0.000000e+00	0	0	
##	0tu06389	0tu06390	0tu06391	0tu06392	0tu06393	0tu06394	0tu06395
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##		0tu06396	0tu06397	0tu06398	0tu06399	0tu06400	0tu06401	0tu06402
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	3.449941e-05
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu06403	0tu06404	0tu06405	0tu06406	0tu06407	0tu06408	0tu06409
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	2.890675e-05
##		0tu06410	0tu06411	0tu06412	0tu06413	0tu06414	0tu06415	
##	CSI001	0	0	0	0	0.000000e+00	0	
##	CSI012	0	0	0	0	1.724971e-05	0	
##	CSI022	0	0	0	0	0.000000e+00	0	
##	CSI044	0	0	0	0	0.000000e+00	0	
##	CSI055	0	0	0	0	0.000000e+00	0	
##	CSI065	0	0	0	0	0.000000e+00	0	
##	CSI076	0	0	0	0	0.000000e+00	0	
##		0tu06416	0tu06417	0tu06418	0tu06419	0tu06420	0tu06421	
##	CSI001	4.690652e-05	0.000000e+00	0	0	0.000000e+00	0	
##	CSI012	3.449941e-05	0.000000e+00	0	0	1.724971e-05	0	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI076	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##		0tu06422	0tu06423	0tu06424	0tu06425	0tu06426	0tu06427	
##	CSI001	0	4.690652e-05	0	0	0.000000e+00	0	
##	CSI012	0	1.724971e-05	0	0	0.000000e+00	0	
##	CSI022	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI044	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI055	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI065	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI076	0	0.000000e+00	0	0	0.000000e+00	0	
##		0tu06428	0tu06429	0tu06430	0tu06431	0tu06432	0tu06433	
##	CSI001	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI012	0	1.724971e-05	0	0	0.000000e+00	0	
##	CSI022	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI044	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI055	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI065	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI076	0	0.000000e+00	0	0	0.000000e+00	0	
##		0tu06434	0tu06435	0tu06436	0tu06437	0tu06438		
##	CSI001	0.000000e+00	0	0.000000e+00	0	0.000000e+00		
##	CSI012	0.000000e+00	0	0.000000e+00	0	0.000000e+00		
##	CSI022	0.000000e+00	0	0.000000e+00	0	0.000000e+00		
##	CSI044	0.000000e+00	0	0.000000e+00	0	0.000000e+00		

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## CSI055 0.000000e+00      0 4.302833e-05      0 0.000000e+00
## CSI065 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI076 0.000000e+00      0 0.000000e+00      0 0.000000e+00
##      0tu06439      0tu06440      0tu06441 0tu06442 0tu06443 0tu06444
## CSI001 2.345326e-05 0.000000e+00 0.000000e+00      0      0      0
## CSI012 0.000000e+00 0.000000e+00 0.000000e+00      0      0      0
## CSI022 0.000000e+00 0.000000e+00 0.000000e+00      0      0      0
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00      0      0      0
## CSI055 0.000000e+00 4.302833e-05 2.151417e-05      0      0      0
## CSI065 0.000000e+00 0.000000e+00 0.000000e+00      0      0      0
## CSI076 0.000000e+00 0.000000e+00 0.000000e+00      0      0      0
##      0tu06445 0tu06446 0tu06447 0tu06448 0tu06449 0tu06450 0tu06451
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu06452      0tu06453 0tu06454 0tu06455 0tu06456 0tu06457 0tu06458
## CSI001      0 0.000000e+00      0      0      0      0      0
## CSI012      0 0.000000e+00      0      0      0      0      0
## CSI022      0 0.000000e+00      0      0      0      0      0
## CSI044      0 0.000000e+00      0      0      0      0      0
## CSI055      0 0.000000e+00      0      0      0      0      0
## CSI065      0 0.000000e+00      0      0      0      0      0
## CSI076      0 0.000000e+00      0      0      0      0      0
##      0tu06459 0tu06460      0tu06461      0tu06462 0tu06463      0tu06464
## CSI001      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI012      0      0 1.724971e-05 0.000000e+00      0 0.000000e+00
## CSI022      0      0 0.000000e+00 0.000000e+00      0 2.151556e-05
## CSI044      0      0 0.000000e+00 0.000000e+00      0 1.971570e-05
## CSI055      0      0 0.000000e+00 2.151417e-05      0 0.000000e+00
## CSI065      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI076      0      0 0.000000e+00 2.890675e-05      0 0.000000e+00
##      0tu06465 0tu06466 0tu06467 0tu06468 0tu06469 0tu06470 0tu06471
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu06472 0tu06473 0tu06474 0tu06475 0tu06476 0tu06477      0tu06478
## CSI001      0      0      0      0      0      0 0.0000000000
## CSI012      0      0      0      0      0      0 0.0000000000
## CSI022      0      0      0      0      0      0 0.0000000000
## CSI044      0      0      0      0      0      0 0.0000000000
## CSI055      0      0      0      0      0      0 0.0001936275
## CSI065      0      0      0      0      0      0 0.0000000000
## CSI076      0      0      0      0      0      0 0.0000000000
##      0tu06479 0tu06480 0tu06481      0tu06482 0tu06483 0tu06484 0tu06485
## CSI001      0      0      0 0.000000e+00      0      0      0
## CSI012      0      0      0 0.000000e+00      0      0      0

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##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	2.890675e-05	0	0	0
##		0tu06486	0tu06487	0tu06488	0tu06489	0tu06490	0tu06491	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI022	2.151556e-05	0	2.151556e-05	0	0	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0	
##		0tu06492	0tu06493	0tu06494	0tu06495	0tu06496	0tu06497	
##	CSI001	0	0.000000e+00	0	0	0	0	
##	CSI012	0	0.000000e+00	0	0	0	0	
##	CSI022	0	0.000000e+00	0	0	0	0	
##	CSI044	0	0.000000e+00	0	0	0	0	
##	CSI055	0	0.000000e+00	0	0	0	0	
##	CSI065	0	0.000000e+00	0	0	0	0	
##	CSI076	0	0.000000e+00	0	0	0	0	
##		0tu06498	0tu06499	0tu06500	0tu06501	0tu06502	0tu06503	
##	CSI001	0.000000e+00	0	0	0.000000e+00	0	4.690652e-05	
##	CSI012	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI022	0.000000e+00	0	0	2.151556e-05	0	0.000000e+00	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI055	4.302833e-05	0	0	0.000000e+00	0	0.000000e+00	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##		0tu06504	0tu06505	0tu06506	0tu06507	0tu06508	0tu06509	0tu06510
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu06511	0tu06512	0tu06513	0tu06514	0tu06515	0tu06516	0tu06517
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	1.724971e-05	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu06518	0tu06519	0tu06520	0tu06521	0tu06522	0tu06523	
##	CSI001	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI012	0	0	0.000000e+00	1.724971e-05	0	0	
##	CSI022	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI044	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI055	0	0	2.151417e-05	0.000000e+00	0	0	
##	CSI065	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI076	0	0	0.000000e+00	0.000000e+00	0	0	
##		0tu06524	0tu06525	0tu06526	0tu06527	0tu06528	0tu06529	0tu06530

##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		0tu06531	0tu06532	0tu06533	0tu06534	0tu06535	0tu06536	0tu06537
##	CSI001	0	0	0 0.0000000000	0	0	0	0
##	CSI012	0	0	0 0.0000000000	0	0	0	0
##	CSI022	0	0	0 0.0000000000	0	0	0	0
##	CSI044	0	0	0 0.0000000000	0	0	0	0
##	CSI055	0	0	0 0.0001505992	0	0	0	0
##	CSI065	0	0	0 0.0000000000	0	0	0	0
##	CSI076	0	0	0 0.0000000000	0	0	0	0
##		0tu06538	0tu06539	0tu06540	0tu06541	0tu06542		
##	CSI001	0	0.000000e+00	0.000000e+00	0	0.000000e+00		
##	CSI012	0	1.724971e-05	0.000000e+00	0	1.724971e-05		
##	CSI022	0	0.000000e+00	0.000000e+00	0	2.151556e-05		
##	CSI044	0	0.000000e+00	0.000000e+00	0	0.000000e+00		
##	CSI055	0	0.000000e+00	0.000000e+00	0	4.302833e-05		
##	CSI065	0	0.000000e+00	0.000000e+00	0	3.782005e-05		
##	CSI076	0	0.000000e+00	0.000000e+00	0	0.000000e+00		
##		0tu06543	0tu06544	0tu06545	0tu06546	0tu06547	0tu06548	
##	CSI001	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI076	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##		0tu06549	0tu06550	0tu06551	0tu06552	0tu06553	0tu06554	
##	CSI001	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI012	0	0	0	0	3.449941e-05	1.724971e-05	
##	CSI022	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI044	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI055	0	0	0	0	0.000000e+00	4.302833e-05	
##	CSI065	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI076	0	0	0	0	0.000000e+00	2.890675e-05	
##		0tu06555	0tu06556	0tu06557	0tu06558	0tu06559	0tu06560	
##	CSI001	7.035977e-05	0	0	0.000000e+00	0	0	
##	CSI012	8.624853e-05	0	0	0.000000e+00	0	0	
##	CSI022	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI055	0.000000e+00	0	0	2.151417e-05	0	0	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0	
##		0tu06561	0tu06562	0tu06563	0tu06564	0tu06565	0tu06566	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI055	0.000000e+00	0	2.151417e-05	0	0	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0	

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## CSI076 0.000000e+00      0 0.000000e+00      0      0      0
##      0tu06567 0tu06568 0tu06569      0tu06570 0tu06571      0tu06572
## CSI001      0      0      0 4.690652e-05      0 0.000000e+00
## CSI012      0      0      0 1.724971e-05      0 1.724971e-05
## CSI022      0      0      0 0.000000e+00      0 0.000000e+00
## CSI044      0      0      0 0.000000e+00      0 0.000000e+00
## CSI055      0      0      0 0.000000e+00      0 0.000000e+00
## CSI065      0      0      0 0.000000e+00      0 0.000000e+00
## CSI076      0      0      0 0.000000e+00      0 0.000000e+00
##      0tu06573 0tu06574 0tu06575 0tu06576      0tu06577 0tu06578
## CSI001 0.000000e+00      0      0      0 0.000000e+00      0
## CSI012 0.000000e+00      0      0      0 3.449941e-05      0
## CSI022 0.000000e+00      0      0      0 0.000000e+00      0
## CSI044 0.000000e+00      0      0      0 0.000000e+00      0
## CSI055 0.000000e+00      0      0      0 0.000000e+00      0
## CSI065 0.000000e+00      0      0      0 0.000000e+00      0
## CSI076 0.000000e+00      0      0      0 0.000000e+00      0
##      0tu06579 0tu06580 0tu06581 0tu06582      0tu06583 0tu06584
## CSI001 0.000000e+00      0      0      0 0.000000e+00 2.345326e-05
## CSI012 1.724971e-05      0      0      0 1.724971e-05 0.000000e+00
## CSI022 2.151556e-05      0      0      0 0.000000e+00 0.000000e+00
## CSI044 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI055 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI065 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI076 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
##      0tu06585 0tu06586      0tu06587 0tu06588 0tu06589 0tu06590 0tu06591
## CSI001      0      0 0.000000e+00      0      0      0      0
## CSI012      0      0 0.000000e+00      0      0      0      0
## CSI022      0      0 0.000000e+00      0      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0      0
## CSI055      0      0 4.302833e-05      0      0      0      0
## CSI065      0      0 0.000000e+00      0      0      0      0
## CSI076      0      0 0.000000e+00      0      0      0      0
##      0tu06592 0tu06593      0tu06594 0tu06595      0tu06596 0tu06597
## CSI001      0      0 0.000000e+00      0 0.000000e+00      0
## CSI012      0      0 0.000000e+00      0 0.000000e+00      0
## CSI022      0      0 0.000000e+00      0 0.000000e+00      0
## CSI044      0      0 0.000000e+00      0 0.000000e+00      0
## CSI055      0      0 0.000000e+00      0 0.000000e+00      0
## CSI065      0      0 0.000000e+00      0 0.000000e+00      0
## CSI076      0      0 0.000000e+00      0 2.890675e-05      0
##      0tu06598 0tu06599      0tu06600 0tu06601      0tu06602 0tu06603
## CSI001      0      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI012      0      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI022      0      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI044      0      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI055      0      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI065      0      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI076      0      0 0.000000e+00      0 0.000000e+00 2.890675e-05
##      0tu06604 0tu06605 0tu06606 0tu06607 0tu06608 0tu06609      0tu06610
## CSI001      0      0      0      0      0      0 0.000000e+00
## CSI012      0      0      0      0      0      0 0.000000e+00
## CSI022      0      0      0      0      0      0 2.151556e-05
## CSI044      0      0      0      0      0      0 0.000000e+00

```



##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu06611	0tu06612	0tu06613	0tu06614	0tu06615	0tu06616	
##	CSI001	0	0	0	0.000000e+00	0	2.345326e-05	
##	CSI012	0	0	0	1.724971e-05	0	0.000000e+00	
##	CSI022	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI076	0	0	0	0.000000e+00	0	0.000000e+00	
##		0tu06617	0tu06618	0tu06619	0tu06620	0tu06621	0tu06622	
##	CSI001	0	0	0.000000e+00	2.345326e-05	0	0.000000e+00	
##	CSI012	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI022	0	0	2.151556e-05	0.000000e+00	0	0.000000e+00	
##	CSI044	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0	0.000000e+00	0.000000e+00	0	2.151417e-05	
##	CSI065	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI076	0	0	0.000000e+00	0.000000e+00	0	2.890675e-05	
##		0tu06623	0tu06624	0tu06625	0tu06626	0tu06627	0tu06628	0tu06629
##	CSI001	0	0	0	0	0	4.690652e-05	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu06630	0tu06631	0tu06632	0tu06633	0tu06634	0tu06635	
##	CSI001	0	0	0	0.0000000000	0	2.345326e-05	
##	CSI012	0	0	0	0.0000000000	0	0.000000e+00	
##	CSI022	0	0	0	0.0000000000	0	0.000000e+00	
##	CSI044	0	0	0	0.0000000000	0	0.000000e+00	
##	CSI055	0	0	0	0.0000000000	0	0.000000e+00	
##	CSI065	0	0	0	0.0000000000	0	0.000000e+00	
##	CSI076	0	0	0	0.0000000000	0	0.000000e+00	
##		0tu06636	0tu06637	0tu06638	0tu06639	0tu06640	0tu06641	
##	CSI001	0	4.690652e-05	0.000000e+00	0.000000e+00	0	0	
##	CSI012	0	0.000000e+00	1.724971e-05	0.000000e+00	0	0	
##	CSI022	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI044	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI055	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI065	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI076	0	2.890675e-05	0.000000e+00	0.000000e+00	0	0	
##		0tu06642	0tu06643	0tu06644	0tu06645	0tu06646	0tu06647	
##	CSI001	0.000000e+00	0	0.0000000000	0	0	0.00000000	
##	CSI012	0.000000e+00	0	0.0000000000	0	0	0.00000000	
##	CSI022	0.000000e+00	0	0.0000000000	0	0	0.00019364	
##	CSI044	1.97157e-05	0	0.0000000000	0	0	0.00000000	
##	CSI055	0.000000e+00	0	0.0000000000	0	0	0.00000000	
##	CSI065	0.000000e+00	0	0.0001134602	0	0	0.00000000	
##	CSI076	0.000000e+00	0	0.0000000000	0	0	0.00000000	
##		0tu06648	0tu06649	0tu06650	0tu06651	0tu06652	0tu06653	0tu06654
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0

##	CSI022	0	0.00000e+00	0	0	0	0	0
##	CSI044	0	0.00000e+00	0	0	0	0	0
##	CSI055	0	0.00000e+00	0	0	0	0	0
##	CSI065	0	7.56401e-05	0	0	0	0	0
##	CSI076	0	0.00000e+00	0	0	0	0	0
##		0tu06655	0tu06656	0tu06657	0tu06658	0tu06659	0tu06660	
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI012	0.000000e+00	1.724971e-05	0	0	0	0.000000e+00	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI055	2.151417e-05	0.000000e+00	0	0	0	0.000000e+00	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	5.781349e-05	
##		0tu06661	0tu06662	0tu06663	0tu06664	0tu06665	0tu06666	0tu06667
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu06668	0tu06669	0tu06670	0tu06671	0tu06672	0tu06673	
##	CSI001	0	0	0	2.345326e-05	0.000000e+00	0	
##	CSI012	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI022	0	0	0	0.000000e+00	2.151556e-05	0	
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI055	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI076	0	0	0	0.000000e+00	0.000000e+00	0	
##		0tu06674	0tu06675	0tu06676	0tu06677	0tu06678	0tu06679	0tu06680
##	CSI001	0	2.345326e-05	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	2.151417e-05	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu06681	0tu06682	0tu06683	0tu06684	0tu06685	0tu06686	0tu06687
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		0tu06688	0tu06689	0tu06690	0tu06691	0tu06692	0tu06693	0tu06694
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	3.449941e-05	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	1.075708e-04	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu06695	0tu06696	0tu06697	0tu06698	0tu06699	0tu06700	

##	CSI001	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI012	0.000000e+00	0	0	0	0	1.724971e-05
##	CSI022	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI044	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI055	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI076	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu06701	0tu06702	0tu06703	0tu06704	0tu06705	0tu06706
##	CSI001	2.345326e-05	0	0	0	0	0.000000e+00
##	CSI012	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI022	0.000000e+00	0	0	0	0	2.151556e-05
##	CSI044	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI055	0.000000e+00	0	0	0	0	4.302833e-05
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI076	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu06707	0tu06708	0tu06709	0tu06710	0tu06711	0tu06712
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI012	0.000000e+00	3.449941e-05	0	0	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu06713	0tu06714	0tu06715	0tu06716	0tu06717	0tu06718
##	CSI001	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	3.449941e-05
##	CSI022	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0.000000e+00
##		0tu06720	0tu06721	0tu06722	0tu06723	0tu06724	0tu06725
##	CSI001	0	0	0	2.345326e-05	0	0.000000e+00
##	CSI012	0	0	0	1.724971e-05	0	0.000000e+00
##	CSI022	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI044	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI055	0	0	0	0.000000e+00	0	2.151417e-05
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI076	0	0	0	0.000000e+00	0	5.781349e-05
##		0tu06726	0tu06727	0tu06728	0tu06729	0tu06730	0tu06731
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	7.56401e-05	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		0tu06733	0tu06734	0tu06735	0tu06736	0tu06737	0tu06738
##	CSI001	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI012	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI022	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI055	0	0	0	0.000000e+00	2.151417e-05	0
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0

##	CSI076	0	0	0	0.000000e+00	0.000000e+00	0
##		0tu06739	0tu06740	0tu06741	0tu06742	0tu06743	0tu06744
##	CSI001	0	0	0	0	0	0 0.000000e+00
##	CSI012	0	0	0	0	0	0 6.899883e-05
##	CSI022	0	0	0	0	0	0 2.151556e-05
##	CSI044	0	0	0	0	0	0 0.000000e+00
##	CSI055	0	0	0	0	0	0 0.000000e+00
##	CSI065	0	0	0	0	0	0 0.000000e+00
##	CSI076	0	0	0	0	0	0 0.000000e+00
##		0tu06746	0tu06747	0tu06748	0tu06749	0tu06750	0tu06751
##	CSI001	0.000000e+00	0.0000000000	0	0	0.000000e+00	0
##	CSI012	5.174912e-05	0.0000000000	0	0	3.449941e-05	0
##	CSI022	0.000000e+00	0.0000000000	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0.0000000000	0	0	0.000000e+00	0
##	CSI055	0.000000e+00	0.0000000000	0	0	0.000000e+00	0
##	CSI065	0.000000e+00	0.0000000000	0	0	0.000000e+00	0
##	CSI076	0.000000e+00	0.000115627	0	0	0.000000e+00	0
##		0tu06752	0tu06753	0tu06754	0tu06755	0tu06756	0tu06757
##	CSI001	0.0000000000	0	0	0	0.000000e+00	0
##	CSI012	0.0000000000	0	0	0	0.000000e+00	0
##	CSI022	0.0000000000	0	0	0	0.000000e+00	0
##	CSI044	0.0001577256	0	0	0	0.000000e+00	0
##	CSI055	0.0000000000	0	0	0	2.151417e-05	0
##	CSI065	0.0000000000	0	0	0	0.000000e+00	0
##	CSI076	0.0000000000	0	0	0	0.000000e+00	0
##		0tu06758	0tu06759	0tu06760	0tu06761	0tu06762	0tu06763
##	CSI001	2.345326e-05	0	0	0	0.000000e+00	0.000000e+00
##	CSI012	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	4.303111e-05
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI065	0.000000e+00	0	0	0	3.782005e-05	0.000000e+00
##	CSI076	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##		0tu06764	0tu06765	0tu06766	0tu06767	0tu06768	0tu06769
##	CSI001	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI012	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI022	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI055	4.302833e-05	0	0	0.000000e+00	0	0
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0
##		0tu06770	0tu06771	0tu06772	0tu06773	0tu06774	0tu06775
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu06777	0tu06778	0tu06779	0tu06780	0tu06781	0tu06782
##	CSI001	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0.000000e+00

##	CSI055	0	0	0	0	0 0.000000e+00	0
##	CSI065	0	0	0	0	0 3.782005e-05	0
##	CSI076	0	0	0	0	0 0.000000e+00	0
##	0tu06784	0tu06785	0tu06786	0tu06787	0tu06788	0tu06789	0tu06790
##	CSI001	0 0.000000e+00	0	0	0	0	0
##	CSI012	0 0.000000e+00	0	0	0	0	0
##	CSI022	0 0.000000e+00	0	0	0	0	0
##	CSI044	0 0.000000e+00	0	0	0	0	0
##	CSI055	0 0.000000e+00	0	0	0	0	0
##	CSI065	0 0.000000e+00	0	0	0	0	0
##	CSI076	0 8.672024e-05	0	0	0	0	0
##	0tu06791	0tu06792	0tu06793	0tu06794	0tu06795	0tu06796	
##	CSI001	0.000000e+00	0	0 0.000000e+00	0 0.000000e+00		
##	CSI012	0.000000e+00	0	0 1.724971e-05	0 0.000000e+00		
##	CSI022	2.151556e-05	0	0 0.000000e+00	0 6.454667e-05		
##	CSI044	0.000000e+00	0	0 0.000000e+00	0 0.000000e+00		
##	CSI055	0.000000e+00	0	0 0.000000e+00	0 0.000000e+00		
##	CSI065	0.000000e+00	0	0 0.000000e+00	0 0.000000e+00		
##	CSI076	0.000000e+00	0	0 0.000000e+00	0 0.000000e+00		
##	0tu06797	0tu06798	0tu06799	0tu06800	0tu06801	0tu06802	
##	CSI001	0	0	0 0.000000e+00	0.000000e+00	0	
##	CSI012	0	0	0 3.449941e-05	1.724971e-05	0	
##	CSI022	0	0	0 0.000000e+00	0.000000e+00	0	
##	CSI044	0	0	0 0.000000e+00	0.000000e+00	0	
##	CSI055	0	0	0 0.000000e+00	0.000000e+00	0	
##	CSI065	0	0	0 0.000000e+00	0.000000e+00	0	
##	CSI076	0	0	0 0.000000e+00	0.000000e+00	0	
##	0tu06803	0tu06804	0tu06805	0tu06806	0tu06807	0tu06808	
##	CSI001	0 7.035977e-05	0.0000000000	0	0	0	
##	CSI012	0 0.000000e+00	0.0001034982	0	0	0	
##	CSI022	0 0.000000e+00	0.0000000000	0	0	0	
##	CSI044	0 0.000000e+00	0.0000000000	0	0	0	
##	CSI055	0 0.000000e+00	0.0000000000	0	0	0	
##	CSI065	0 0.000000e+00	0.0000000000	0	0	0	
##	CSI076	0 0.000000e+00	0.0000000000	0	0	0	
##	0tu06809	0tu06810	0tu06811	0tu06812	0tu06813	0tu06814	0tu06815
##	CSI001	0	0	0	0	0 1.172663e-04	
##	CSI012	0	0	0	0	0 0.000000e+00	
##	CSI022	0	0	0	0	0 0.000000e+00	
##	CSI044	0	0	0	0	0 0.000000e+00	
##	CSI055	0	0	0	0	0 0.000000e+00	
##	CSI065	0	0	0	0	0 0.000000e+00	
##	CSI076	0	0	0	0	0 0.000000e+00	
##	0tu06816	0tu06817	0tu06818	0tu06819	0tu06820	0tu06821	
##	CSI001	0	0 0.0000000000	2.345326e-05	0	0	
##	CSI012	0	0 0.0001034982	0.000000e+00	0	0	
##	CSI022	0	0 0.0000000000	0.000000e+00	0	0	
##	CSI044	0	0 0.0000000000	0.000000e+00	0	0	
##	CSI055	0	0 0.0000000000	0.000000e+00	0	0	
##	CSI065	0	0 0.0000000000	0.000000e+00	0	0	
##	CSI076	0	0 0.0000000000	0.000000e+00	0	0	
##	0tu06822	0tu06823	0tu06824	0tu06825	0tu06826	0tu06827	
##	CSI001	0.000000e+00	0	0	0 0.000000e+00	0	
##	CSI012	0.000000e+00	0	0	0 0.000000e+00	0	

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## CSI022 2.151556e-05      0      0      0 0.000000e+00      0
## CSI044 0.000000e+00      0      0      0 0.000000e+00      0
## CSI055 0.000000e+00      0      0      0 0.000000e+00      0
## CSI065 0.000000e+00      0      0      0 0.000000e+00      0
## CSI076 0.000000e+00      0      0      0 0.000000e+00      0
##      0tu06828      0tu06829 0tu06830 0tu06831      0tu06832
## CSI001 0.0000000000 0.000000e+00      0      0 0.000000e+00
## CSI012 0.0000000000 0.000000e+00      0      0 1.724971e-05
## CSI022 0.0000000000 0.000000e+00      0      0 0.000000e+00
## CSI044 0.0000000000 0.000000e+00      0      0 0.000000e+00
## CSI055 0.0001721133 0.000000e+00      0      0 0.000000e+00
## CSI065 0.0000000000 0.000000e+00      0      0 0.000000e+00
## CSI076 0.0000000000 2.890675e-05      0      0 0.000000e+00
##      0tu06833 0tu06834 0tu06835 0tu06836 0tu06837 0tu06838 0tu06839
## CSI001 0.000000e+00      0      0      0      0      0      0
## CSI012 0.000000e+00      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 1.075708e-04      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 5.781349e-05      0      0      0      0      0      0
##      0tu06840 0tu06841 0tu06842 0tu06843 0tu06844 0tu06845 0tu06846
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu06847 0tu06848 0tu06849 0tu06850 0tu06851 0tu06852 0tu06853
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu06854 0tu06855 0tu06856 0tu06857 0tu06858 0tu06859 0tu06860
## CSI001 0.0000000000      0      0      0      0      0      0
## CSI012 0.0000000000      0      0      0      0      0      0
## CSI022 0.0000000000      0      0      0      0      0      0
## CSI044 0.0000000000      0      0      0      0      0      0
## CSI055 0.000129085      0      0      0      0      0      0
## CSI065 0.0000000000      0      0      0      0      0      0
## CSI076 0.0000000000      0      0      0      0      0      0
##      0tu06861      0tu06862 0tu06863      0tu06864      0tu06865 0tu06866
## CSI001      0 2.345326e-05      0 0.000000e+00 0.000000e+00      0
## CSI012      0 0.000000e+00      0 1.724971e-05 0.000000e+00      0
## CSI022      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI044      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI055      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI065      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI076      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
##      0tu06867      0tu06868 0tu06869 0tu06870 0tu06871 0tu06872 0tu06873

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##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	3.449941e-05	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##	0tu06874	0tu06875	0tu06876	0tu06877	0tu06878	0tu06879		
##	CSI001	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI012	0	1.724971e-05	0.000000e+00	0.000000e+00	0	0	
##	CSI022	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI044	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI055	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI065	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI076	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	0tu06880	0tu06881	0tu06882	0tu06883	0tu06884	0tu06885	0tu06886	
##	CSI001	0	0	0	0.0000000000	0	0	0
##	CSI012	0	0	0	0.0000000000	0	0	0
##	CSI022	0	0	0	0.0000000000	0	0	0
##	CSI044	0	0	0	0.0000000000	0	0	0
##	CSI055	0	0	0	0.0000000000	0	0	0
##	CSI065	0	0	0	0.0000000000	0	0	0
##	CSI076	0	0	0	0.0000000000	0	0	0
##	0tu06887	0tu06888	0tu06889	0tu06890	0tu06891	0tu06892	0tu06893	
##	CSI001	0	7.035977e-05	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##	0tu06894	0tu06895	0tu06896	0tu06897	0tu06898	0tu06899		
##	CSI001	2.345326e-05	0.000000e+00	0.000000e+00	0	0	0	
##	CSI012	0.000000e+00	0.000000e+00	1.724971e-05	0	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	CSI055	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	CSI076	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	0tu06900	0tu06901	0tu06902	0tu06903	0tu06904	0tu06905	0tu06906	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	0tu06907	0tu06908	0tu06909	0tu06910	0tu06911	0tu06912		
##	CSI001	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI012	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI022	0	0	0	0.000000e+00	0	4.303111e-05	
##	CSI044	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00	

##	CSI076	0	0	0	0.000000e+00	0	0.000000e+00
##		0tu06913	0tu06914	0tu06915	0tu06916	0tu06917	0tu06918
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu06920	0tu06921	0tu06922	0tu06923	0tu06924	0tu06925
##	CSI001	0	0.000000e+00	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0
##		0tu06927	0tu06928	0tu06929	0tu06930	0tu06931	0tu06932
##	CSI001	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0
##	CSI012	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0
##	CSI022	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0
##	CSI044	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0
##	CSI055	0	2.151417e-05	0.000000e+00	0	4.302833e-05	0
##	CSI065	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0
##	CSI076	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0
##		0tu06933	0tu06934	0tu06935	0tu06936	0tu06937	0tu06938
##	CSI001	0.000000e+00	0.0000000000	0	0	0	0
##	CSI012	0.000000e+00	0.0000000000	0	0	0	0
##	CSI022	0.000000e+00	0.0000000000	0	0	0	0
##	CSI044	0.000000e+00	0.0001380099	0	0	0	0
##	CSI055	2.151417e-05	0.0000000000	0	0	0	0
##	CSI065	0.000000e+00	0.0000000000	0	0	0	0
##	CSI076	0.000000e+00	0.0000000000	0	0	0	0
##		0tu06939	0tu06940	0tu06941	0tu06942	0tu06943	0tu06944
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu06946	0tu06947	0tu06948	0tu06949	0tu06950	0tu06951
##	CSI001	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI012	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI022	0	2.151556e-05	0	0	0.000000e+00	0
##	CSI044	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI055	0	0.000000e+00	0	0	8.605667e-05	0
##	CSI065	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI076	0	0.000000e+00	0	0	2.890675e-05	0
##		0tu06952	0tu06953	0tu06954	0tu06955	0tu06956	0tu06957
##	CSI001	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	5.174912e-05	0	0
##	CSI022	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0.000000e+00	0	0



##	CSI055	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0.000000e+00	0	0
##		0tu06958	0tu06959	0tu06960	0tu06961	0tu06962	0tu06963
##	CSI001	0.000000e+00	0	0	2.345326e-05	0	0.000000e+00
##	CSI012	0.000000e+00	0	0	1.724971e-05	0	0.000000e+00
##	CSI022	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI055	0.000000e+00	0	0	0.000000e+00	0	4.302833e-05
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	8.672024e-05
##		0tu06964	0tu06965	0tu06966	0tu06967	0tu06968	
##	CSI001	0	4.690652e-05	0	0.000000e+00	0.000000e+00	
##	CSI012	0	0.000000e+00	0	3.449941e-05	0.000000e+00	
##	CSI022	0	0.000000e+00	0	0.000000e+00	4.303111e-05	
##	CSI044	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI055	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI065	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI076	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##		0tu06969	0tu06970	0tu06971	0tu06972	0tu06973	0tu06974
##	CSI001	0.0000000000	0	0	0	0	0
##	CSI012	0.0000000000	0	0	0	0	0
##	CSI022	0.0000000000	0	0	0	0	0
##	CSI044	0.0000000000	0	0	0	0	0
##	CSI055	0.0000000000	0	0	0	0	0
##	CSI065	0.0000000000	0	0	0	0	0
##	CSI076	0.0000000000	0	0	0	0	0
##		0tu06976	0tu06977	0tu06978	0tu06979	0tu06980	0tu06981
##	CSI001	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI012	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI022	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI044	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI055	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI065	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI076	0	0	0	0	0.000000e+00	0.000000e+00
##		0tu06982	0tu06983	0tu06984	0tu06985	0tu06986	0tu06987
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu06989	0tu06990	0tu06991	0tu06992	0tu06993	0tu06994
##	CSI001	0	0.000000e+00	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	2.890675e-05	0	0	0	0
##		0tu06996	0tu06997	0tu06998	0tu06999	0tu07000	0tu07001
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07003	0tu07004	0tu07005	0tu07006	0tu07007	0tu07008	0tu07009
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07010	0tu07011	0tu07012	0tu07013	0tu07014	0tu07015	0tu07016
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	1.724971e-05
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu07017	0tu07018	0tu07019	0tu07020	0tu07021	0tu07022	
##	CSI001	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI012	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI022	0	0	0.000000e+00	0	8.606222e-05	0.000000e+00	
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	4.302833e-05	
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI076	0	0	2.890675e-05	0	0.000000e+00	0.000000e+00	
##		0tu07023	0tu07024	0tu07025	0tu07026	0tu07027	0tu07028	0tu07029
##	CSI001	0	4.690652e-05	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu07030	0tu07031	0tu07032	0tu07033	0tu07034	0tu07035	0tu07036
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu07037	0tu07038	0tu07039	0tu07040	0tu07041	0tu07042	
##	CSI001	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI012	0.000000e+00	0	0	0	0	3.449941e-05	
##	CSI022	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI044	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI055	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI076	0.000000e+00	0	0	0	0	0.000000e+00	
##		0tu07043	0tu07044	0tu07045	0tu07046	0tu07047	0tu07048	

##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI076	0.000000e+00	0	0	0	0.000000e+00	0	
##		0tu07049	0tu07050	0tu07051	0tu07052	0tu07053	0tu07054	
##	CSI001	0	0	0	0	0.000000e+00	0	
##	CSI012	0	0	0	0	0.000000e+00	0	
##	CSI022	0	0	0	0	0.000000e+00	0	
##	CSI044	0	0	0	0	0.000000e+00	0	
##	CSI055	0	0	0	0	0.000000e+00	0	
##	CSI065	0	0	0	0	0.000000e+00	0	
##	CSI076	0	0	0	0	0.000000e+00	0	
##		0tu07055	0tu07056	0tu07057	0tu07058	0tu07059	0tu07060	
##	CSI001	2.345326e-05	0	0	0.000000e+00	0.000000e+00	0	
##	CSI012	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##	CSI022	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##	CSI055	0.000000e+00	0	0	4.302833e-05	8.605667e-05	0	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##		0tu07061	0tu07062	0tu07063	0tu07064	0tu07065		
##	CSI001	0.000000e+00	0	0.000000e+00	0.000000e+00	0		
##	CSI012	1.724971e-05	0	0.000000e+00	0.000000e+00	0		
##	CSI022	0.000000e+00	0	0.000000e+00	0.000000e+00	0		
##	CSI044	0.000000e+00	0	0.000000e+00	0.000000e+00	0		
##	CSI055	0.000000e+00	0	0.000000e+00	0.000000e+00	0		
##	CSI065	0.000000e+00	0	0.000000e+00	3.782005e-05	0		
##	CSI076	0.000000e+00	0	0.000000e+00	0.000000e+00	0		
##		0tu07066	0tu07067	0tu07068	0tu07069	0tu07070		
##	CSI001	4.690652e-05	0.000000e+00	0	0	0.0000000000		
##	CSI012	0.000000e+00	1.724971e-05	0	0	0.0000000000		
##	CSI022	2.151556e-05	0.000000e+00	0	0	0.0000000000		
##	CSI044	1.971570e-05	0.000000e+00	0	0	0.0000000000		
##	CSI055	0.000000e+00	0.000000e+00	0	0	0.000129085		
##	CSI065	0.000000e+00	0.000000e+00	0	0	0.0000000000		
##	CSI076	0.000000e+00	0.000000e+00	0	0	0.0000000000		
##		0tu07071	0tu07072	0tu07073	0tu07074	0tu07075	0tu07076	0tu07077
##	CSI001	2.345326e-05	0	0	0	0	0	0
##	CSI012	3.449941e-05	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu07078	0tu07079	0tu07080	0tu07081	0tu07082	0tu07083	0tu07084
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##		0tu07085	0tu07086	0tu07087	0tu07088	0tu07089	0tu07090	0tu07091
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07092	0tu07093	0tu07094	0tu07095	0tu07096	0tu07097	0tu07098
##	CSI001	0	0	0	0	0	2.345326e-05	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu07099	0tu07100	0tu07101	0tu07102	0tu07103	0tu07104	
##	CSI001	0	0	0.000000e+00	0	0	2.345326e-05	
##	CSI012	0	0	1.724971e-05	0	0	0.000000e+00	
##	CSI022	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI044	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI055	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI065	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI076	0	0	0.000000e+00	0	0	0.000000e+00	
##		0tu07105	0tu07106	0tu07107	0tu07108	0tu07109	0tu07110	0tu07111
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07112	0tu07113	0tu07114	0tu07115	0tu07116	0tu07117	
##	CSI001	0	0	0	0	0	0.000000e+00	
##	CSI012	0	0	0	0	0	0.000000e+00	
##	CSI022	0	0	0	0	0	0.000000e+00	
##	CSI044	0	0	0	0	0	0.000000e+00	
##	CSI055	0	0	0	0	0	0.000000e+00	
##	CSI065	0	0	0	0	0	0.000000e+00	
##	CSI076	0	0	0	0	0	0.000000e+00	
##		0tu07118	0tu07119	0tu07120	0tu07121	0tu07122	0tu07123	
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI022	8.606222e-05	0	0	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI076	0.000000e+00	0	0	0	0.000000e+00	0	
##		0tu07124	0tu07125	0tu07126	0tu07127	0tu07128	0tu07129	0tu07130
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0

##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07131	0tu07132	0tu07133	0tu07134	0tu07135	0tu07136	
##	CSI001	0	0.000000e+00	0	0	0	0	
##	CSI012	0	5.174912e-05	0	0	0	0	
##	CSI022	0	0.000000e+00	0	0	0	0	
##	CSI044	0	0.000000e+00	0	0	0	0	
##	CSI055	0	0.000000e+00	0	0	0	0	
##	CSI065	0	0.000000e+00	0	0	0	0	
##	CSI076	0	0.000000e+00	0	0	0	0	
##		0tu07137	0tu07138	0tu07139	0tu07140	0tu07141	0tu07142	0tu07143
##	CSI001	4.690652e-05	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu07144	0tu07145	0tu07146	0tu07147	0tu07148	0tu07149	0tu07150
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07151	0tu07152	0tu07153	0tu07154	0tu07155	0tu07156	0tu07157
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	3.449941e-05	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu07158	0tu07159	0tu07160	0tu07161	0tu07162	0tu07163	0tu07164
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07165	0tu07166	0tu07167	0tu07168	0tu07169	0tu07170	
##	CSI001	2.345326e-05	0	0.0000000000	0	0.0000000000	0	
##	CSI012	0.000000e+00	0	0.0000000000	0	0.0000000000	0	
##	CSI022	0.000000e+00	0	0.0000000000	0	0.0000000000	0	
##	CSI044	0.000000e+00	0	0.0000000000	0	0.0000000000	0	
##	CSI055	2.151417e-05	0	0.0000000000	0	0.0000000000	0	
##	CSI065	0.000000e+00	0	0.0000000000	0	0.0000000000	0	
##	CSI076	0.000000e+00	0	0.0000000000	0	0.0002023472	0	
##		0tu07171	0tu07172	0tu07173	0tu07174	0tu07175	0tu07176	
##	CSI001	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI012	0	0	0.000000e+00	0	1.724971e-05	0.000000e+00	

##	CSI022	0	0	4.303111e-05	0	0.000000e+00	0.000000e+00	
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	1.971570e-05	
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI076	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##		Otu07177	Otu07178	Otu07179	Otu07180	Otu07181	Otu07182	Otu07183
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu07184	Otu07185	Otu07186	Otu07187	Otu07188	Otu07189	Otu07190
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu07191	Otu07192	Otu07193	Otu07194	Otu07195	Otu07196	Otu07197
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		Otu07198	Otu07199	Otu07200	Otu07201	Otu07202	Otu07203	Otu07204
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu07205	Otu07206	Otu07207	Otu07208	Otu07209	Otu07210	
##	CSI001	0	0	0	0	0.0000000000	0.000000e+00	
##	CSI012	0	0	0	0	0.0000000000	0.000000e+00	
##	CSI022	0	0	0	0	0.0000000000	0.000000e+00	
##	CSI044	0	0	0	0	0.0000000000	0.000000e+00	
##	CSI055	0	0	0	0	0.0000000000	0.000000e+00	
##	CSI065	0	0	0	0	0.0000000000	0.000000e+00	
##	CSI076	0	0	0	0	0.000115627	0.000000e+00	
##		Otu07211	Otu07212	Otu07213	Otu07214	Otu07215	Otu07216	Otu07217
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu07218	Otu07219	Otu07220	Otu07221	Otu07222	Otu07223	Otu07224

##	CSI001	0	0	0	0	0 0.000000e+00	0
##	CSI012	0	0	0	0	0 0.000000e+00	0
##	CSI022	0	0	0	0	0 0.000000e+00	0
##	CSI044	0	0	0	0	0 0.000000e+00	0
##	CSI055	0	0	0	0	0 0.000000e+00	0
##	CSI065	0	0	0	0	0 0.000000e+00	0
##	CSI076	0	0	0	0	0 0.000000e+00	0
##	0tu07225	0tu07226	0tu07227	0tu07228	0tu07229	0tu07230	0tu07231
##	CSI001	0	0	0	0	0 0.000000e+00	0
##	CSI012	0	0	0	0	0 0.000000e+00	0
##	CSI022	0	0	0	0	0 0.000000e+00	0
##	CSI044	0	0	0	0	0 0.000000e+00	0
##	CSI055	0	0	0	0	0 0.000000e+00	0
##	CSI065	0	0	0	0	0 3.782005e-05	0
##	CSI076	0	0	0	0	0 0.000000e+00	0
##	0tu07232	0tu07233	0tu07234	0tu07235	0tu07236	0tu07237	
##	CSI001	0 0.000000e+00	0 0.000000e+00	0	0	0	
##	CSI012	0 0.000000e+00	0 1.724971e-05	0	0	0	
##	CSI022	0 0.000000e+00	0 0.000000e+00	0	0	0	
##	CSI044	0 0.000000e+00	0 0.000000e+00	0	0	0	
##	CSI055	0 0.000000e+00	0 0.000000e+00	0	0	0	
##	CSI065	0 0.000000e+00	0 0.000000e+00	0	0	0	
##	CSI076	0 0.000000e+00	0 0.000000e+00	0	0	0	
##	0tu07238	0tu07239	0tu07240	0tu07241	0tu07242	0tu07243	
##	CSI001	0 2.345326e-05	0 0.000000e+00	0 0.000000e+00	0	0	
##	CSI012	0 0.000000e+00	1.724971e-05	0 1.724971e-05	0	0	
##	CSI022	0 2.151556e-05	0 0.000000e+00	0 0.000000e+00	0	0	
##	CSI044	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00	0	0	
##	CSI055	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00	0	0	
##	CSI065	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00	0	0	
##	CSI076	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00	0	0	
##	0tu07244	0tu07245	0tu07246	0tu07247	0tu07248	0tu07249	
##	CSI001	0 0.000000e+00	0 0.00000e+00	0	0	0	
##	CSI012	0 0.000000e+00	0 0.00000e+00	0	0	0	
##	CSI022	0 0.000000e+00	0 0.00000e+00	0	0	0	
##	CSI044	0 0.000000e+00	1.97157e-05	0	0	0	
##	CSI055	0 0.000000e+00	0 0.00000e+00	0	0	0	
##	CSI065	0 0.000000e+00	0 0.00000e+00	0	0	0	
##	CSI076	0 0.000000e+00	0 0.00000e+00	0	0	0	
##	0tu07250	0tu07251	0tu07252	0tu07253	0tu07254	0tu07255	0tu07256
##	CSI001	0	0	0	0	0	0 0.000000e+00
##	CSI012	0	0	0	0	0	0 0.000000e+00
##	CSI022	0	0	0	0	0	0 0.000000e+00
##	CSI044	0	0	0	0	0	0 0.000000e+00
##	CSI055	0	0	0	0	0	0 0.000000e+00
##	CSI065	0	0	0	0	0	0 0.000000e+00
##	CSI076	0	0	0	0	0	0 0.000000e+00
##	0tu07257	0tu07258	0tu07259	0tu07260	0tu07261	0tu07262	0tu07263
##	CSI001	0	0	0	0	0 0.000000e+00	0
##	CSI012	0	0	0	0	0 0.000000e+00	0
##	CSI022	0	0	0	0	0 0.000000e+00	0
##	CSI044	0	0	0	0	0 0.000000e+00	0
##	CSI055	0	0	0	0	0 0.000000e+00	0
##	CSI065	0	0	0	0	0 0.000000e+00	0

##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu07264	0tu07265	0tu07266	0tu07267	0tu07268	0tu07269	0tu07270
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	2.151556e-05	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu07271	0tu07272	0tu07273	0tu07274	0tu07275	0tu07276	
##	CSI001	0.000000e+00	0	0	0.0000000000	0	0	
##	CSI012	0.000000e+00	0	0	0.0000000000	0	0	
##	CSI022	0.000000e+00	0	0	0.0000000000	0	0	
##	CSI044	0.000000e+00	0	0	0.0000000000	0	0	
##	CSI055	4.302833e-05	0	0	0.0001075708	0	0	
##	CSI065	0.000000e+00	0	0	0.0000000000	0	0	
##	CSI076	0.000000e+00	0	0	0.0000000000	0	0	
##		0tu07277	0tu07278	0tu07279	0tu07280	0tu07281		
##	CSI001	0	0	2.345326e-05	0.000000e+00	0.000000e+00		
##	CSI012	0	0	1.724971e-05	0.000000e+00	0.000000e+00		
##	CSI022	0	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI044	0	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI055	0	0	0.000000e+00	0.000000e+00	6.45425e-05		
##	CSI065	0	0	0.000000e+00	3.782005e-05	0.000000e+00		
##	CSI076	0	0	0.000000e+00	0.000000e+00	0.000000e+00		
##		0tu07282	0tu07283	0tu07284	0tu07285	0tu07286	0tu07287	
##	CSI001	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI012	0.000000e+00	0	0	1.724971e-05	0	0	
##	CSI022	4.303111e-05	0	0	0.000000e+00	0	0	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI055	0.000000e+00	0	0	2.151417e-05	0	0	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0	
##		0tu07288	0tu07289	0tu07290	0tu07291	0tu07292	0tu07293	0tu07294
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	1.724971e-05	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu07295	0tu07296	0tu07297	0tu07298	0tu07299	0tu07300	
##	CSI001	0	0.000000e+00	0	0	0	0.0000000000	
##	CSI012	0	1.724971e-05	0	0	0	0.0000000000	
##	CSI022	0	0.000000e+00	0	0	0	0.0001506089	
##	CSI044	0	0.000000e+00	0	0	0	0.0000000000	
##	CSI055	0	0.000000e+00	0	0	0	0.0000000000	
##	CSI065	0	0.000000e+00	0	0	0	0.0000000000	
##	CSI076	0	0.000000e+00	0	0	0	0.0000000000	
##		0tu07301	0tu07302	0tu07303	0tu07304	0tu07305	0tu07306	
##	CSI001	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI012	0	0	1.724971e-05	0.000000e+00	0	0	
##	CSI022	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI044	0	0	0.000000e+00	7.88628e-05	0	0	



##	CSI055	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI065	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI076	0	0	0.000000e+00	0.000000e+00	0	0	
##		0tu07307	0tu07308	0tu07309	0tu07310	0tu07311	0tu07312	0tu07313
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07314	0tu07315	0tu07316	0tu07317	0tu07318	0tu07319	0tu07320
##	CSI001	0	0	2.345326e-05	0	0	0	0
##	CSI012	0	0	1.724971e-05	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		0tu07321	0tu07322	0tu07323	0tu07324	0tu07325	0tu07326	
##	CSI001	0	0	0.000000e+00	0	0	0	
##	CSI012	0	0	0.000000e+00	0	0	0	
##	CSI022	0	0	0.000000e+00	0	0	0	
##	CSI044	0	0	5.91471e-05	0	0	0	
##	CSI055	0	0	0.000000e+00	0	0	0	
##	CSI065	0	0	0.000000e+00	0	0	0	
##	CSI076	0	0	0.000000e+00	0	0	0	
##		0tu07327	0tu07328	0tu07329	0tu07330	0tu07331	0tu07332	
##	CSI001	0.000000e+00	0	0.0001172663	0	0	0	
##	CSI012	0.000000e+00	0	0.0000000000	0	0	0	
##	CSI022	0.000000e+00	0	0.0000000000	0	0	0	
##	CSI044	0.000000e+00	0	0.0000000000	0	0	0	
##	CSI055	0.000000e+00	0	0.0000000000	0	0	0	
##	CSI065	0.000000e+00	0	0.0000000000	0	0	0	
##	CSI076	0.000000e+00	0	0.0000000000	0	0	0	
##		0tu07333	0tu07334	0tu07335	0tu07336	0tu07337	0tu07338	0tu07339
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu07340	0tu07341	0tu07342	0tu07343	0tu07344	0tu07345	
##	CSI001	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI012	0	1.724971e-05	0.000000e+00	0	0	0.000000e+00	
##	CSI022	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI055	0	0.000000e+00	2.151417e-05	0	0	4.302833e-05	
##	CSI065	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI076	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##		0tu07346	0tu07347	0tu07348	0tu07349	0tu07350	0tu07351	0tu07352
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07353	0tu07354	0tu07355	0tu07356	0tu07357	0tu07358	
##	CSI001	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI012	0	0	0	0.000000e+00	0.000000e+00	3.449941e-05	
##	CSI022	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI055	0	0	0	4.302833e-05	0.000000e+00	0.000000e+00	
##	CSI065	0	0	0	0.000000e+00	1.134602e-04	0.000000e+00	
##	CSI076	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##		0tu07359	0tu07360	0tu07361	0tu07362	0tu07363	0tu07364	0tu07365
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	5.781349e-05	0	0	0
##		0tu07366	0tu07367	0tu07368	0tu07369	0tu07370	0tu07371	
##	CSI001	0	0	0	0	0.0000000000	0.000000e+00	
##	CSI012	0	0	0	0	0.0000000000	0.000000e+00	
##	CSI022	0	0	0	0	0.0001075778	0.000000e+00	
##	CSI044	0	0	0	0	0.0000000000	0.000000e+00	
##	CSI055	0	0	0	0	0.0000000000	0.000000e+00	
##	CSI065	0	0	0	0	0.0000000000	0.000000e+00	
##	CSI076	0	0	0	0	0.0000000000	0.000000e+00	
##		0tu07372	0tu07373	0tu07374	0tu07375	0tu07376	0tu07377	0tu07378
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu07379	0tu07380	0tu07381	0tu07382	0tu07383	0tu07384	0tu07385
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07386	0tu07387	0tu07388	0tu07389	0tu07390	0tu07391	0tu07392
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu07393	0tu07394	0tu07395	0tu07396	0tu07397	0tu07398	0tu07399

##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07400	0tu07401	0tu07402	0tu07403	0tu07404	0tu07405	
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0	0	0	2.151417e-05	0	
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI076	0.000000e+00	0	0	0	0.000000e+00	0	
##		0tu07406	0tu07407	0tu07408	0tu07409	0tu07410	0tu07411	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI022	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0.000000e+00	0	0.000000e+00	0	5.781349e-05	0	
##		0tu07412	0tu07413	0tu07414	0tu07415	0tu07416	0tu07417	0tu07418
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	2.151556e-05
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu07419	0tu07420	0tu07421	0tu07422	0tu07423	0tu07424	
##	CSI001	0	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI012	0	0.000000e+00	5.174912e-05	0	0	0	0
##	CSI022	0	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu07425	0tu07426	0tu07427	0tu07428	0tu07429	0tu07430	0tu07431
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07432	0tu07433	0tu07434	0tu07435	0tu07436	0tu07437	0tu07438
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##		0tu07439	0tu07440	0tu07441	0tu07442	0tu07443	0tu07444	0tu07445
##	CSI001	0	0	7.035977e-05	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		0tu07446	0tu07447	0tu07448	0tu07449	0tu07450	0tu07451	
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI076	2.890675e-05	0	0	0	0.000000e+00	0	
##		0tu07452	0tu07453	0tu07454	0tu07455	0tu07456	0tu07457	0tu07458
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu07459	0tu07460	0tu07461	0tu07462	0tu07463	0tu07464	
##	CSI001	2.345326e-05	0	0	0	0	0	
##	CSI012	0.000000e+00	0	0	0	0	0	
##	CSI022	0.000000e+00	0	0	0	0	0	
##	CSI044	0.000000e+00	0	0	0	0	0	
##	CSI055	0.000000e+00	0	0	0	0	0	
##	CSI065	0.000000e+00	0	0	0	0	0	
##	CSI076	0.000000e+00	0	0	0	0	0	
##		0tu07465	0tu07466	0tu07467	0tu07468	0tu07469		
##	CSI001	0.000000e+00	0	0.000000e+00	0.000000e+00	4.690652e-05		
##	CSI012	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI022	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI044	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI055	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI065	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI076	2.890675e-05	0	0.000000e+00	0.000000e+00	0.000000e+00		
##		0tu07470	0tu07471	0tu07472	0tu07473	0tu07474	0tu07475	0tu07476
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07477	0tu07478	0tu07479	0tu07480	0tu07481	0tu07482	
##	CSI001	2.345326e-05	0.000000e+00	0	0	0	0.000000e+00	
##	CSI012	3.449941e-05	0.000000e+00	0	0	0	0.000000e+00	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	3.943140e-05	

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## CSI055 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
## CSI065 0.000000e+00 0.000000e+00      0      0      0 3.782005e-05
## CSI076 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
##      0tu07483 0tu07484 0tu07485 0tu07486 0tu07487 0tu07488 0tu07489
## CSI001 4.690652e-05      0      0      0      0      0      0
## CSI012 0.000000e+00      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 0.000000e+00      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0      0
##      0tu07490 0tu07491 0tu07492 0tu07493      0tu07494 0tu07495 0tu07496
## CSI001      0      0      0      0 0.000000e+00      0      0
## CSI012      0      0      0      0 1.724971e-05      0      0
## CSI022      0      0      0      0 0.000000e+00      0      0
## CSI044      0      0      0      0 0.000000e+00      0      0
## CSI055      0      0      0      0 0.000000e+00      0      0
## CSI065      0      0      0      0 0.000000e+00      0      0
## CSI076      0      0      0      0 0.000000e+00      0      0
##      0tu07497      0tu07498 0tu07499 0tu07500 0tu07501 0tu07502 0tu07503
## CSI001      0 4.690652e-05      0      0      0      0      0
## CSI012      0 0.000000e+00      0      0      0      0      0
## CSI022      0 0.000000e+00      0      0      0      0      0
## CSI044      0 0.000000e+00      0      0      0      0      0
## CSI055      0 0.000000e+00      0      0      0      0      0
## CSI065      0 0.000000e+00      0      0      0      0      0
## CSI076      0 0.000000e+00      0      0      0      0      0
##      0tu07504 0tu07505      0tu07506      0tu07507 0tu07508 0tu07509
## CSI001      0      0 0.000000e+00 0.000000e+00      0      0
## CSI012      0      0 0.000000e+00 0.000000e+00      0      0
## CSI022      0      0 0.000000e+00 0.000000e+00      0      0
## CSI044      0      0 0.000000e+00 0.000000e+00      0      0
## CSI055      0      0 0.000000e+00 0.000000e+00      0      0
## CSI065      0      0 0.000000e+00 0.000000e+00      0      0
## CSI076      0      0 0.000000e+00 2.890675e-05      0      0
##      0tu07510 0tu07511 0tu07512 0tu07513 0tu07514      0tu07515 0tu07516
## CSI001      0      0      0      0      0 2.345326e-05      0
## CSI012      0      0      0      0      0 0.000000e+00      0
## CSI022      0      0      0      0      0 0.000000e+00      0
## CSI044      0      0      0      0      0 0.000000e+00      0
## CSI055      0      0      0      0      0 0.000000e+00      0
## CSI065      0      0      0      0      0 0.000000e+00      0
## CSI076      0      0      0      0      0 0.000000e+00      0
##      0tu07517 0tu07518 0tu07519 0tu07520 0tu07521      0tu07522 0tu07523
## CSI001      0      0      0      0      0 0.000000e+00      0
## CSI012      0      0      0      0      0 0.000000e+00      0
## CSI022      0      0      0      0      0 0.000000e+00      0
## CSI044      0      0      0      0      0 0.000000e+00      0
## CSI055      0      0      0      0      0 0.000000e+00      0
## CSI065      0      0      0      0      0 0.000000e+00      0
## CSI076      0      0      0      0      0 0.000000e+00      0
##      0tu07524 0tu07525      0tu07526 0tu07527 0tu07528 0tu07529 0tu07530
## CSI001      0      0 0.0000000000      0      0      0      0
## CSI012      0      0 0.0000000000      0      0      0      0

```

##	CSI022	0	0	0.0001290933	0	0	0	0
##	CSI044	0	0	0.0000000000	0	0	0	0
##	CSI055	0	0	0.0000000000	0	0	0	0
##	CSI065	0	0	0.0000000000	0	0	0	0
##	CSI076	0	0	0.0000000000	0	0	0	0
##		0tu07531	0tu07532	0tu07533	0tu07534	0tu07535	0tu07536	0tu07537
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	2.151417e-05	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu07538	0tu07539	0tu07540	0tu07541	0tu07542	0tu07543	
##	CSI001	0	2.345326e-05	0	0.000000e+00	0	0.000000e+00	
##	CSI012	0	0.000000e+00	0	0.000000e+00	0	3.449941e-05	
##	CSI022	0	4.303111e-05	0	0.000000e+00	0	0.000000e+00	
##	CSI044	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0.000000e+00	0	2.151417e-05	0	0.000000e+00	
##	CSI065	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00	
##	CSI076	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00	
##		0tu07544	0tu07545	0tu07546	0tu07547	0tu07548	0tu07549	
##	CSI001	0.000000e+00	0	0	0	0	0	
##	CSI012	0.000000e+00	0	0	0	0	0	
##	CSI022	0.000000e+00	0	0	0	0	0	
##	CSI044	0.000000e+00	0	0	0	0	0	
##	CSI055	0.000000e+00	0	0	0	0	0	
##	CSI065	0.000000e+00	0	0	0	0	0	
##	CSI076	0.000000e+00	0	0	0	0	0	
##		0tu07550	0tu07551	0tu07552	0tu07553	0tu07554	0tu07555	
##	CSI001	2.345326e-05	0	0	0.000000e+00	0	0	
##	CSI012	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI022	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI055	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0	
##		0tu07556	0tu07557	0tu07558	0tu07559	0tu07560	0tu07561	0tu07562
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	2.151417e-05	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		0tu07563	0tu07564	0tu07565	0tu07566	0tu07567	0tu07568	0tu07569
##	CSI001	2.345326e-05	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu07570	0tu07571	0tu07572	0tu07573	0tu07574	0tu07575	0tu07576

##	CSI001	0	0	0	0 0.000000e+00	0	0
##	CSI012	0	0	0	0 0.000000e+00	0	0
##	CSI022	0	0	0	0 0.000000e+00	0	0
##	CSI044	0	0	0	0 0.000000e+00	0	0
##	CSI055	0	0	0	0 0.000000e+00	0	0
##	CSI065	0	0	0	0 0.000000e+00	0	0
##	CSI076	0	0	0	0 0.000000e+00	0	0
##		0tu07577	0tu07578	0tu07579	0tu07580	0tu07581	0tu07582
##	CSI001	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI012	1.724971e-05	0	0	0.000000e+00	0	0
##	CSI022	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI055	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0
##		0tu07583	0tu07584	0tu07585	0tu07586	0tu07587	0tu07588
##	CSI001	2.345326e-05	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		0tu07590	0tu07591	0tu07592	0tu07593	0tu07594	0tu07595
##	CSI001	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	2.151556e-05	0	0
##	CSI044	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0.000000e+00	0	0
##		0tu07597	0tu07598	0tu07599	0tu07600	0tu07601	0tu07602
##	CSI001	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	2.890675e-05	0	0	0
##		0tu07604	0tu07605	0tu07606	0tu07607	0tu07608	0tu07609
##	CSI001	0	0	0	0 2.345326e-05	0	
##	CSI012	0	0	0	0 0.000000e+00	0	
##	CSI022	0	0	0	0 0.000000e+00	0	
##	CSI044	0	0	0	0 0.000000e+00	0	
##	CSI055	0	0	0	0 0.000000e+00	0	
##	CSI065	0	0	0	0 0.000000e+00	0	
##	CSI076	0	0	0	0 0.000000e+00	0	
##		0tu07610	0tu07611	0tu07612	0tu07613	0tu07614	0tu07615
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	1.724971e-05	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0

##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu07617	0tu07618	0tu07619	0tu07620	0tu07621	0tu07622	0tu07623
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	7.56401e-05	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu07624	0tu07625	0tu07626	0tu07627	0tu07628	0tu07629	
##	CSI001	0	2.345326e-05	0	0.000000e+00	0	0	
##	CSI012	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI022	0	0.000000e+00	0	2.151556e-05	0	0	
##	CSI044	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI055	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI065	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI076	0	0.000000e+00	0	0.000000e+00	0	0	
##		0tu07630	0tu07631	0tu07632	0tu07633	0tu07634	0tu07635	0tu07636
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu07637	0tu07638	0tu07639	0tu07640	0tu07641	0tu07642	
##	CSI001	0	0	0	0	2.345326e-05	0	
##	CSI012	0	0	0	0	0.000000e+00	0	
##	CSI022	0	0	0	0	2.151556e-05	0	
##	CSI044	0	0	0	0	0.000000e+00	0	
##	CSI055	0	0	0	0	0.000000e+00	0	
##	CSI065	0	0	0	0	0.000000e+00	0	
##	CSI076	0	0	0	0	0.000000e+00	0	
##		0tu07643	0tu07644	0tu07645	0tu07646	0tu07647	0tu07648	0tu07649
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	2.151556e-05	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu07650	0tu07651	0tu07652	0tu07653	0tu07654	0tu07655	
##	CSI001	0	2.345326e-05	0	0	0.000000e+00	0	
##	CSI012	0	0.000000e+00	0	0	3.449941e-05	0	
##	CSI022	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI044	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI055	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI065	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI076	0	0.000000e+00	0	0	0.000000e+00	0	
##		0tu07656	0tu07657	0tu07658	0tu07659	0tu07660	0tu07661	0tu07662
##	CSI001	0	0	0	0	0	0	2.345326e-05
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00



##	CSI055	0	0	0	0	0	0 0.000000e+00
##	CSI065	0	0	0	0	0	0 0.000000e+00
##	CSI076	0	0	0	0	0	0 0.000000e+00
##		0tu07663	0tu07664	0tu07665	0tu07666	0tu07667	0tu07668
##	CSI001	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI012	0.000000e+00	0.000000e+00	0	1.724971e-05	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI055	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI065	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##		0tu07669	0tu07670	0tu07671	0tu07672	0tu07673	0tu07674
##	CSI001	0	0	0	0.000000e+00	0.00000e+00	2.345326e-05
##	CSI012	0	0	0	0.000000e+00	0.00000e+00	0.000000e+00
##	CSI022	0	0	0	4.303111e-05	0.00000e+00	0.000000e+00
##	CSI044	0	0	0	0.000000e+00	0.00000e+00	0.000000e+00
##	CSI055	0	0	0	0.000000e+00	0.00000e+00	0.000000e+00
##	CSI065	0	0	0	0.000000e+00	7.56401e-05	0.000000e+00
##	CSI076	0	0	0	0.000000e+00	0.00000e+00	0.000000e+00
##		0tu07675	0tu07676	0tu07677	0tu07678	0tu07679	0tu07680
##	CSI001	0	0	0	0 0.000000e+00	0	
##	CSI012	0	0	0	0 0.000000e+00	0	
##	CSI022	0	0	0	0 0.000000e+00	0	
##	CSI044	0	0	0	0 0.000000e+00	0	
##	CSI055	0	0	0	0 6.454250e-05	0	
##	CSI065	0	0	0	0 0.000000e+00	0	
##	CSI076	0	0	0	0 2.890675e-05	0	
##		0tu07681	0tu07682	0tu07683	0tu07684	0tu07685	0tu07686
##	CSI001	0.000000e+00	0.00000e+00	0	0.000000e+00	0	0
##	CSI012	0.000000e+00	0.00000e+00	0	1.724971e-05	0	0
##	CSI022	0.000000e+00	0.00000e+00	0	0.000000e+00	0	0
##	CSI044	0.000000e+00	0.00000e+00	0	0.000000e+00	0	0
##	CSI055	0.000000e+00	6.45425e-05	0	0.000000e+00	0	0
##	CSI065	0.000000e+00	0.00000e+00	0	0.000000e+00	0	0
##	CSI076	0.000000e+00	0.00000e+00	0	0.000000e+00	0	0
##		0tu07687	0tu07688	0tu07689	0tu07690	0tu07691	0tu07692
##	CSI001	0	0	0	0 0.000000e+00	0	0
##	CSI012	0	0	0	0 0.000000e+00	0	0
##	CSI022	0	0	0	0 4.303111e-05	0	0
##	CSI044	0	0	0	0 0.000000e+00	0	0
##	CSI055	0	0	0	0 0.000000e+00	0	0
##	CSI065	0	0	0	0 0.000000e+00	0	0
##	CSI076	0	0	0	0 0.000000e+00	0	0
##		0tu07694	0tu07695	0tu07696	0tu07697	0tu07698	0tu07699
##	CSI001	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	2.151556e-05	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0
##		0tu07701	0tu07702	0tu07703	0tu07704	0tu07705	0tu07706
##	CSI001	0	0	0.0000000000	0	0.000000e+00	0
##	CSI012	0	0	0.0000000000	0	0.000000e+00	0

##	CSI022	0	0	0.0000000000	0	0.000000e+00	0	
##	CSI044	0	0	0.0000000000	0	0.000000e+00	0	
##	CSI055	0	0	0.0000000000	0	4.302833e-05	0	
##	CSI065	0	0	0.0000000000	0	0.000000e+00	0	
##	CSI076	0	0	0.0000000000	0	2.890675e-05	0	
##		0tu07707	0tu07708	0tu07709	0tu07710	0tu07711	0tu07712	0tu07713
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu07714	0tu07715	0tu07716	0tu07717	0tu07718	0tu07719	0tu07720
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07721	0tu07722	0tu07723	0tu07724	0tu07725	0tu07726	0tu07727
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07728	0tu07729	0tu07730	0tu07731	0tu07732	0tu07733	0tu07734
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	5.174912e-05
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu07735	0tu07736	0tu07737	0tu07738	0tu07739	0tu07740	0tu07741
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	4.302833e-05	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		0tu07742	0tu07743	0tu07744	0tu07745	0tu07746	0tu07747	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI012	1.724971e-05	0	1.724971e-05	0	0	0	
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0	
##		0tu07748	0tu07749	0tu07750	0tu07751	0tu07752	0tu07753	

##	CSI001	0.000000e+00	0.000000e+00	0	2.345326e-05	0	0
##	CSI012	6.899883e-05	0.000000e+00	0	0.000000e+00	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI055	0.000000e+00	0.000000e+00	0	6.454250e-05	0	0
##	CSI065	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##		0tu07754	0tu07755	0tu07756	0tu07757	0tu07758	0tu07759
##	CSI001	0	4.690652e-05	0	0	0	0.000000e+00
##	CSI012	0	0.000000e+00	0	0	0	3.449941e-05
##	CSI022	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI044	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI055	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI065	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI076	0	0.000000e+00	0	0	0	0.000000e+00
##		0tu07760	0tu07761	0tu07762	0tu07763	0tu07764	0tu07765
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu07767	0tu07768	0tu07769	0tu07770	0tu07771	0tu07772
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI012	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI055	2.151417e-05	2.151417e-05	0	0	0	0.000000e+00
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##		0tu07773	0tu07774	0tu07775	0tu07776	0tu07777	0tu07778
##	CSI001	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0.000000e+00	0
##		0tu07779	0tu07780	0tu07781	0tu07782	0tu07783	0tu07784
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		0tu07785	0tu07786	0tu07787	0tu07788	0tu07789	0tu07790
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	6.899883e-05	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0

##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu07792	0tu07793	0tu07794	0tu07795	0tu07796	0tu07797	0tu07798
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	2.151556e-05	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu07799	0tu07800	0tu07801	0tu07802	0tu07803	0tu07804	0tu07805
##	CSI001	0	0	0	2.345326e-05	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		0tu07806	0tu07807	0tu07808	0tu07809	0tu07810	0tu07811	0tu07812
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu07813	0tu07814	0tu07815	0tu07816	0tu07817	0tu07818	0tu07819
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07820	0tu07821	0tu07822	0tu07823	0tu07824	0tu07825	0tu07826
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07827	0tu07828	0tu07829	0tu07830	0tu07831	0tu07832	0tu07833
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	2.151417e-05	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu07834	0tu07835	0tu07836	0tu07837	0tu07838	0tu07839	
##	CSI001	0.000000e+00	0	0.00000e+00	0	0	0	
##	CSI012	1.724971e-05	0	0.00000e+00	0	0	0	
##	CSI022	0.000000e+00	0	0.00000e+00	0	0	0	
##	CSI044	0.000000e+00	0	0.00000e+00	0	0	0	

##	CSI055	0.000000e+00	0	6.45425e-05	0	0	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0	
##		0tu07840	0tu07841	0tu07842	0tu07843	0tu07844	0tu07845	0tu07846
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07847	0tu07848	0tu07849	0tu07850	0tu07851	0tu07852	
##	CSI001	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI012	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI022	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI044	0	0	5.91471e-05	0	0.000000e+00	0.000000e+00	
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI076	0	0	0.000000e+00	0	0.000000e+00	2.890675e-05	
##		0tu07853	0tu07854	0tu07855	0tu07856	0tu07857	0tu07858	
##	CSI001	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI012	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI022	0	0	0	0	0.000000e+00	2.151556e-05	
##	CSI044	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI055	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI065	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI076	0	0	0	0	0.000000e+00	0.000000e+00	
##		0tu07859	0tu07860	0tu07861	0tu07862	0tu07863	0tu07864	
##	CSI001	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI012	0	0	0	1.724971e-05	0	0.000000e+00	
##	CSI022	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI076	0	0	0	0.000000e+00	0	2.890675e-05	
##		0tu07865	0tu07866	0tu07867	0tu07868	0tu07869	0tu07870	0tu07871
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	6.899883e-05	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		0tu07872	0tu07873	0tu07874	0tu07875	0tu07876	0tu07877	0tu07878
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07879	0tu07880	0tu07881	0tu07882	0tu07883	0tu07884	0tu07885
##	CSI001	0	0	0	2.345326e-05	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0

##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		0tu07886	0tu07887	0tu07888	0tu07889	0tu07890	0tu07891	0tu07892
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	5.781349e-05	0	0	0
##		0tu07893	0tu07894	0tu07895	0tu07896	0tu07897	0tu07898	0tu07899
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07900	0tu07901	0tu07902	0tu07903	0tu07904	0tu07905	0tu07906
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07907	0tu07908	0tu07909	0tu07910	0tu07911	0tu07912	0tu07913
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	2.151417e-05	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu07914	0tu07915	0tu07916	0tu07917	0tu07918	0tu07919	
##	CSI001	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI012	0	1.724971e-05	3.449941e-05	0	0.000000e+00	0	
##	CSI022	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI065	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##		0tu07920	0tu07921	0tu07922	0tu07923	0tu07924	0tu07925	
##	CSI001	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI012	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI022	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI044	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI055	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI065	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI076	0	0	0	0	0.000000e+00	2.890675e-05	
##		0tu07926	0tu07927	0tu07928	0tu07929	0tu07930	0tu07931	0tu07932

##	CSI001	0	0	0	0	0	2.345326e-05	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu07933	0tu07934	0tu07935	0tu07936	0tu07937	0tu07938	
##	CSI001	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI012	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI022	0	0	6.454667e-05	0.000000e+00	0	0	
##	CSI044	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI055	0	0	0.000000e+00	2.151417e-05	0	0	
##	CSI065	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI076	0	0	0.000000e+00	0.000000e+00	0	0	
##		0tu07939	0tu07940	0tu07941	0tu07942	0tu07943	0tu07944	0tu07945
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	1.724971e-05
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu07946	0tu07947	0tu07948	0tu07949	0tu07950	0tu07951	0tu07952
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu07953	0tu07954	0tu07955	0tu07956	0tu07957	0tu07958	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI012	1.724971e-05	0	0.000000e+00	0	1.724971e-05	0	
##	CSI022	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##		0tu07959	0tu07960	0tu07961	0tu07962	0tu07963	0tu07964	
##	CSI001	0	0	0.000000e+00	0	0	0	
##	CSI012	0	0	0.000000e+00	0	0	0	
##	CSI022	0	0	2.151556e-05	0	0	0	
##	CSI044	0	0	0.000000e+00	0	0	0	
##	CSI055	0	0	0.000000e+00	0	0	0	
##	CSI065	0	0	0.000000e+00	0	0	0	
##	CSI076	0	0	0.000000e+00	0	0	0	
##		0tu07965	0tu07966	0tu07967	0tu07968	0tu07969	0tu07970	0tu07971
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0

```

## CSI076 0.000000e+00      0      0      0      0      0      0
##      0tu07972 0tu07973      0tu07974      0tu07975 0tu07976 0tu07977
## CSI001 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI012 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI022 0.000000e+00      0 0.000000e+00 8.606222e-05      0      0
## CSI044 0.000000e+00      0 0.000000e+00 1.971570e-05      0      0
## CSI055 4.302833e-05      0 2.151417e-05 0.000000e+00      0      0
## CSI065 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI076 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
##      0tu07978 0tu07979 0tu07980      0tu07981 0tu07982 0tu07983 0tu07984
## CSI001      0      0      0 2.345326e-05      0      0      0
## CSI012      0      0      0 0.000000e+00      0      0      0
## CSI022      0      0      0 0.000000e+00      0      0      0
## CSI044      0      0      0 0.000000e+00      0      0      0
## CSI055      0      0      0 0.000000e+00      0      0      0
## CSI065      0      0      0 0.000000e+00      0      0      0
## CSI076      0      0      0 0.000000e+00      0      0      0
##      0tu07985 0tu07986 0tu07987 0tu07988 0tu07989 0tu07990 0tu07991
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu07992      0tu07993 0tu07994 0tu07995 0tu07996 0tu07997 0tu07998
## CSI001      0 0.000000e+00      0      0      0      0      0
## CSI012      0 0.000000e+00      0      0      0      0      0
## CSI022      0 0.000000e+00      0      0      0      0      0
## CSI044      0 0.000000e+00      0      0      0      0      0
## CSI055      0 4.302833e-05      0      0      0      0      0
## CSI065      0 0.000000e+00      0      0      0      0      0
## CSI076      0 0.000000e+00      0      0      0      0      0
##      0tu07999 0tu08000 0tu08001 0tu08002 0tu08003 0tu08004      0tu08005
## CSI001      0      0      0      0      0      0 0.000000e+00
## CSI012      0      0      0      0      0      0 0.000000e+00
## CSI022      0      0      0      0      0      0 0.000000e+00
## CSI044      0      0      0      0      0      0 0.000000e+00
## CSI055      0      0      0      0      0      0 4.302833e-05
## CSI065      0      0      0      0      0      0 0.000000e+00
## CSI076      0      0      0      0      0      0 0.000000e+00
##      0tu08006 0tu08007 0tu08008 0tu08009 0tu08010      0tu08011
## CSI001 0.000000e+00      0      0      0      0 0.0000000000
## CSI012 0.000000e+00      0      0      0      0 0.0000000000
## CSI022 0.000000e+00      0      0      0      0 0.0001075778
## CSI044 1.97157e-05      0      0      0      0 0.0000000000
## CSI055 0.000000e+00      0      0      0      0 0.0000000000
## CSI065 0.000000e+00      0      0      0      0 0.0000000000
## CSI076 0.000000e+00      0      0      0      0 0.0000000000
##      0tu08012 0tu08013 0tu08014 0tu08015 0tu08016 0tu08017 0tu08018
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0

```



##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08019	0tu08020	0tu08021	0tu08022	0tu08023	0tu08024	
##	CSI001	0	0	0	0	0	0.000000e+00	
##	CSI012	0	0	0	0	0	1.724971e-05	
##	CSI022	0	0	0	0	0	0.000000e+00	
##	CSI044	0	0	0	0	0	0.000000e+00	
##	CSI055	0	0	0	0	0	0.000000e+00	
##	CSI065	0	0	0	0	0	0.000000e+00	
##	CSI076	0	0	0	0	0	0.000000e+00	
##		0tu08025	0tu08026	0tu08027	0tu08028	0tu08029	0tu08030	
##	CSI001	0.000000e+00	0	0	0.000000e+00	0.0000000000	0	
##	CSI012	0.000000e+00	0	0	0.000000e+00	0.0000000000	0	
##	CSI022	0.000000e+00	0	0	0.000000e+00	0.0000000000	0	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0.0000000000	0	
##	CSI055	0.000000e+00	0	0	0.000000e+00	0.0000000000	0	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0.0001134602	0	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0.0000000000	0	
##		0tu08031	0tu08032	0tu08033	0tu08034	0tu08035	0tu08036	0tu08037
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08038	0tu08039	0tu08040	0tu08041	0tu08042	0tu08043	0tu08044
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08045	0tu08046	0tu08047	0tu08048	0tu08049	0tu08050	0tu08051
##	CSI001	0	0	0	0.0000000000	0	0	0
##	CSI012	0	0	0	0.0000000000	0	0	0
##	CSI022	0	0	0	0.0001075778	0	0	0
##	CSI044	0	0	0	0.0000000000	0	0	0
##	CSI055	0	0	0	0.0000000000	0	0	0
##	CSI065	0	0	0	0.0000000000	0	0	0
##	CSI076	0	0	0	0.0000000000	0	0	0
##		0tu08052	0tu08053	0tu08054	0tu08055	0tu08056	0tu08057	0tu08058
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu08059	0tu08060	0tu08061	0tu08062	0tu08063	0tu08064	
##	CSI001	0	0.000000e+00	4.690652e-05	0	0	0	
##	CSI012	0	1.724971e-05	0.000000e+00	0	0	0	

##	CSI022	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI055	0	0.000000e+00	2.151417e-05	0	0	0
##	CSI065	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI076	0	0.000000e+00	0.000000e+00	0	0	0
##	0tu08065	0tu08066	0tu08067	0tu08068	0tu08069	0tu08070	0tu08071
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##	0tu08072	0tu08073	0tu08074	0tu08075	0tu08076	0tu08077	0tu08078
##	CSI001	0	0.000000e+00	0	0	0	0
##	CSI012	0	8.624853e-05	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0
##	0tu08079	0tu08080	0tu08081	0tu08082	0tu08083	0tu08084	
##	CSI001	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI012	0	0.000000e+00	0	0	0	1.724971e-05
##	CSI022	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI044	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI055	0	2.151417e-05	0	0	0	0.000000e+00
##	CSI065	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI076	0	0.000000e+00	0	0	0	0.000000e+00
##	0tu08085	0tu08086	0tu08087	0tu08088	0tu08089	0tu08090	0tu08091
##	CSI001	0	0.000000e+00	0	0	0	0
##	CSI012	0	5.174912e-05	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	2.890675e-05	0	0	0	0
##	0tu08092	0tu08093	0tu08094	0tu08095	0tu08096	0tu08097	0tu08098
##	CSI001	0	0	0	0	0	4.690652e-05
##	CSI012	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0.000000e+00
##	0tu08099	0tu08100	0tu08101	0tu08102	0tu08103	0tu08104	
##	CSI001	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI012	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI022	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI076	0	0	8.672024e-05	0	0.000000e+00	2.890675e-05
##	0tu08105	0tu08106	0tu08107	0tu08108	0tu08109	0tu08110	

##	CSI001	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI012	0	0.000000e+00	0	0	1.724971e-05	0	
##	CSI022	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI044	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI055	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI065	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI076	0	0.000000e+00	0	0	0.000000e+00	0	
##		0tu08111	0tu08112	0tu08113	0tu08114	0tu08115	0tu08116	0tu08117
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08118	0tu08119	0tu08120	0tu08121	0tu08122	0tu08123	
##	CSI001	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI012	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI022	0	0	0	0	2.151556e-05	0.000000e+00	
##	CSI044	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI055	0	0	0	0	0.000000e+00	2.151417e-05	
##	CSI065	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI076	0	0	0	0	0.000000e+00	0.000000e+00	
##		0tu08124	0tu08125	0tu08126	0tu08127	0tu08128	0tu08129	0tu08130
##	CSI001	0	0	0	0	0	0	4.690652e-05
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu08131	0tu08132	0tu08133	0tu08134	0tu08135	0tu08136	
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI012	0.000000e+00	0	0	0	1.724971e-05	0.000000e+00	
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	2.151556e-05	
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI076	8.672024e-05	0	0	0	0.000000e+00	0.000000e+00	
##		0tu08137	0tu08138	0tu08139	0tu08140	0tu08141	0tu08142	
##	CSI001	0.000000e+00	0.000000e+00	2.345326e-05	0	0	0	
##	CSI012	1.724971e-05	0.000000e+00	0.000000e+00	0	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	CSI055	0.000000e+00	0.000000e+00	2.151417e-05	0	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	CSI076	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##		0tu08143	0tu08144	0tu08145	0tu08146	0tu08147	0tu08148	
##	CSI001	2.345326e-05	0.000000e+00	0	0	0	0	
##	CSI012	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0	

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## CSI076 0.000000e+00 0.000000e+00      0      0      0      0
##      0tu08149 0tu08150 0tu08151 0tu08152 0tu08153 0tu08154 0tu08155
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu08156 0tu08157 0tu08158 0tu08159 0tu08160 0tu08161 0tu08162
## CSI001 0.0000000000      0      0      0      0      0      0
## CSI012 0.0000000000      0      0      0      0      0      0
## CSI022 0.0000000000      0      0      0      0      0      0
## CSI044 0.0000000000      0      0      0      0      0      0
## CSI055 0.0000000000      0      0      0      0      0      0
## CSI065 0.0000000000      0      0      0      0      0      0
## CSI076 0.0000000000      0      0      0      0      0      0
##      0tu08163      0tu08164      0tu08165 0tu08166 0tu08167 0tu08168
## CSI001      0 0.0000000000 0.000000e+00      0      0      0
## CSI012      0 0.0000000000 1.724971e-05      0      0      0
## CSI022      0 0.0000000000 0.000000e+00      0      0      0
## CSI044      0 0.0000000000 0.000000e+00      0      0      0
## CSI055      0 0.0000000000 2.151417e-05      0      0      0
## CSI065      0 0.0000000000 0.000000e+00      0      0      0
## CSI076      0 0.0000000000 0.000000e+00      0      0      0
##      0tu08169 0tu08170      0tu08171 0tu08172 0tu08173 0tu08174 0tu08175
## CSI001      0      0 2.345326e-05      0      0      0      0
## CSI012      0      0 0.000000e+00      0      0      0      0
## CSI022      0      0 0.000000e+00      0      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0      0
## CSI055      0      0 0.000000e+00      0      0      0      0
## CSI065      0      0 0.000000e+00      0      0      0      0
## CSI076      0      0 0.000000e+00      0      0      0      0
##      0tu08176 0tu08177      0tu08178 0tu08179 0tu08180 0tu08181
## CSI001      0      0 0.000000e+00      0      0      0
## CSI012      0      0 0.000000e+00      0      0      0
## CSI022      0      0 0.000000e+00      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0
## CSI055      0      0 0.000000e+00      0      0      0
## CSI065      0      0 0.000000e+00      0      0      0
## CSI076      0      0 0.000000e+00      0      0      0
##      0tu08182 0tu08183 0tu08184 0tu08185 0tu08186 0tu08187 0tu08188
## CSI001 0.000000e+00      0      0      0      0      0      0
## CSI012 0.000000e+00      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 0.000000e+00      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0      0
##      0tu08189 0tu08190      0tu08191      0tu08192 0tu08193 0tu08194
## CSI001 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI012 0.000000e+00      0 0.000000e+00 3.449941e-05      0      0
## CSI022 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI044 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0

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##	CSI055	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI065	0.000000e+00	0	3.782005e-05	0.000000e+00	0	0
##	CSI076	2.890675e-05	0	0.000000e+00	0.000000e+00	0	0
##		0tu08195	0tu08196	0tu08197	0tu08198	0tu08199	0tu08200
##	CSI001	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI012	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI022	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI044	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI055	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI065	0	0.000000e+00	0	7.56401e-05	0	0
##	CSI076	0	0.000000e+00	0	0.000000e+00	0	0
##		0tu08201	0tu08202	0tu08203	0tu08204	0tu08205	0tu08206
##	CSI001	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	8.605667e-05	0
##	CSI065	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0.000000e+00	0
##		0tu08208	0tu08209	0tu08210	0tu08211	0tu08212	0tu08213
##	CSI001	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0.000000e+00	0
##		0tu08215	0tu08216	0tu08217	0tu08218	0tu08219	0tu08220
##	CSI001	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI012	0	0	1.724971e-05	0	0	0.000000e+00
##	CSI022	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI044	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI055	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI065	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI076	0	0	0.000000e+00	0	0	0.000000e+00
##		0tu08221	0tu08222	0tu08223	0tu08224	0tu08225	0tu08226
##	CSI001	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0
##		0tu08228	0tu08229	0tu08230	0tu08231	0tu08232	0tu08233
##	CSI001	7.035977e-05	0	0	0	0	0.000000e+00
##	CSI012	0.000000e+00	0	0	0	0	1.724971e-05
##	CSI022	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI044	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI055	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI076	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu08234	0tu08235	0tu08236	0tu08237	0tu08238	0tu08239
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08241	0tu08242	0tu08243	0tu08244	0tu08245	0tu08246	
##	CSI001	0.000000e+00	9.381303e-05	0	0	0	0	
##	CSI012	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI055	2.151417e-05	0.000000e+00	0	0	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0	
##		0tu08247	0tu08248	0tu08249	0tu08250	0tu08251	0tu08252	0tu08253
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	3.449941e-05	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu08254	0tu08255	0tu08256	0tu08257	0tu08258	0tu08259	0tu08260
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08261	0tu08262	0tu08263	0tu08264	0tu08265	0tu08266	
##	CSI001	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI012	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI022	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI055	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI076	0	0	0	0.000000e+00	5.781349e-05	0	
##		0tu08267	0tu08268	0tu08269	0tu08270	0tu08271	0tu08272	
##	CSI001	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI012	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI022	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI055	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI065	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI076	0	0.000000e+00	5.781349e-05	0	0	0	
##		0tu08273	0tu08274	0tu08275	0tu08276	0tu08277	0tu08278	0tu08279
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08280	0tu08281	0tu08282	0tu08283	0tu08284	0tu08285	0tu08286

##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	1.724971e-05	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu08287	0tu08288	0tu08289	0tu08290	0tu08291	0tu08292	
##	CSI001	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI012	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI022	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0	0	2.151417e-05	0	2.151417e-05	0	
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0	0	2.890675e-05	0	0.000000e+00	0	
##		0tu08293	0tu08294	0tu08295	0tu08296	0tu08297	0tu08298	
##	CSI001	0.0000000000	0	0	0	0	7.035977e-05	
##	CSI012	0.0000000000	0	0	0	0	1.724971e-05	
##	CSI022	0.0000000000	0	0	0	0	0.000000e+00	
##	CSI044	0.0000000000	0	0	0	0	0.000000e+00	
##	CSI055	0.0000000000	0	0	0	0	0.000000e+00	
##	CSI065	0.0000000000	0	0	0	0	0.000000e+00	
##	CSI076	0.0000000000	0	0	0	0	0.000000e+00	
##		0tu08299	0tu08300	0tu08301	0tu08302	0tu08303	0tu08304	0tu08305
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	1.724971e-05	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	2.151417e-05	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu08306	0tu08307	0tu08308	0tu08309	0tu08310	0tu08311	0tu08312
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08313	0tu08314	0tu08315	0tu08316	0tu08317	0tu08318	0tu08319
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08320	0tu08321	0tu08322	0tu08323	0tu08324	0tu08325	0tu08326
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	3.782005e-05	0	0	0	0	0

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## CSI076      0 0.000000e+00      0      0      0      0      0
##      0tu08327 0tu08328 0tu08329 0tu08330 0tu08331 0tu08332 0tu08333
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu08334 0tu08335      0tu08336 0tu08337 0tu08338 0tu08339 0tu08340
## CSI001      0      0 0.000000e+00      0      0      0      0
## CSI012      0      0 0.000000e+00      0      0      0      0
## CSI022      0      0 0.000000e+00      0      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0      0
## CSI055      0      0 0.000000e+00      0      0      0      0
## CSI065      0      0 3.782005e-05      0      0      0      0
## CSI076      0      0 0.000000e+00      0      0      0      0
##      0tu08341 0tu08342 0tu08343 0tu08344 0tu08345 0tu08346 0tu08347
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu08348 0tu08349 0tu08350 0tu08351 0tu08352 0tu08353 0tu08354
## CSI001 4.690652e-05      0      0      0      0      0      0
## CSI012 0.000000e+00      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 0.000000e+00      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0      0
##      0tu08355 0tu08356      0tu08357 0tu08358      0tu08359 0tu08360
## CSI001      0      0 0.000000e+00      0 0.000000e+00      0
## CSI012      0      0 0.000000e+00      0 0.000000e+00      0
## CSI022      0      0 0.000000e+00      0 0.000000e+00      0
## CSI044      0      0 0.000000e+00      0 0.000000e+00      0
## CSI055      0      0 2.151417e-05      0 2.151417e-05      0
## CSI065      0      0 0.000000e+00      0 0.000000e+00      0
## CSI076      0      0 0.000000e+00      0 0.000000e+00      0
##      0tu08361 0tu08362 0tu08363 0tu08364 0tu08365 0tu08366      0tu08367
## CSI001      0      0      0      0      0      0 0.000000e+00
## CSI012      0      0      0      0      0      0 5.174912e-05
## CSI022      0      0      0      0      0      0 0.000000e+00
## CSI044      0      0      0      0      0      0 0.000000e+00
## CSI055      0      0      0      0      0      0 0.000000e+00
## CSI065      0      0      0      0      0      0 0.000000e+00
## CSI076      0      0      0      0      0      0 0.000000e+00
##      0tu08368 0tu08369 0tu08370 0tu08371 0tu08372      0tu08373 0tu08374
## CSI001      0      0      0      0      0 4.690652e-05      0
## CSI012      0      0      0      0      0 0.000000e+00      0
## CSI022      0      0      0      0      0 0.000000e+00      0
## CSI044      0      0      0      0      0 0.000000e+00      0

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##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu08375	0tu08376	0tu08377	0tu08378	0tu08379	0tu08380	
##	CSI001	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI012	0.000000e+00	0	0	0	0	1.724971e-05	
##	CSI022	4.303111e-05	0	0	0	0	0.000000e+00	
##	CSI044	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI055	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI076	0.000000e+00	0	0	0	0	0.000000e+00	
##		0tu08381	0tu08382	0tu08383	0tu08384	0tu08385	0tu08386	0tu08387
##	CSI001	0	0	2.345326e-05	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	2.151556e-05	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		0tu08388	0tu08389	0tu08390	0tu08391	0tu08392	0tu08393	
##	CSI001	0.000000e+00	4.690652e-05	0	0	0	0	
##	CSI012	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0	
##		0tu08394	0tu08395	0tu08396	0tu08397	0tu08398	0tu08399	0tu08400
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08401	0tu08402	0tu08403	0tu08404	0tu08405	0tu08406	0tu08407
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	5.174912e-05	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu08408	0tu08409	0tu08410	0tu08411	0tu08412	0tu08413	0tu08414
##	CSI001	0	0	0	2.345326e-05	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		0tu08415	0tu08416	0tu08417	0tu08418	0tu08419	0tu08420	0tu08421
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	
##	CSI044	0	0	0	0	0	0	
##	CSI055	0	0	0	0	0	0	
##	CSI065	0	0	0	0	0	0	
##	CSI076	0	0	0	0	0	0	
##		0tu08422	0tu08423	0tu08424	0tu08425	0tu08426	0tu08427	
##	CSI001	0.000000e+00	0	2.345326e-05	0	0	0.000000e+00	
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00	
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	1.971570e-05	
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	2.151417e-05	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	3.782005e-05	
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00	
##		0tu08428	0tu08429	0tu08430	0tu08431	0tu08432	0tu08433	
##	CSI001	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI012	0	0.000000e+00	0	0	1.724971e-05	0.000000e+00	
##	CSI022	0	4.303111e-05	0	0	0.000000e+00	0.000000e+00	
##	CSI044	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI055	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI065	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI076	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##		0tu08434	0tu08435	0tu08436	0tu08437	0tu08438	0tu08439	
##	CSI001	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI012	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI022	0.000000e+00	2.151556e-05	0	2.151556e-05	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI055	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI076	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##		0tu08440	0tu08441	0tu08442	0tu08443	0tu08444	0tu08445	0tu08446
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu08447	0tu08448	0tu08449	0tu08450	0tu08451	0tu08452	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI012	0.000000e+00	0	3.449941e-05	0	0	0	
##	CSI022	0.000000e+00	0	2.151556e-05	0	0	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0	
##		0tu08453	0tu08454	0tu08455	0tu08456	0tu08457	0tu08458	0tu08459
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	3.449941e-05	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		0tu08460	0tu08461	0tu08462	0tu08463	0tu08464	0tu08465	0tu08466

##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu08467	0tu08468	0tu08469	0tu08470	0tu08471	0tu08472
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu08474	0tu08475	0tu08476	0tu08477	0tu08478	0tu08479
##	CSI001	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI012	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI022	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI044	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI055	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI065	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI076	0	0	0.000000e+00	0.000000e+00	0	0
##		0tu08480	0tu08481	0tu08482	0tu08483	0tu08484	0tu08485
##	CSI001	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0.000000e+00
##		0tu08487	0tu08488	0tu08489	0tu08490	0tu08491	0tu08492
##	CSI001	0	0.000000e+00	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0
##		0tu08494	0tu08495	0tu08496	0tu08497	0tu08498	0tu08499
##	CSI001	0	0	0.0000000000	0	0	0
##	CSI012	0	0	0.0000000000	0	0	0
##	CSI022	0	0	0.0000000000	0	0	0
##	CSI044	0	0	0.0000000000	0	0	0
##	CSI055	0	0	0.0000000000	0	0	0
##	CSI065	0	0	0.0000000000	0	0	0
##	CSI076	0	0	0.0001445337	0	0	0
##		0tu08501	0tu08502	0tu08503	0tu08504	0tu08505	0tu08506
##	CSI001	0	0.000000e+00	0.0000000000	0	0	2.345326e-05
##	CSI012	0	0.000000e+00	0.0000000000	0	0	0.000000e+00
##	CSI022	0	0.000000e+00	0.0000000000	0	0	0.000000e+00
##	CSI044	0	0.000000e+00	0.0000000000	0	0	0.000000e+00
##	CSI055	0	0.000000e+00	0.0000000000	0	0	0.000000e+00
##	CSI065	0	0.000000e+00	0.0000000000	0	0	0.000000e+00
##	CSI076	0	3.782005e-05	0.0001134602	0	0	0.000000e+00

## CSI076	0	2.890675e-05	0.0000000000	0	0	0.000000e+00	
##	0tu08507	0tu08508	0tu08509	0tu08510	0tu08511	0tu08512	0tu08513
## CSI001	0	0	0	0	0	0	0
## CSI012	0	0	0	0	0	0	0
## CSI022	0	0	0	0	0	0	0
## CSI044	0	0	0	0	0	0	0
## CSI055	0	0	0	0	0	0	0
## CSI065	0	0	0	0	0	0	0
## CSI076	0	0	0	0	0	0	0
##	0tu08514	0tu08515	0tu08516	0tu08517	0tu08518	0tu08519	0tu08520
## CSI001	0	0	0	0	0	0	0
## CSI012	0	0	0	0	0	0	0
## CSI022	0	0	0	0	0	0	0
## CSI044	0	0	0	0	0	0	0
## CSI055	0	0	0	0	0	0	0
## CSI065	0	0	0	0	0	0	0
## CSI076	0	0	0	0	0	0	0
##	0tu08521	0tu08522	0tu08523	0tu08524	0tu08525	0tu08526	0tu08527
## CSI001	0	0	0	0.000000e+00	0	0	0
## CSI012	0	0	0	1.724971e-05	0	0	0
## CSI022	0	0	0	0.000000e+00	0	0	0
## CSI044	0	0	0	0.000000e+00	0	0	0
## CSI055	0	0	0	0.000000e+00	0	0	0
## CSI065	0	0	0	0.000000e+00	0	0	0
## CSI076	0	0	0	0.000000e+00	0	0	0
##	0tu08528	0tu08529	0tu08530	0tu08531	0tu08532	0tu08533	0tu08534
## CSI001	0	0.00000e+00	0	0	0	0	0
## CSI012	0	0.00000e+00	0	0	0	0	0
## CSI022	0	0.00000e+00	0	0	0	0	0
## CSI044	0	1.97157e-05	0	0	0	0	0
## CSI055	0	0.00000e+00	0	0	0	0	0
## CSI065	0	0.00000e+00	0	0	0	0	0
## CSI076	0	0.00000e+00	0	0	0	0	0
##	0tu08535	0tu08536	0tu08537	0tu08538	0tu08539	0tu08540	0tu08541
## CSI001	0	0	0	0	0	0	0
## CSI012	0	0	0	0	0	0	0
## CSI022	0	0	0	0	0	0	0
## CSI044	0	0	0	0	0	0	0
## CSI055	0	0	0	0	0	0	0
## CSI065	0	0	0	0	0	0	0
## CSI076	0	0	0	0	0	0	0
##	0tu08542	0tu08543	0tu08544	0tu08545	0tu08546	0tu08547	0tu08548
## CSI001	0	0	0	0	0	0	0
## CSI012	0	0	0	0	0	0	0
## CSI022	0	0	0	0	0	0	0
## CSI044	0	0	0	0	0	0	0
## CSI055	0	0	0	0	0	0	0
## CSI065	0	0	0	0	0	0	0
## CSI076	0	0	0	0	0	0	0
##	0tu08549	0tu08550	0tu08551	0tu08552	0tu08553	0tu08554	
## CSI001	0	0	9.381303e-05	0.000000e+00	7.035977e-05	0	
## CSI012	0	0	0.000000e+00	0.000000e+00	0.000000e+00	0	
## CSI022	0	0	0.000000e+00	0.000000e+00	0.000000e+00	0	
## CSI044	0	0	0.000000e+00	0.000000e+00	0.000000e+00	0	

##	CSI055	0	0	0.000000e+00	0.000000e+00	0.000000e+00	0
##	CSI065	0	0	0.000000e+00	0.000000e+00	0.000000e+00	0
##	CSI076	0	0	0.000000e+00	0.000000e+00	0.000000e+00	0
##	0tu08555	0tu08556	0tu08557	0tu08558	0tu08559	0tu08560	0tu08561
##	CSI001	0	0.000000e+00	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0
##	0tu08562	0tu08563	0tu08564	0tu08565	0tu08566	0tu08567	0tu08568
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##	0tu08569	0tu08570	0tu08571	0tu08572	0tu08573	0tu08574	0tu08575
##	CSI001	0	0	0	0	0	0.00000e+00
##	CSI012	0	0	0	0	0	0.00000e+00
##	CSI022	0	0	0	0	0	0.00000e+00
##	CSI044	0	0	0	0	0	0.00000e+00
##	CSI055	0	0	0	0	0	6.45425e-05
##	CSI065	0	0	0	0	0	0.00000e+00
##	CSI076	0	0	0	0	0	0.00000e+00
##	0tu08576	0tu08577	0tu08578	0tu08579	0tu08580	0tu08581	0tu08582
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##	0tu08583	0tu08584	0tu08585	0tu08586	0tu08587	0tu08588	0tu08589
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##	0tu08590	0tu08591	0tu08592	0tu08593	0tu08594	0tu08595	0tu08596
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##	0tu08597	0tu08598	0tu08599	0tu08600	0tu08601	0tu08602	0tu08603
##	CSI001	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	5.174912e-05	0

##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##	0tu08604	0tu08605	0tu08606	0tu08607	0tu08608	0tu08609		
##	CSI001	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI012	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI022	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI044	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI055	0	2.151417e-05	0	0	0	0.000000e+00	
##	CSI065	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI076	0	0.000000e+00	0	0	0	0.000000e+00	
##	0tu08610	0tu08611	0tu08612	0tu08613	0tu08614	0tu08615	0tu08616	
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##	0tu08617	0tu08618	0tu08619	0tu08620	0tu08621	0tu08622	0tu08623	
##	CSI001	0	0	0	0	0	2.345326e-05	
##	CSI012	0	0	0	0	0	0.000000e+00	
##	CSI022	0	0	0	0	0	0.000000e+00	
##	CSI044	0	0	0	0	0	0.000000e+00	
##	CSI055	0	0	0	0	0	0.000000e+00	
##	CSI065	0	0	0	0	0	0.000000e+00	
##	CSI076	0	0	0	0	0	0.000000e+00	
##	0tu08624	0tu08625	0tu08626	0tu08627	0tu08628	0tu08629	0tu08630	
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##	0tu08631	0tu08632	0tu08633	0tu08634	0tu08635	0tu08636	0tu08637	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	0tu08638	0tu08639	0tu08640	0tu08641	0tu08642	0tu08643	0tu08644	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	0tu08645	0tu08646	0tu08647	0tu08648	0tu08649	0tu08650	0tu08651	

##	CSI001	0	0 0.000000e+00	0	0	0	0
##	CSI012	0	0 0.000000e+00	0	0	0	0
##	CSI022	0	0 0.000000e+00	0	0	0	0
##	CSI044	0	0 0.000000e+00	0	0	0	0
##	CSI055	0	0 0.000000e+00	0	0	0	0
##	CSI065	0	0 0.000000e+00	0	0	0	0
##	CSI076	0	0 0.000000e+00	0	0	0	0
##		0tu08652	0tu08653	0tu08654	0tu08655	0tu08656	
##	CSI001	0.000000e+00	0.00000e+00	0 0.000000e+00	0		
##	CSI012	0.000000e+00	0.00000e+00	0 0.000000e+00	0		
##	CSI022	0.000000e+00	0.00000e+00	0 0.000000e+00	0		
##	CSI044	0.000000e+00	7.88628e-05	0 0.000000e+00	0		
##	CSI055	0.000000e+00	0.00000e+00	0 0.000000e+00	0		
##	CSI065	0.000000e+00	0.00000e+00	0 0.000000e+00	0		
##	CSI076	0.000000e+00	0.00000e+00	0 0.000000e+00	0		
##		0tu08657	0tu08658	0tu08659	0tu08660	0tu08661	0tu08662
##	CSI001	0.000000e+00	0	0	0 0.000000e+00	0.000000e+00	
##	CSI012	0.000000e+00	0	0	0 0.000000e+00	0.000000e+00	
##	CSI022	0.000000e+00	0	0	0 0.000000e+00	0.000000e+00	
##	CSI044	0.000000e+00	0	0	0 0.000000e+00	0.000000e+00	
##	CSI055	0.000000e+00	0	0	0 0.000000e+00	0.000000e+00	
##	CSI065	0.000000e+00	0	0	0 0.000000e+00	0.000000e+00	
##	CSI076	0.000000e+00	0	0	0 0.000000e+00	0.000000e+00	
##		0tu08663	0tu08664	0tu08665	0tu08666	0tu08667	0tu08668
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	4.302833e-05	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	5.781349e-05	0	0	0	0	0
##		0tu08670	0tu08671	0tu08672	0tu08673	0tu08674	0tu08675
##	CSI001	0	0 0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI012	0	0 0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI022	0	0 0.000000e+00	0	4.303111e-05	0.000000e+00	
##	CSI044	0	0 0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI055	0	0 2.151417e-05	0	0.000000e+00	0.000000e+00	
##	CSI065	0	0 0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI076	0	0 0.000000e+00	0	0.000000e+00	2.890675e-05	
##		0tu08676	0tu08677	0tu08678	0tu08679	0tu08680	0tu08681
##	CSI001	0	0	0 2.345326e-05	0.000000e+00	0	
##	CSI012	0	0	0 0.000000e+00	0.000000e+00	0	
##	CSI022	0	0	0 0.000000e+00	0.000000e+00	0	
##	CSI044	0	0	0 0.000000e+00	0.000000e+00	0	
##	CSI055	0	0	0 0.000000e+00	0.000000e+00	0	
##	CSI065	0	0	0 0.000000e+00	0.000000e+00	0	
##	CSI076	0	0	0 0.000000e+00	0.000000e+00	0	
##		0tu08682	0tu08683	0tu08684	0tu08685	0tu08686	0tu08687
##	CSI001	0	0 0.00000e+00	0	0 0.000000e+00		
##	CSI012	0	0 0.00000e+00	0	0 0.000000e+00		
##	CSI022	0	0 0.00000e+00	0	0 0.000000e+00		
##	CSI044	0	0 7.88628e-05	0	0 0.000000e+00		
##	CSI055	0	0 0.00000e+00	0	0 0.000000e+00		
##	CSI065	0	0 0.00000e+00	0	0 0.000000e+00		

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## CSI076      0      0 0.00000e+00      0      0 0.00000e+00
##      0tu08688 0tu08689      0tu08690      0tu08691      0tu08692
## CSI001      0      0 0.00000e+00 4.690652e-05 2.345326e-05
## CSI012      0      0 0.00000e+00 0.00000e+00 0.00000e+00
## CSI022      0      0 0.00000e+00 0.00000e+00 0.00000e+00
## CSI044      0      0 0.00000e+00 0.00000e+00 0.00000e+00
## CSI055      0      0 0.00000e+00 0.00000e+00 0.00000e+00
## CSI065      0      0 0.00000e+00 0.00000e+00 0.00000e+00
## CSI076      0      0 0.00000e+00 0.00000e+00 0.00000e+00
##      0tu08693 0tu08694      0tu08695 0tu08696 0tu08697 0tu08698
## CSI001 0.00000e+00      0 0.00000e+00      0      0      0
## CSI012 0.00000e+00      0 0.00000e+00      0      0      0
## CSI022 0.00000e+00      0 0.00000e+00      0      0      0
## CSI044 0.00000e+00      0 0.00000e+00      0      0      0
## CSI055 0.00000e+00      0 0.00000e+00      0      0      0
## CSI065 0.00000e+00      0 0.00000e+00      0      0      0
## CSI076 0.00000e+00      0 0.00000e+00      0      0      0
##      0tu08699 0tu08700      0tu08701 0tu08702 0tu08703      0tu08704
## CSI001      0 0.00000e+00 0.00000e+00      0      0 0.00000e+00
## CSI012      0 0.00000e+00 6.899883e-05      0      0 3.449941e-05
## CSI022      0 2.151556e-05 0.00000e+00      0      0 0.00000e+00
## CSI044      0 0.00000e+00 0.00000e+00      0      0 0.00000e+00
## CSI055      0 0.00000e+00 0.00000e+00      0      0 0.00000e+00
## CSI065      0 0.00000e+00 0.00000e+00      0      0 0.00000e+00
## CSI076      0 0.00000e+00 0.00000e+00      0      0 0.00000e+00
##      0tu08705 0tu08706 0tu08707 0tu08708 0tu08709 0tu08710 0tu08711
## CSI001 0.00000e+00      0      0      0      0      0      0
## CSI012 0.00000e+00      0      0      0      0      0      0
## CSI022 4.303111e-05      0      0      0      0      0      0
## CSI044 0.00000e+00      0      0      0      0      0      0
## CSI055 0.00000e+00      0      0      0      0      0      0
## CSI065 0.00000e+00      0      0      0      0      0      0
## CSI076 0.00000e+00      0      0      0      0      0      0
##      0tu08712 0tu08713 0tu08714      0tu08715 0tu08716 0tu08717 0tu08718
## CSI001      0      0      0 0.00000e+00      0      0      0
## CSI012      0      0      0 0.00000e+00      0      0      0
## CSI022      0      0      0 0.00000e+00      0      0      0
## CSI044      0      0      0 0.00000e+00      0      0      0
## CSI055      0      0      0 2.151417e-05      0      0      0
## CSI065      0      0      0 0.00000e+00      0      0      0
## CSI076      0      0      0 0.00000e+00      0      0      0
##      0tu08719 0tu08720 0tu08721 0tu08722 0tu08723 0tu08724 0tu08725
## CSI001 0.00000e+00      0      0      0      0      0      0
## CSI012 0.00000e+00      0      0      0      0      0      0
## CSI022 0.00000e+00      0      0      0      0      0      0
## CSI044 0.00000e+00      0      0      0      0      0      0
## CSI055 0.00000e+00      0      0      0      0      0      0
## CSI065 0.00000e+00      0      0      0      0      0      0
## CSI076 0.00000e+00      0      0      0      0      0      0
##      0tu08726 0tu08727      0tu08728      0tu08729 0tu08730 0tu08731
## CSI001      0 2.345326e-05 0.00000e+00 0.00000e+00      0      0
## CSI012      0 0.00000e+00 0.00000e+00 0.00000e+00      0      0
## CSI022      0 0.00000e+00 0.00000e+00 2.151556e-05      0      0
## CSI044      0 0.00000e+00 0.00000e+00 0.00000e+00      0      0

```



##	CSI055	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI065	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI076	0	2.890675e-05	5.781349e-05	0.000000e+00	0	0
##		0tu08732	0tu08733	0tu08734	0tu08735	0tu08736	0tu08737 0tu08738
##	CSI001	0	0	0	0	0	0.000000e+00 0
##	CSI012	0	0	0	0	0	0.000000e+00 0
##	CSI022	0	0	0	0	0	0.000000e+00 0
##	CSI044	0	0	0	0	0	0.000000e+00 0
##	CSI055	0	0	0	0	0	0.000000e+00 0
##	CSI065	0	0	0	0	0	0.000000e+00 0
##	CSI076	0	0	0	0	0	0.000000e+00 0
##		0tu08739	0tu08740	0tu08741	0tu08742	0tu08743	0tu08744 0tu08745
##	CSI001	0	0	0	0	0	0 0
##	CSI012	0	0	0	0	0	0 0
##	CSI022	0	0	0	0	0	0 0
##	CSI044	0	0	0	0	0	0 0
##	CSI055	0	0	0	0	0	0 0
##	CSI065	0	0	0	0	0	0 0
##	CSI076	0	0	0	0	0	0 0
##		0tu08746	0tu08747	0tu08748	0tu08749	0tu08750	0tu08751
##	CSI001	0	0	0	0	0	2.345326e-05
##	CSI012	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	2.151556e-05
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0.000000e+00
##		0tu08752	0tu08753	0tu08754	0tu08755	0tu08756	0tu08757
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI022	2.151556e-05	0	0.000000e+00	0	0	0
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI055	0.000000e+00	0	2.151417e-05	0	0	0
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0
##		0tu08758	0tu08759	0tu08760	0tu08761	0tu08762	0tu08763
##	CSI001	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI012	0	0	0.000000e+00	1.724971e-05	0	0
##	CSI022	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI044	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI055	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI065	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI076	0	0	0.000000e+00	0.000000e+00	0	0
##		0tu08764	0tu08765	0tu08766	0tu08767	0tu08768	0tu08769
##	CSI001	0	0.000000e+00	0	2.345326e-05	0	0
##	CSI012	0	1.724971e-05	0	0.000000e+00	0	0
##	CSI022	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI044	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI055	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI065	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI076	0	0.000000e+00	0	0.000000e+00	0	0
##		0tu08770	0tu08771	0tu08772	0tu08773	0tu08774	0tu08775 0tu08776
##	CSI001	0	0	0.000000e+00	0	0	0 0
##	CSI012	0	0	0.000000e+00	0	0	0 0

##	CSI022	0	0	2.151556e-05	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		0tu08777	0tu08778	0tu08779	0tu08780	0tu08781	0tu08782	0tu08783
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	4.302833e-05	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu08784	0tu08785	0tu08786	0tu08787	0tu08788	0tu08789	0tu08790
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	1.97157e-05	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu08791	0tu08792	0tu08793	0tu08794	0tu08795	0tu08796	0tu08797
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	3.449941e-05
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu08798	0tu08799	0tu08800	0tu08801	0tu08802	0tu08803	0tu08804
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08805	0tu08806	0tu08807	0tu08808	0tu08809	0tu08810	
##	CSI001	2.345326e-05	0	0	0	0.000000e+00	0	0
##	CSI012	0.000000e+00	0	0	0	0.000000e+00	0	0
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0	0
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0	0
##	CSI055	0.000000e+00	0	0	0	6.45425e-05	0	0
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0	0
##	CSI076	0.000000e+00	0	0	0	0.000000e+00	0	0
##		0tu08811	0tu08812	0tu08813	0tu08814	0tu08815	0tu08816	
##	CSI001	0	0	0	0	0	4.690652e-05	
##	CSI012	0	0	0	0	0	0.000000e+00	
##	CSI022	0	0	0	0	0	0.000000e+00	
##	CSI044	0	0	0	0	0	0.000000e+00	
##	CSI055	0	0	0	0	0	0.000000e+00	
##	CSI065	0	0	0	0	0	0.000000e+00	
##	CSI076	0	0	0	0	0	0.000000e+00	
##		0tu08817	0tu08818	0tu08819	0tu08820	0tu08821	0tu08822	

##	CSI001	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##	CSI012	0.000000e+00	0	0	3.449941e-05	0.000000e+00	0	
##	CSI022	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##	CSI055	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##		0tu08823	0tu08824	0tu08825	0tu08826	0tu08827	0tu08828	0tu08829
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		0tu08830	0tu08831	0tu08832	0tu08833	0tu08834	0tu08835	0tu08836
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu08837	0tu08838	0tu08839	0tu08840	0tu08841	0tu08842	0tu08843
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08844	0tu08845	0tu08846	0tu08847	0tu08848	0tu08849	0tu08850
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08851	0tu08852	0tu08853	0tu08854	0tu08855	0tu08856	0tu08857
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08858	0tu08859	0tu08860	0tu08861	0tu08862	0tu08863	0tu08864
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##		0tu08865	0tu08866	0tu08867	0tu08868	0tu08869	0tu08870	
##	CSI001	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI012	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI022	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0	0	0.000000e+00	0	0.000000e+00	0	
##		0tu08871	0tu08872	0tu08873	0tu08874	0tu08875	0tu08876	0tu08877
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		0tu08878	0tu08879	0tu08880	0tu08881	0tu08882	0tu08883	0tu08884
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08885	0tu08886	0tu08887	0tu08888	0tu08889	0tu08890	0tu08891
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu08892	0tu08893	0tu08894	0tu08895	0tu08896	0tu08897	
##	CSI001	0	0	4.690652e-05	0	0	0	
##	CSI012	0	0	1.724971e-05	0	0	0	
##	CSI022	0	0	0.000000e+00	0	0	0	
##	CSI044	0	0	0.000000e+00	0	0	0	
##	CSI055	0	0	0.000000e+00	0	0	0	
##	CSI065	0	0	0.000000e+00	0	0	0	
##	CSI076	0	0	0.000000e+00	0	0	0	
##		0tu08898	0tu08899	0tu08900	0tu08901	0tu08902	0tu08903	
##	CSI001	0.000000e+00	0	0	0	0	0.000000000	
##	CSI012	1.724971e-05	0	0	0	0	0.000000000	
##	CSI022	0.000000e+00	0	0	0	0	0.000000000	
##	CSI044	0.000000e+00	0	0	0	0	0.000000000	
##	CSI055	0.000000e+00	0	0	0	0	0.000000000	
##	CSI065	0.000000e+00	0	0	0	0	0.000000000	
##	CSI076	0.000000e+00	0	0	0	0	0.000115627	
##		0tu08904	0tu08905	0tu08906	0tu08907	0tu08908	0tu08909	
##	CSI001	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI012	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI022	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI044	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00	

##	CSI055	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI065	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00	
##	CSI076	0	2.890675e-05	0	0	0.000000e+00	0.000000e+00	
##		0tu08910	0tu08911	0tu08912	0tu08913	0tu08914	0tu08915	0tu08916
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08917	0tu08918	0tu08919	0tu08920	0tu08921	0tu08922	0tu08923
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	2.151556e-05
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu08924	0tu08925	0tu08926	0tu08927	0tu08928	0tu08929	0tu08930
##	CSI001	0	0	0	0	0	0	0.0000000000
##	CSI012	0	0	0	0	0	0	0.0000000000
##	CSI022	0	0	0	0	0	0	0.0000000000
##	CSI044	0	0	0	0	0	0	0.0000000000
##	CSI055	0	0	0	0	0	0	0.0000000000
##	CSI065	0	0	0	0	0	0	0.0000000000
##	CSI076	0	0	0	0	0	0	0.0000000000
##		0tu08931	0tu08932	0tu08933	0tu08934	0tu08935	0tu08936	0tu08937
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08938	0tu08939	0tu08940	0tu08941	0tu08942	0tu08943	0tu08944
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08945	0tu08946	0tu08947	0tu08948	0tu08949	0tu08950	0tu08951
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08952	0tu08953	0tu08954	0tu08955	0tu08956	0tu08957	0tu08958
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08959	0tu08960	0tu08961	0tu08962	0tu08963	0tu08964	0tu08965
##	CSI001	0	0	0	0	0	0	2.345326e-05
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu08966	0tu08967	0tu08968	0tu08969	0tu08970	0tu08971	0tu08972
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu08973	0tu08974	0tu08975	0tu08976	0tu08977	0tu08978	0tu08979
##	CSI001	0	0	0	0	2.345326e-05	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu08980	0tu08981	0tu08982	0tu08983	0tu08984	0tu08985	
##	CSI001	0.000000e+00	2.345326e-05	0.000000e+00	0	0	0	0
##	CSI012	1.724971e-05	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI022	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI055	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI076	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu08986	0tu08987	0tu08988	0tu08989	0tu08990	0tu08991	
##	CSI001	2.345326e-05	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu08992	0tu08993	0tu08994	0tu08995	0tu08996	0tu08997	
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu08998	0tu08999	0tu09000	0tu09001	0tu09002	0tu09003	0tu09004

##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu09005	0tu09006	0tu09007	0tu09008	0tu09009	0tu09010	0tu09011
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	5.91471e-05	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		0tu09012	0tu09013	0tu09014	0tu09015	0tu09016		0tu09017
##	CSI001	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI012	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI022	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI055	0	2.151417e-05	0.000000e+00	0	0	0.000000e+00	
##	CSI065	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI076	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##		0tu09018	0tu09019	0tu09020	0tu09021	0tu09022		0tu09023
##	CSI001	0.000000e+00	0	0.000000e+00	0	0		0
##	CSI012	0.000000e+00	0	0.000000e+00	0	0		0
##	CSI022	0.000000e+00	0	0.000000e+00	0	0		0
##	CSI044	0.000000e+00	0	0.000000e+00	0	0		0
##	CSI055	0.000000e+00	0	2.151417e-05	0	0		0
##	CSI065	0.000000e+00	0	0.000000e+00	0	0		0
##	CSI076	0.000000e+00	0	0.000000e+00	0	0		0
##		0tu09024	0tu09025	0tu09026	0tu09027	0tu09028	0tu09029	0tu09030
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	1.724971e-05
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu09031	0tu09032	0tu09033	0tu09034	0tu09035	0tu09036	
##	CSI001	0	0	0	0.000000e+00	0	0	
##	CSI012	0	0	0	0.000000e+00	0	0	
##	CSI022	0	0	0	0.000000e+00	0	0	
##	CSI044	0	0	0	0.000000e+00	0	0	
##	CSI055	0	0	0	0.000000e+00	0	0	
##	CSI065	0	0	0	0.000000e+00	0	0	
##	CSI076	0	0	0	0.000000e+00	0	0	
##		0tu09037	0tu09038	0tu09039	0tu09040	0tu09041	0tu09042	
##	CSI001	0.000000e+00	7.035977e-05	0	0	0	0	
##	CSI012	1.724971e-05	0.000000e+00	0	0	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0	

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## CSI076 0.000000e+00 0.000000e+00      0      0      0      0
##      0tu09043 0tu09044 0tu09045      0tu09046      0tu09047 0tu09048
## CSI001      0      0      0 0.000000e+00 0.000000e+00      0
## CSI012      0      0      0 0.000000e+00 0.000000e+00      0
## CSI022      0      0      0 0.000000e+00 0.000000e+00      0
## CSI044      0      0      0 0.000000e+00 0.000000e+00      0
## CSI055      0      0      0 0.000000e+00 0.000000e+00      0
## CSI065      0      0      0 0.000000e+00 7.56401e-05      0
## CSI076      0      0      0 0.000000e+00 0.000000e+00      0
##      0tu09049 0tu09050 0tu09051 0tu09052 0tu09053 0tu09054 0tu09055
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu09056      0tu09057 0tu09058 0tu09059      0tu09060      0tu09061
## CSI001      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI012      0 0.000000e+00      0      0 0.000000e+00 1.724971e-05
## CSI022      0 4.303111e-05      0      0 0.000000e+00 4.303111e-05
## CSI044      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI055      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI065      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI076      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
##      0tu09062      0tu09063 0tu09064      0tu09065 0tu09066 0tu09067
## CSI001 2.345326e-05 2.345326e-05      0 0.000000e+00      0      0
## CSI012 1.724971e-05 0.000000e+00      0 0.000000e+00      0      0
## CSI022 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI044 0.000000e+00 0.000000e+00      0 1.97157e-05      0      0
## CSI055 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI065 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI076 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
##      0tu09068      0tu09069 0tu09070 0tu09071 0tu09072 0tu09073
## CSI001 0.000000e+00 0.000000e+00      0      0      0      0
## CSI012 3.449941e-05 0.000000e+00      0      0      0      0
## CSI022 0.000000e+00 0.000000e+00      0      0      0      0
## CSI044 0.000000e+00 0.000000e+00      0      0      0      0
## CSI055 0.000000e+00 0.000000e+00      0      0      0      0
## CSI065 0.000000e+00 0.000000e+00      0      0      0      0
## CSI076 0.000000e+00 0.000000e+00      0      0      0      0
##      0tu09074      0tu09075 0tu09076 0tu09077 0tu09078      0tu09079
## CSI001      0 0.000000e+00      0      0      0 2.345326e-05
## CSI012      0 0.000000e+00      0      0      0 0.000000e+00
## CSI022      0 0.000000e+00      0      0      0 0.000000e+00
## CSI044      0 0.000000e+00      0      0      0 0.000000e+00
## CSI055      0 0.000000e+00      0      0      0 0.000000e+00
## CSI065      0 0.000000e+00      0      0      0 0.000000e+00
## CSI076      0 0.000000e+00      0      0      0 0.000000e+00
##      0tu09080 0tu09081 0tu09082 0tu09083 0tu09084      0tu09085
## CSI001      0      0      0      0      0 0.000000e+00
## CSI012      0      0      0      0      0 0.000000e+00
## CSI022      0      0      0      0      0 0.000000e+00
## CSI044      0      0      0      0      0 0.000000e+00

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## CSI055      0      0      0      0      0 0.000000e+00
## CSI065      0      0      0      0      0 0.000000e+00
## CSI076      0      0      0      0      0 0.000000e+00
##      0tu09086      0tu09087 0tu09088 0tu09089 0tu09090 0tu09091
## CSI001 2.345326e-05 0.000000e+00      0      0      0      0
## CSI012 1.724971e-05 0.000000e+00      0      0      0      0
## CSI022 0.000000e+00 0.000000e+00      0      0      0      0
## CSI044 0.000000e+00 0.000000e+00      0      0      0      0
## CSI055 0.000000e+00 0.000000e+00      0      0      0      0
## CSI065 0.000000e+00 0.000000e+00      0      0      0      0
## CSI076 0.000000e+00 0.000000e+00      0      0      0      0
##      0tu09092 0tu09093 0tu09094 0tu09095 0tu09096 0tu09097      0tu09098
## CSI001      0      0      0      0      0      0 0.000000000000
## CSI012      0      0      0      0      0      0 0.000000000000
## CSI022      0      0      0      0      0      0 0.000000000000
## CSI044      0      0      0      0      0      0 0.000000000000
## CSI055      0      0      0      0      0      0 0.000000000000
## CSI065      0      0      0      0      0      0 0.000000000000
## CSI076      0      0      0      0      0      0 0.000000000000
##      0tu09099      0tu09100 0tu09101 0tu09102      0tu09103 0tu09104
## CSI001      0 2.345326e-05      0      0 2.345326e-05      0
## CSI012      0 0.000000e+00      0      0 1.724971e-05      0
## CSI022      0 0.000000e+00      0      0 0.000000e+00      0
## CSI044      0 0.000000e+00      0      0 0.000000e+00      0
## CSI055      0 0.000000e+00      0      0 0.000000e+00      0
## CSI065      0 0.000000e+00      0      0 0.000000e+00      0
## CSI076      0 0.000000e+00      0      0 0.000000e+00      0
##      0tu09105 0tu09106 0tu09107 0tu09108 0tu09109 0tu09110 0tu09111
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu09112 0tu09113 0tu09114 0tu09115 0tu09116 0tu09117 0tu09118
## CSI001 0.000000e+00      0      0      0      0      0      0
## CSI012 0.000000e+00      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 0.000000e+00      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0      0
##      0tu09119 0tu09120 0tu09121 0tu09122 0tu09123 0tu09124      0tu09125
## CSI001      0      0      0      0      0      0 0.000000e+00
## CSI012      0      0      0      0      0      0 0.000000e+00
## CSI022      0      0      0      0      0      0 0.000000e+00
## CSI044      0      0      0      0      0      0 0.000000e+00
## CSI055      0      0      0      0      0      0 0.000000e+00
## CSI065      0      0      0      0      0      0 0.000000e+00
## CSI076      0      0      0      0      0      0 0.000000e+00
##      0tu09126 0tu09127 0tu09128 0tu09129 0tu09130 0tu09131
## CSI001 0.000000000000      0      0      0      0      0
## CSI012 0.000000000000      0      0      0      0      0

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##	CSI022	0.0000000000	0	0	0	0	0
##	CSI044	0.0000000000	0	0	0	0	0
##	CSI055	0.0000000000	0	0	0	0	0
##	CSI065	0.0000000000	0	0	0	0	0
##	CSI076	0.0000000000	0	0	0	0	0
##		0tu09132	0tu09133	0tu09134	0tu09135	0tu09136	0tu09137 0tu09138
##	CSI001	0.000000e+00	0	0	0	0	0 0
##	CSI012	0.000000e+00	0	0	0	0	0 0
##	CSI022	0.000000e+00	0	0	0	0	0 0
##	CSI044	0.000000e+00	0	0	0	0	0 0
##	CSI055	0.000000e+00	0	0	0	0	0 0
##	CSI065	0.000000e+00	0	0	0	0	0 0
##	CSI076	0.000000e+00	0	0	0	0	0 0
##		0tu09139	0tu09140	0tu09141	0tu09142	0tu09143	0tu09144 0tu09145
##	CSI001	0	0	0	0	0	0 0
##	CSI012	0	0	0	0	0	0 0
##	CSI022	0	0	0	0	0	0 0
##	CSI044	0	0	0	0	0	0 0
##	CSI055	0	0	0	0	0	0 0
##	CSI065	0	0	0	0	0	0 0
##	CSI076	0	0	0	0	0	0 0
##		0tu09146	0tu09147	0tu09148	0tu09149	0tu09150	0tu09151 0tu09152
##	CSI001	0	0	0	0	0	0 0
##	CSI012	0	0	0	0	0	0 0
##	CSI022	0	0	0	0	0	0 0
##	CSI044	0	0	0	0	0	0 0
##	CSI055	0	0	0	0	0	0 0
##	CSI065	0	0	0	0	0	0 0
##	CSI076	0	0	0	0	0	0 0
##		0tu09153	0tu09154	0tu09155	0tu09156	0tu09157	0tu09158
##	CSI001	0	0	0.000000e+00	0	0	0 0.000000e+00
##	CSI012	0	0	0.000000e+00	0	0	0 0.000000e+00
##	CSI022	0	0	6.454667e-05	0	0	0 0.000000e+00
##	CSI044	0	0	0.000000e+00	0	0	0 0.000000e+00
##	CSI055	0	0	0.000000e+00	0	0	0 0.000000e+00
##	CSI065	0	0	0.000000e+00	0	0	0 0.000000e+00
##	CSI076	0	0	0.000000e+00	0	0	0 2.890675e-05
##		0tu09159	0tu09160	0tu09161	0tu09162	0tu09163	0tu09164 0tu09165
##	CSI001	0	0	0	0	0	0 0.00000e+00 0
##	CSI012	0	0	0	0	0	0 0.00000e+00 0
##	CSI022	0	0	0	0	0	0 0.00000e+00 0
##	CSI044	0	0	0	0	0	0 7.88628e-05 0
##	CSI055	0	0	0	0	0	0 0.00000e+00 0
##	CSI065	0	0	0	0	0	0 0.00000e+00 0
##	CSI076	0	0	0	0	0	0 0.00000e+00 0
##		0tu09166	0tu09167	0tu09168	0tu09169	0tu09170	0tu09171 0tu09172
##	CSI001	0	0	0	0	0	0 0 0
##	CSI012	0	0	0	0	0	0 0 0
##	CSI022	0	0	0	0	0	0 0 0
##	CSI044	0	0	0	0	0	0 0 0
##	CSI055	0	0	0	0	0	0 0 0
##	CSI065	0	0	0	0	0	0 0 0
##	CSI076	0	0	0	0	0	0 0 0
##		0tu09173	0tu09174	0tu09175	0tu09176	0tu09177	0tu09178

##	CSI001	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI012	1.724971e-05	0	0	0.000000e+00	0	0	
##	CSI022	2.151556e-05	0	0	0.000000e+00	0	0	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI055	0.000000e+00	0	0	2.151417e-05	0	0	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0	
##		0tu09179	0tu09180	0tu09181	0tu09182	0tu09183	0tu09184	0tu09185
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09186	0tu09187	0tu09188	0tu09189	0tu09190	0tu09191	0tu09192
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09193	0tu09194	0tu09195	0tu09196	0tu09197	0tu09198	0tu09199
##	CSI001	0	0	0	0	0	0	2.345326e-05
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu09200	0tu09201	0tu09202	0tu09203	0tu09204	0tu09205	0tu09206
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09207	0tu09208	0tu09209	0tu09210	0tu09211	0tu09212	0tu09213
##	CSI001	0	0	0.00000e+00	0	0	0	0
##	CSI012	0	0	0.00000e+00	0	0	0	0
##	CSI022	0	0	0.00000e+00	0	0	0	0
##	CSI044	0	0	1.97157e-05	0	0	0	0
##	CSI055	0	0	0.00000e+00	0	0	0	0
##	CSI065	0	0	0.00000e+00	0	0	0	0
##	CSI076	0	0	0.00000e+00	0	0	0	0
##		0tu09214	0tu09215	0tu09216	0tu09217	0tu09218	0tu09219	
##	CSI001	0	0	0	0	0	0.000000e+00	
##	CSI012	0	0	0	0	0	0.000000e+00	
##	CSI022	0	0	0	0	0	2.151556e-05	
##	CSI044	0	0	0	0	0	0.000000e+00	
##	CSI055	0	0	0	0	0	0.000000e+00	
##	CSI065	0	0	0	0	0	0.000000e+00	

```

## CSI076      0      0      0      0      0 0.000000e+00
##      0tu09220 0tu09221 0tu09222 0tu09223 0tu09224 0tu09225 0tu09226
## CSI001 0.000000e+00      0      0      0      0      0      0
## CSI012 1.724971e-05      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 3.943140e-05      0      0      0      0      0      0
## CSI055 0.000000e+00      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0      0
##      0tu09227      0tu09228      0tu09229 0tu09230      0tu09231
## CSI001 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI012 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI022 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI044 0.000000e+00 0.000000e+00 0.000000e+00      0 1.971570e-05
## CSI055 0.000000e+00 0.000000e+00 0.000000e+00      0 2.151417e-05
## CSI065 3.782005e-05 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI076 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
##      0tu09232      0tu09233 0tu09234 0tu09235 0tu09236 0tu09237 0tu09238
## CSI001      0 7.035977e-05      0      0      0      0      0
## CSI012      0 0.000000e+00      0      0      0      0      0
## CSI022      0 0.000000e+00      0      0      0      0      0
## CSI044      0 0.000000e+00      0      0      0      0      0
## CSI055      0 0.000000e+00      0      0      0      0      0
## CSI065      0 0.000000e+00      0      0      0      0      0
## CSI076      0 0.000000e+00      0      0      0      0      0
##      0tu09239 0tu09240      0tu09241 0tu09242 0tu09243 0tu09244 0tu09245
## CSI001      0      0 0.000000e+00      0      0      0      0
## CSI012      0      0 0.000000e+00      0      0      0      0
## CSI022      0      0 0.000000e+00      0      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0      0
## CSI055      0      0 0.000000e+00      0      0      0      0
## CSI065      0      0 0.000000e+00      0      0      0      0
## CSI076      0      0 8.672024e-05      0      0      0      0
##      0tu09246 0tu09247      0tu09248      0tu09249 0tu09250 0tu09251
## CSI001      0      0 0.000000e+00 0.000000e+00      0      0
## CSI012      0      0 0.000000e+00 0.000000e+00      0      0
## CSI022      0      0 0.000000e+00 4.303111e-05      0      0
## CSI044      0      0 0.000000e+00 0.000000e+00      0      0
## CSI055      0      0 0.000000e+00 0.000000e+00      0      0
## CSI065      0      0 3.782005e-05 0.000000e+00      0      0
## CSI076      0      0 0.000000e+00 0.000000e+00      0      0
##      0tu09252 0tu09253 0tu09254 0tu09255 0tu09256 0tu09257      0tu09258
## CSI001      0      0      0      0      0      0 0.000000e+00
## CSI012      0      0      0      0      0      0 0.000000e+00
## CSI022      0      0      0      0      0      0 2.151556e-05
## CSI044      0      0      0      0      0      0 0.000000e+00
## CSI055      0      0      0      0      0      0 0.000000e+00
## CSI065      0      0      0      0      0      0 0.000000e+00
## CSI076      0      0      0      0      0      0 0.000000e+00
##      0tu09259 0tu09260 0tu09261 0tu09262 0tu09263 0tu09264 0tu09265
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0

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##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09266	0tu09267	0tu09268	0tu09269	0tu09270	0tu09271	
##	CSI001	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI012	0	0	0	0.000000e+00	0	1.724971e-05	
##	CSI022	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0	0	8.605667e-05	0	0.000000e+00	
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI076	0	0	0	0.000000e+00	0	0.000000e+00	
##		0tu09272	0tu09273	0tu09274	0tu09275	0tu09276		
##	CSI001	0	0.000000e+00	0	0.000000e+00	0.000000e+00		
##	CSI012	0	0.000000e+00	0	0.000000e+00	0.000000e+00		
##	CSI022	0	0.000000e+00	0	0.000000e+00	0.000000e+00		
##	CSI044	0	0.000000e+00	0	0.000000e+00	0.000000e+00		
##	CSI055	0	0.000000e+00	0	0.000000e+00	2.151417e-05		
##	CSI065	0	0.000000e+00	0	0.000000e+00	0.000000e+00		
##	CSI076	0	5.781349e-05	0	0.000000e+00	0.000000e+00		
##		0tu09277	0tu09278	0tu09279	0tu09280	0tu09281	0tu09282	0tu09283
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	7.88628e-05	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu09284	0tu09285	0tu09286	0tu09287	0tu09288	0tu09289	
##	CSI001	0	0	0	0	0.000000e+00	0	
##	CSI012	0	0	0	0	0.000000e+00	0	
##	CSI022	0	0	0	0	0.000000e+00	0	
##	CSI044	0	0	0	0	0.000000e+00	0	
##	CSI055	0	0	0	0	0.000000e+00	0	
##	CSI065	0	0	0	0	0.000000e+00	0	
##	CSI076	0	0	0	0	0.000000e+00	0	
##		0tu09290	0tu09291	0tu09292	0tu09293	0tu09294	0tu09295	
##	CSI001	2.345326e-05	0	0.000000e+00	0	0	0	
##	CSI012	0.000000e+00	0	1.724971e-05	0	0	0	
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI055	2.151417e-05	0	0.000000e+00	0	0	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0	
##		0tu09296	0tu09297	0tu09298	0tu09299	0tu09300	0tu09301	0tu09302
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09303	0tu09304	0tu09305	0tu09306	0tu09307	0tu09308	0tu09309
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	0tu09310	0tu09311	0tu09312	0tu09313	0tu09314	0tu09315		
##	CSI001	0	0	0	2.345326e-05	0	0.000000e+00	
##	CSI012	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI022	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	0	1.97157e-05	
##	CSI055	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI076	0	0	0	0.000000e+00	0	0.000000e+00	
##	0tu09316	0tu09317	0tu09318	0tu09319	0tu09320	0tu09321		
##	CSI001	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI012	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI022	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI065	0	0	0	3.782005e-05	0	0.000000e+00	
##	CSI076	0	0	0	0.000000e+00	0	0.000000e+00	
##	0tu09322	0tu09323	0tu09324	0tu09325	0tu09326	0tu09327		
##	CSI001	0	0.000000e+00	0	0	2.345326e-05	0	
##	CSI012	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI022	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI044	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI055	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI065	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI076	0	8.672024e-05	0	0	0.000000e+00	0	
##	0tu09328	0tu09329	0tu09330	0tu09331	0tu09332	0tu09333	0tu09334	
##	CSI001	0	0	0	0	0.000000e+00	0	
##	CSI012	0	0	0	0	0.000000e+00	0	
##	CSI022	0	0	0	0	0.000000e+00	0	
##	CSI044	0	0	0	0	0.000000e+00	0	
##	CSI055	0	0	0	0	0.000000e+00	0	
##	CSI065	0	0	0	0	0.000000e+00	0	
##	CSI076	0	0	0	0	0.000000e+00	0	
##	0tu09335	0tu09336	0tu09337	0tu09338	0tu09339	0tu09340	0tu09341	
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	6.45425e-05	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##	0tu09342	0tu09343	0tu09344	0tu09345	0tu09346	0tu09347	0tu09348	
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	2.151556e-05	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##	0tu09349	0tu09350	0tu09351	0tu09352	0tu09353	0tu09354		

##	CSI001	0	0	0	0.000000e+00	0.000000e+00	2.345326e-05
##	CSI012	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI022	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI055	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI076	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##		0tu09355	0tu09356	0tu09357	0tu09358	0tu09359	0tu09360
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu09362	0tu09363	0tu09364	0tu09365	0tu09366	0tu09367
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu09369	0tu09370	0tu09371	0tu09372	0tu09373	0tu09374
##	CSI001	0	0.000000e+00	0.00000e+00	0.000000e+00	0	0
##	CSI012	0	0.000000e+00	0.00000e+00	0.000000e+00	0	0
##	CSI022	0	0.000000e+00	0.00000e+00	0.000000e+00	0	0
##	CSI044	0	3.943140e-05	0.00000e+00	0.000000e+00	0	0
##	CSI055	0	0.000000e+00	0.00000e+00	0.000000e+00	0	0
##	CSI065	0	3.782005e-05	0.00000e+00	0.000000e+00	0	0
##	CSI076	0	0.000000e+00	0.00000e+00	0.000000e+00	0	0
##		0tu09375	0tu09376	0tu09377	0tu09378	0tu09379	0tu09380
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu09382	0tu09383	0tu09384	0tu09385	0tu09386	0tu09387
##	CSI001	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	6.454667e-05
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0.000000e+00
##		0tu09389	0tu09390	0tu09391	0tu09392	0tu09393	0tu09394
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##		0tu09396	0tu09397	0tu09398	0tu09399	0tu09400	0tu09401	0tu09402
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09403	0tu09404	0tu09405	0tu09406	0tu09407	0tu09408	0tu09409
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09410	0tu09411	0tu09412	0tu09413	0tu09414	0tu09415	0tu09416
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09417	0tu09418	0tu09419	0tu09420	0tu09421	0tu09422	
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu09423	0tu09424	0tu09425	0tu09426	0tu09427	0tu09428	
##	CSI001	0.0000000000	0	0.00000e+00	0	0.0000000000	0	0
##	CSI012	0.0000000000	0	0.00000e+00	0	0.0000000000	0	0
##	CSI022	0.0000000000	0	0.00000e+00	0	0.0000000000	0	0
##	CSI044	0.0000000000	0	0.00000e+00	0	0.0000000000	0	0
##	CSI055	0.0000000000	0	6.45425e-05	0	0.0000000000	0	0
##	CSI065	0.0001134602	0	0.00000e+00	0	0.0001134602	0	0
##	CSI076	0.0000000000	0	0.00000e+00	0	0.0000000000	0	0
##		0tu09429	0tu09430	0tu09431	0tu09432	0tu09433	0tu09434	0tu09435
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09436	0tu09437	0tu09438	0tu09439	0tu09440	0tu09441	0tu09442
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	3.449941e-05	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0



##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##	0tu09443	0tu09444	0tu09445	0tu09446	0tu09447	0tu09448		
##	CSI001	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI012	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI022	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI044	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI055	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI065	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI076	0	0.000000e+00	0	0	0	0.000000e+00	
##	0tu09449	0tu09450	0tu09451	0tu09452	0tu09453	0tu09454	0tu09455	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	0tu09456	0tu09457	0tu09458	0tu09459	0tu09460	0tu09461	0tu09462	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	0tu09463	0tu09464	0tu09465	0tu09466	0tu09467	0tu09468	0tu09469	
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##	0tu09470	0tu09471	0tu09472	0tu09473	0tu09474	0tu09475	0tu09476	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	0tu09477	0tu09478	0tu09479	0tu09480	0tu09481	0tu09482	0tu09483	
##	CSI001	0	0	0	0.00000e+00	0	0	0
##	CSI012	0	0	0	0.00000e+00	0	0	0
##	CSI022	0	0	0	0.00000e+00	0	0	0
##	CSI044	0	0	0	0.00000e+00	0	0	0
##	CSI055	0	0	0	6.45425e-05	0	0	0
##	CSI065	0	0	0	0.00000e+00	0	0	0
##	CSI076	0	0	0	0.00000e+00	0	0	0
##	0tu09484	0tu09485	0tu09486	0tu09487	0tu09488	0tu09489	0tu09490	
##	CSI001	0	0	0	4.690652e-05	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0

##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##	0tu09491	0tu09492	0tu09493	0tu09494	0tu09495	0tu09496	0tu09497	
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	4.302833e-05	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##	0tu09498	0tu09499	0tu09500	0tu09501	0tu09502	0tu09503	0tu09504	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	0tu09505	0tu09506	0tu09507	0tu09508	0tu09509	0tu09510		
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0	0
##	CSI012	0.000000e+00	1.724971e-05	0	0	0	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0	0
##	0tu09511	0tu09512	0tu09513	0tu09514	0tu09515	0tu09516		
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0	0
##	CSI012	0.000000e+00	0	0	0	1.724971e-05	0	0
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0	0
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0	0
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0	0
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0	0
##	CSI076	0.000000e+00	0	0	0	0.000000e+00	0	0
##	0tu09517	0tu09518	0tu09519	0tu09520	0tu09521	0tu09522	0tu09523	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	0tu09524	0tu09525	0tu09526	0tu09527	0tu09528	0tu09529		
##	CSI001	0.000000e+00	0	0	0	0	0.000000e+00	0
##	CSI012	0.000000e+00	0	0	0	0	0.000000e+00	0
##	CSI022	0.000000e+00	0	0	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0	0	0	0.000000e+00	0
##	CSI055	6.45425e-05	0	0	0	0	0.000000e+00	0
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00	0
##	CSI076	0.000000e+00	0	0	0	0	0.000000e+00	0
##	0tu09530	0tu09531	0tu09532	0tu09533	0tu09534	0tu09535	0tu09536	

##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09537	0tu09538	0tu09539	0tu09540	0tu09541	0tu09542	0tu09543
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09544	0tu09545	0tu09546	0tu09547	0tu09548	0tu09549	0tu09550
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	3.782005e-05	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu09551	0tu09552	0tu09553	0tu09554	0tu09555	0tu09556	0tu09557
##	CSI001	0	0	0	0.00000e+00	0	0	0
##	CSI012	0	0	0	0.00000e+00	0	0	0
##	CSI022	0	0	0	0.00000e+00	0	0	0
##	CSI044	0	0	0	0.00000e+00	0	0	0
##	CSI055	0	0	0	6.45425e-05	0	0	0
##	CSI065	0	0	0	0.00000e+00	0	0	0
##	CSI076	0	0	0	0.00000e+00	0	0	0
##		0tu09558	0tu09559	0tu09560	0tu09561	0tu09562	0tu09563	0tu09564
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	3.449941e-05	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu09565	0tu09566	0tu09567	0tu09568	0tu09569	0tu09570	0tu09571
##	CSI001	0	0	0	0	0	0	0.0000000000
##	CSI012	0	0	0	0	0	0	0.0000000000
##	CSI022	0	0	0	0	0	0	0.0000000000
##	CSI044	0	0	0	0	0	0	0.0000000000
##	CSI055	0	0	0	0	0	0	0.0000000000
##	CSI065	0	0	0	0	0	0	0.0001134602
##	CSI076	0	0	0	0	0	0	0.0000000000
##		0tu09572	0tu09573	0tu09574	0tu09575	0tu09576	0tu09577	0tu09578
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0

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## CSI076      0      0      0      0 0.000000e+00      0      0
##      0tu09579 0tu09580 0tu09581 0tu09582 0tu09583 0tu09584 0tu09585
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu09586 0tu09587 0tu09588 0tu09589 0tu09590 0tu09591 0tu09592
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu09593 0tu09594 0tu09595 0tu09596      0tu09597 0tu09598 0tu09599
## CSI001      0      0      0      0 0.000000e+00      0      0
## CSI012      0      0      0      0 0.000000e+00      0      0
## CSI022      0      0      0      0 0.000000e+00      0      0
## CSI044      0      0      0      0 0.000000e+00      0      0
## CSI055      0      0      0      0 0.000000e+00      0      0
## CSI065      0      0      0      0 0.000000e+00      0      0
## CSI076      0      0      0      0 0.000000e+00      0      0
##      0tu09600 0tu09601 0tu09602 0tu09603 0tu09604 0tu09605
## CSI001 0.000000e+00      0      0      0      0      0
## CSI012 1.724971e-05      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0
## CSI055 0.000000e+00      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0
##      0tu09606 0tu09607 0tu09608      0tu09609 0tu09610 0tu09611
## CSI001 0.000000e+00      0      0 0.000000e+00      0      0
## CSI012 0.000000e+00      0      0 1.724971e-05      0      0
## CSI022 0.000000e+00      0      0 0.000000e+00      0      0
## CSI044 0.000000e+00      0      0 0.000000e+00      0      0
## CSI055 0.000000e+00      0      0 0.000000e+00      0      0
## CSI065 0.000000e+00      0      0 0.000000e+00      0      0
## CSI076 0.000000e+00      0      0 0.000000e+00      0      0
##      0tu09612 0tu09613 0tu09614 0tu09615      0tu09616 0tu09617 0tu09618
## CSI001      0      0      0      0 0.000000e+00      0      0
## CSI012      0      0      0      0 0.000000e+00      0      0
## CSI022      0      0      0      0 0.000000e+00      0      0
## CSI044      0      0      0      0 0.000000e+00      0      0
## CSI055      0      0      0      0 0.000000e+00      0      0
## CSI065      0      0      0      0 0.000000e+00      0      0
## CSI076      0      0      0      0 0.000000e+00      0      0
##      0tu09619 0tu09620 0tu09621      0tu09622 0tu09623      0tu09624
## CSI001      0      0      0 0.000000e+00      0 0.000000e+00
## CSI012      0      0      0 0.000000e+00      0 0.000000e+00
## CSI022      0      0      0 0.000000e+00      0 2.151556e-05
## CSI044      0      0      0 0.000000e+00      0 0.000000e+00

```

##	CSI055	0	0	0	2.151417e-05	0	0.000000e+00
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI076	0	0	0	0.000000e+00	0	0.000000e+00
##		0tu09625	0tu09626	0tu09627	0tu09628	0tu09629	0tu09630
##	CSI001	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0.000000e+00	0
##		0tu09632	0tu09633	0tu09634	0tu09635	0tu09636	0tu09637
##	CSI001	0	0.000000e+00	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0
##		0tu09639	0tu09640	0tu09641	0tu09642	0tu09643	0tu09644
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI012	0.000000e+00	5.174912e-05	0	0	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI055	6.45425e-05	0.000000e+00	0	0	0	0
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu09645	0tu09646	0tu09647	0tu09648	0tu09649	0tu09650
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI012	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI055	2.151417e-05	0.000000e+00	0	0	0	0
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu09651	0tu09652	0tu09653	0tu09654	0tu09655	0tu09656
##	CSI001	0	0.000000e+00	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0
##		0tu09658	0tu09659	0tu09660	0tu09661	0tu09662	0tu09663
##	CSI001	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0.000000e+00	0	0
##		0tu09665	0tu09666	0tu09667	0tu09668	0tu09669	0tu09670
##	CSI001	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI012	0	0	0	0.000000e+00	0	0.000000e+00

##	CSI022	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI044	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI055	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI076	0	0	0	0.000000e+00	0	0.000000e+00
##		0tu09671	0tu09672	0tu09673	0tu09674	0tu09675	0tu09676
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu09678	0tu09679	0tu09680	0tu09681	0tu09682	0tu09683
##	CSI001	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0.000000e+00	0
##		0tu09685	0tu09686	0tu09687	0tu09688	0tu09689	0tu09690
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu09692	0tu09693	0tu09694	0tu09695	0tu09696	0tu09697
##	CSI001	0	0	0	0	0	0.00000e+00
##	CSI012	0	0	0	0	0	0.00000e+00
##	CSI022	0	0	0	0	0	0.00000e+00
##	CSI044	0	0	0	0	0	5.91471e-05
##	CSI055	0	0	0	0	0	0.00000e+00
##	CSI065	0	0	0	0	0	0.00000e+00
##	CSI076	0	0	0	0	0	0.00000e+00
##		0tu09699	0tu09700	0tu09701	0tu09702	0tu09703	0tu09704
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu09706	0tu09707	0tu09708	0tu09709	0tu09710	0tu09711
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	1.97157e-05
##	CSI055	0	0	0	0	0	0.00000e+00
##	CSI065	0	0	0	0	0	0.00000e+00
##	CSI076	0	0	0	0	0	0.00000e+00
##		0tu09713	0tu09714	0tu09715	0tu09716	0tu09717	0tu09718
##							0tu09719

##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	2.151556e-05	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu09720	0tu09721	0tu09722	0tu09723	0tu09724	0tu09725	0tu09726
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09727	0tu09728	0tu09729	0tu09730	0tu09731	0tu09732	0tu09733
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	4.303111e-05	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu09734	0tu09735	0tu09736	0tu09737	0tu09738	0tu09739	0tu09740
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09741	0tu09742	0tu09743	0tu09744	0tu09745	0tu09746	0tu09747
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09748	0tu09749	0tu09750	0tu09751	0tu09752	0tu09753	0tu09754
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09755	0tu09756	0tu09757	0tu09758	0tu09759	0tu09760	0tu09761
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##	0tu09762	0tu09763	0tu09764	0tu09765	0tu09766	0tu09767	0tu09768	
##	CSI001	0 0.000000e+00	0	0	0	0	0	
##	CSI012	0 0.000000e+00	0	0	0	0	0	
##	CSI022	0 0.000000e+00	0	0	0	0	0	
##	CSI044	0 0.000000e+00	0	0	0	0	0	
##	CSI055	0 0.000000e+00	0	0	0	0	0	
##	CSI065	0 0.000000e+00	0	0	0	0	0	
##	CSI076	0 0.000000e+00	0	0	0	0	0	
##	0tu09769	0tu09770	0tu09771	0tu09772	0tu09773	0tu09774	0tu09775	
##	CSI001	0 0.00000e+00	0	0	0	0	0	
##	CSI012	0 0.00000e+00	0	0	0	0	0	
##	CSI022	0 0.00000e+00	0	0	0	0	0	
##	CSI044	0 0.00000e+00	0	0	0	0	0	
##	CSI055	0 6.45425e-05	0	0	0	0	0	
##	CSI065	0 0.00000e+00	0	0	0	0	0	
##	CSI076	0 0.00000e+00	0	0	0	0	0	
##	0tu09776	0tu09777	0tu09778	0tu09779	0tu09780	0tu09781	0tu09782	
##	CSI001	0 0 2.345326e-05	0	0	0	0	0	
##	CSI012	0 0 0.000000e+00	0	0	0	0	0	
##	CSI022	0 0 0.000000e+00	0	0	0	0	0	
##	CSI044	0 0 0.000000e+00	0	0	0	0	0	
##	CSI055	0 0 0.000000e+00	0	0	0	0	0	
##	CSI065	0 0 0.000000e+00	0	0	0	0	0	
##	CSI076	0 0 0.000000e+00	0	0	0	0	0	
##	0tu09783	0tu09784	0tu09785	0tu09786	0tu09787	0tu09788	0tu09789	
##	CSI001	0.000000e+00	0	0	0	0	0	
##	CSI012	0.000000e+00	0	0	0	0	0	
##	CSI022	0.000000e+00	0	0	0	0	0	
##	CSI044	0.000000e+00	0	0	0	0	0	
##	CSI055	0.000000e+00	0	0	0	0	0	
##	CSI065	0.000000e+00	0	0	0	0	0	
##	CSI076	0.000000e+00	0	0	0	0	0	
##	0tu09790	0tu09791	0tu09792	0tu09793	0tu09794	0tu09795	0tu09796	
##	CSI001	0	0	0	0	0	0	
##	CSI012	0	0	0	0	0	0	
##	CSI022	0	0	0	0	0	0	
##	CSI044	0	0	0	0	0	0	
##	CSI055	0	0	0	0	0	0	
##	CSI065	0	0	0	0	0	0	
##	CSI076	0	0	0	0	0	0	
##	0tu09797	0tu09798	0tu09799	0tu09800	0tu09801	0tu09802	0tu09803	
##	CSI001	0	0	0	0 0.000000e+00	0	0	
##	CSI012	0	0	0	0 0.000000e+00	0	0	
##	CSI022	0	0	0	0 0.000000e+00	0	0	
##	CSI044	0	0	0	0 0.000000e+00	0	0	
##	CSI055	0	0	0	0 0.000000e+00	0	0	
##	CSI065	0	0	0	0 0.000000e+00	0	0	
##	CSI076	0	0	0	0 0.000000e+00	0	0	
##	0tu09804	0tu09805	0tu09806	0tu09807	0tu09808	0tu09809	0tu09810	
##	CSI001	0	0	0	0	0	0	
##	CSI012	0	0	0	0	0	0	
##	CSI022	0	0	0	0	0	0	
##	CSI044	0	0	0	0	0	0	



##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	0tu09811	0tu09812	0tu09813	0tu09814	0tu09815	0tu09816		
##	CSI001	0	0 0.000000e+00	0	0	0 0.000000e+00		
##	CSI012	0	0 0.000000e+00	0	0	0 0.000000e+00		
##	CSI022	0	0 0.000000e+00	0	0	2.151556e-05		
##	CSI044	0	0 0.000000e+00	0	0	0 0.000000e+00		
##	CSI055	0	0 0.000000e+00	0	0	0 0.000000e+00		
##	CSI065	0	0 0.000000e+00	0	0	0 0.000000e+00		
##	CSI076	0	0 0.000000e+00	0	0	0 0.000000e+00		
##	0tu09817	0tu09818	0tu09819	0tu09820	0tu09821	0tu09822	0tu09823	
##	CSI001	0	0	0	0	0	0	
##	CSI012	0	0	0	0	0	0	
##	CSI022	0	0	0	0	0	0	
##	CSI044	0	0	0	0	0	0	
##	CSI055	0	0	0	0	0	0	
##	CSI065	0	0	0	0	0	0	
##	CSI076	0	0	0	0	0	0	
##	0tu09824	0tu09825	0tu09826	0tu09827	0tu09828	0tu09829	0tu09830	
##	CSI001	0 0.00000e+00	0	0	0	0	0	
##	CSI012	0 0.00000e+00	0	0	0	0	0	
##	CSI022	0 0.00000e+00	0	0	0	0	0	
##	CSI044	0 0.00000e+00	0	0	0	0	0	
##	CSI055	0 6.45425e-05	0	0	0	0	0	
##	CSI065	0 0.00000e+00	0	0	0	0	0	
##	CSI076	0 0.00000e+00	0	0	0	0	0	
##	0tu09831	0tu09832	0tu09833	0tu09834	0tu09835	0tu09836	0tu09837	
##	CSI001	0	0	0	0	0	0	
##	CSI012	0	0	0	0	0	0	
##	CSI022	0	0	0	0	0	0	
##	CSI044	0	0	0	0	0	0	
##	CSI055	0	0	0	0	0	0	
##	CSI065	0	0	0	0	0	0	
##	CSI076	0	0	0	0	0	0	
##	0tu09838	0tu09839	0tu09840	0tu09841	0tu09842	0tu09843	0tu09844	
##	CSI001	0	0	0	0	0	0	
##	CSI012	0	0	0	0	0	0	
##	CSI022	0	0	0	0	0	0	
##	CSI044	0	0	0	0	0	0	
##	CSI055	0	0	0	0	0	0	
##	CSI065	0	0	0	0	0	0	
##	CSI076	0	0	0	0	0	0	
##	0tu09845	0tu09846	0tu09847	0tu09848	0tu09849	0tu09850	0tu09851	
##	CSI001	0 0.00000e+00	0	0	0	0	0	
##	CSI012	0 0.00000e+00	0	0	0	0	0	
##	CSI022	0 0.00000e+00	0	0	0	0	0	
##	CSI044	0 0.00000e+00	0	0	0	0	0	
##	CSI055	0 6.45425e-05	0	0	0	0	0	
##	CSI065	0 0.00000e+00	0	0	0	0	0	
##	CSI076	0 0.00000e+00	0	0	0	0	0	
##	0tu09852	0tu09853	0tu09854	0tu09855	0tu09856	0tu09857	0tu09858	
##	CSI001	0	0 0.000000e+00	0	0	0	0	
##	CSI012	0	0 0.000000e+00	0	0	0	0	

##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		0tu09859	0tu09860	0tu09861	0tu09862	0tu09863	0tu09864	0tu09865
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09866	0tu09867	0tu09868	0tu09869	0tu09870	0tu09871	0tu09872
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09873	0tu09874	0tu09875	0tu09876	0tu09877	0tu09878	0tu09879
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09880	0tu09881	0tu09882	0tu09883	0tu09884	0tu09885	0tu09886
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	2.151556e-05	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu09887	0tu09888	0tu09889	0tu09890	0tu09891	0tu09892	0tu09893
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu09894	0tu09895	0tu09896	0tu09897	0tu09898	0tu09899	0tu09900
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu09901	0tu09902	0tu09903	0tu09904	0tu09905	0tu09906	

##	CSI001	0	0	0.000000e+00	0	0	4.690652e-05
##	CSI012	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI022	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI044	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI055	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI065	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI076	0	0	0.000000e+00	0	0	0.000000e+00
##		0tu09907	0tu09908	0tu09909	0tu09910	0tu09911	0tu09912 0tu09913
##	CSI001	0	0	0	0	0	0.000000e+00 0
##	CSI012	0	0	0	0	0	0.000000e+00 0
##	CSI022	0	0	0	0	0	0.000000e+00 0
##	CSI044	0	0	0	0	0	0.000000e+00 0
##	CSI055	0	0	0	0	0	0.000000e+00 0
##	CSI065	0	0	0	0	0	0.000000e+00 0
##	CSI076	0	0	0	0	0	0.000000e+00 0
##		0tu09914	0tu09915	0tu09916	0tu09917	0tu09918	0tu09919 0tu09920
##	CSI001	0	0	0	0	0.000000e+00	0 0
##	CSI012	0	0	0	0	1.724971e-05	0 0
##	CSI022	0	0	0	0	0.000000e+00	0 0
##	CSI044	0	0	0	0	0.000000e+00	0 0
##	CSI055	0	0	0	0	0.000000e+00	0 0
##	CSI065	0	0	0	0	0.000000e+00	0 0
##	CSI076	0	0	0	0	0.000000e+00	0 0
##		0tu09921	0tu09922	0tu09923	0tu09924	0tu09925	0tu09926 0tu09927
##	CSI001	0	0	0	0	0	0 0
##	CSI012	0	0	0	0	0	0 0
##	CSI022	0	0	0	0	0	0 0
##	CSI044	0	0	0	0	0	0 0
##	CSI055	0	0	0	0	0	0 0
##	CSI065	0	0	0	0	0	0 0
##	CSI076	0	0	0	0	0	0 0
##		0tu09928	0tu09929	0tu09930	0tu09931	0tu09932	0tu09933 0tu09934
##	CSI001	0	4.690652e-05	0	0	0	0 0
##	CSI012	0	0.000000e+00	0	0	0	0 0
##	CSI022	0	0.000000e+00	0	0	0	0 0
##	CSI044	0	0.000000e+00	0	0	0	0 0
##	CSI055	0	0.000000e+00	0	0	0	0 0
##	CSI065	0	0.000000e+00	0	0	0	0 0
##	CSI076	0	0.000000e+00	0	0	0	0 0
##		0tu09935	0tu09936	0tu09937	0tu09938	0tu09939	0tu09940 0tu09941
##	CSI001	0	0	0	0	0	7.035977e-05 0
##	CSI012	0	0	0	0	0	0.000000e+00 0
##	CSI022	0	0	0	0	0	0.000000e+00 0
##	CSI044	0	0	0	0	0	0.000000e+00 0
##	CSI055	0	0	0	0	0	0.000000e+00 0
##	CSI065	0	0	0	0	0	0.000000e+00 0
##	CSI076	0	0	0	0	0	0.000000e+00 0
##		0tu09942	0tu09943	0tu09944	0tu09945	0tu09946	0tu09947 0tu09948
##	CSI001	0.00000e+00	0	0	0	0	0 0
##	CSI012	0.00000e+00	0	0	0	0	0 0
##	CSI022	0.00000e+00	0	0	0	0	0 0
##	CSI044	5.91471e-05	0	0	0	0	0 0
##	CSI055	0.00000e+00	0	0	0	0	0 0
##	CSI065	0.00000e+00	0	0	0	0	0 0

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## CSI076 0.00000e+00      0      0      0      0      0      0
##      0tu09949 0tu09950 0tu09951 0tu09952 0tu09953 0tu09954 0tu09955
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu09956 0tu09957 0tu09958      0tu09959 0tu09960 0tu09961 0tu09962
## CSI001      0      0      0 0.000000e+00      0      0      0
## CSI012      0      0      0 1.724971e-05      0      0      0
## CSI022      0      0      0 2.151556e-05      0      0      0
## CSI044      0      0      0 0.000000e+00      0      0      0
## CSI055      0      0      0 0.000000e+00      0      0      0
## CSI065      0      0      0 0.000000e+00      0      0      0
## CSI076      0      0      0 0.000000e+00      0      0      0
##      0tu09963 0tu09964      0tu09965 0tu09966 0tu09967 0tu09968 0tu09969
## CSI001      0      0 0.000000e+00      0      0      0      0
## CSI012      0      0 0.000000e+00      0      0      0      0
## CSI022      0      0 0.000000e+00      0      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0      0
## CSI055      0      0 0.000000e+00      0      0      0      0
## CSI065      0      0 7.56401e-05      0      0      0      0
## CSI076      0      0 0.000000e+00      0      0      0      0
##      0tu09970 0tu09971 0tu09972 0tu09973 0tu09974 0tu09975 0tu09976
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu09977      0tu09978 0tu09979      0tu09980 0tu09981 0tu09982
## CSI001 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI012 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI022 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI044 5.91471e-05 0.000000e+00      0 0.000000e+00      0      0
## CSI055 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI065 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI076 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
##      0tu09983 0tu09984      0tu09985 0tu09986 0tu09987 0tu09988 0tu09989
## CSI001      0      0 0.000000e+00      0      0      0      0
## CSI012      0      0 0.000000e+00      0      0      0      0
## CSI022      0      0 0.000000e+00      0      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0      0
## CSI055      0      0 0.000000e+00      0      0      0      0
## CSI065      0      0 0.000000e+00      0      0      0      0
## CSI076      0      0 0.000000e+00      0      0      0      0
##      0tu09990 0tu09991 0tu09992 0tu09993 0tu09994      0tu09995
## CSI001 0.0000000000      0      0      0      0 0.000000e+00
## CSI012 0.0000000000      0      0      0      0 1.724971e-05
## CSI022 0.0000000000      0      0      0      0 0.000000e+00
## CSI044 0.0000000000      0      0      0      0 0.000000e+00

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##	CSI055	0.0000000000	0	0	0	0	0.000000e+00	
##	CSI065	0.0001134602	0	0	0	0	0.000000e+00	
##	CSI076	0.0000000000	0	0	0	0	0.000000e+00	
##		0tu09996	0tu09997	0tu09998	0tu09999	0tu10000	0tu10001	0tu10002
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu10003	0tu10004	0tu10005	0tu10006	0tu10007	0tu10008	0tu10009
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	5.781349e-05	0	0	0
##		0tu10010	0tu10011	0tu10012	0tu10013	0tu10014	0tu10015	0tu10016
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		0tu10017	0tu10018	0tu10019	0tu10020	0tu10021	0tu10022	
##	CSI001	0	0	0	0	0.000000e+00	0	
##	CSI012	0	0	0	0	0.000000e+00	0	
##	CSI022	0	0	0	0	0.000000e+00	0	
##	CSI044	0	0	0	0	0.000000e+00	0	
##	CSI055	0	0	0	0	0.000000e+00	0	
##	CSI065	0	0	0	0	0.000000e+00	0	
##	CSI076	0	0	0	0	0.000000e+00	0	
##		0tu10023	0tu10024	0tu10025	0tu10026	0tu10027	0tu10028	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI076	0.000000e+00	0	5.781349e-05	0	0	0	
##		0tu10029	0tu10030	0tu10031	0tu10032	0tu10033	0tu10034	
##	CSI001	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI012	1.724971e-05	0	0.000000e+00	1.724971e-05	0	0	
##	CSI022	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI055	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI076	5.781349e-05	0	0.000000e+00	0.000000e+00	0	0	
##		0tu10035	0tu10036	0tu10037	0tu10038	0tu10039	0tu10040	0tu10041
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu10042	0tu10043	0tu10044	0tu10045	0tu10046	0tu10047	0tu10048
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu10049	0tu10050	0tu10051	0tu10052	0tu10053	0tu10054	
##	CSI001	0.000000e+00	0	4.690652e-05	0.000000e+00	0	0	
##	CSI012	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI022	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI055	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI076	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##		0tu10055	0tu10056	0tu10057	0tu10058	0tu10059	0tu10060	0tu10061
##	CSI001	0	0	0.00000e+00	0	0	0	0
##	CSI012	0	0	0.00000e+00	0	0	0	0
##	CSI022	0	0	0.00000e+00	0	0	0	0
##	CSI044	0	0	5.91471e-05	0	0	0	0
##	CSI055	0	0	0.00000e+00	0	0	0	0
##	CSI065	0	0	0.00000e+00	0	0	0	0
##	CSI076	0	0	0.00000e+00	0	0	0	0
##		0tu10062	0tu10063	0tu10064	0tu10065	0tu10066	0tu10067	
##	CSI001	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI012	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI022	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI044	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0	0.000000e+00	0.000000e+00	0	2.151417e-05	
##	CSI065	0	0	0.000000e+00	3.782005e-05	0	0.000000e+00	
##	CSI076	0	0	0.000000e+00	0.000000e+00	0	2.890675e-05	
##		0tu10068	0tu10069	0tu10070	0tu10071	0tu10072	0tu10073	0tu10074
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu10075	0tu10076	0tu10077	0tu10078	0tu10079	0tu10080	0tu10081
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu10082	0tu10083	0tu10084	0tu10085	0tu10086	0tu10087	0tu10088

##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	2.151556e-05	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##	Otu10089	Otu10090	Otu10091	Otu10092	Otu10093	Otu10094	Otu10095	
##	CSI001	0	0	0	0 0.000000e+00	0	0	
##	CSI012	0	0	0	0 5.174912e-05	0	0	
##	CSI022	0	0	0	0 0.000000e+00	0	0	
##	CSI044	0	0	0	0 0.000000e+00	0	0	
##	CSI055	0	0	0	0 0.000000e+00	0	0	
##	CSI065	0	0	0	0 0.000000e+00	0	0	
##	CSI076	0	0	0	0 0.000000e+00	0	0	
##	Otu10096	Otu10097	Otu10098	Otu10099	Otu10100	Otu10101	Otu10102	
##	CSI001	0	4.690652e-05	0	0	0	0	
##	CSI012	0	0.000000e+00	0	0	0	0	
##	CSI022	0	2.151556e-05	0	0	0	0	
##	CSI044	0	0.000000e+00	0	0	0	0	
##	CSI055	0	0.000000e+00	0	0	0	0	
##	CSI065	0	0.000000e+00	0	0	0	0	
##	CSI076	0	0.000000e+00	0	0	0	0	
##	Otu10103	Otu10104	Otu10105	Otu10106	Otu10107	Otu10108	Otu10109	
##	CSI001	0	0	0	0	0	0	
##	CSI012	0	0	0	0	0	0	
##	CSI022	0	0	0	0	0	0	
##	CSI044	0	0	0	0	0	0	
##	CSI055	0	0	0	0	0	0	
##	CSI065	0	0	0	0	0	0	
##	CSI076	0	0	0	0	0	0	
##	Otu10110	Otu10111	Otu10112	Otu10113	Otu10114	Otu10115	Otu10116	
##	CSI001	0	0	0	0.000000e+00	0	0	
##	CSI012	0	0	0	0.000000e+00	0	0	
##	CSI022	0	0	0	0.000000e+00	0	0	
##	CSI044	0	0	0	0.000000e+00	0	0	
##	CSI055	0	0	0	0.000000e+00	0	0	
##	CSI065	0	0	0	0.000000e+00	0	0	
##	CSI076	0	0	0	0.000000e+00	0	0	
##	Otu10117	Otu10118	Otu10119	Otu10120	Otu10121	Otu10122	Otu10123	
##	CSI001	0	0	0	0	0	0	
##	CSI012	0	0	0	0	0	0	
##	CSI022	0	0	0	0	0	0	
##	CSI044	0	0	0	0	0	0	
##	CSI055	0	0	0	0	0	0	
##	CSI065	0	0	0	0	0	0	
##	CSI076	0	0	0	0	0	0	
##	Otu10124	Otu10125	Otu10126	Otu10127	Otu10128	Otu10129		
##	CSI001	0.000000e+00	0	0	0	0 0.000000e+00		
##	CSI012	5.174912e-05	0	0	0	0 0.000000e+00		
##	CSI022	0.000000e+00	0	0	0	0 0.000000e+00		
##	CSI044	0.000000e+00	0	0	0	0 0.000000e+00		
##	CSI055	0.000000e+00	0	0	0	0 0.000000e+00		
##	CSI065	0.000000e+00	0	0	0	0 0.000000e+00		

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## CSI076 0.000000e+00      0      0      0      0 2.890675e-05
##      0tu10130 0tu10131 0tu10132 0tu10133 0tu10134 0tu10135 0tu10136
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu10137 0tu10138 0tu10139 0tu10140 0tu10141      0tu10142 0tu10143
## CSI001      0      0      0      0      0 0.000000e+00      0
## CSI012      0      0      0      0      0 0.000000e+00      0
## CSI022      0      0      0      0      0 2.151556e-05      0
## CSI044      0      0      0      0      0 0.000000e+00      0
## CSI055      0      0      0      0      0 0.000000e+00      0
## CSI065      0      0      0      0      0 0.000000e+00      0
## CSI076      0      0      0      0      0 0.000000e+00      0
##      0tu10144 0tu10145      0tu10146 0tu10147 0tu10148 0tu10149
## CSI001 0.000000e+00      0 0.000000e+00      0      0      0
## CSI012 1.724971e-05      0 0.000000e+00      0      0      0
## CSI022 0.000000e+00      0 4.303111e-05      0      0      0
## CSI044 0.000000e+00      0 0.000000e+00      0      0      0
## CSI055 0.000000e+00      0 0.000000e+00      0      0      0
## CSI065 0.000000e+00      0 0.000000e+00      0      0      0
## CSI076 0.000000e+00      0 0.000000e+00      0      0      0
##      0tu10150 0tu10151 0tu10152 0tu10153 0tu10154 0tu10155 0tu10156
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu10157 0tu10158 0tu10159 0tu10160 0tu10161 0tu10162 0tu10163
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu10164 0tu10165 0tu10166 0tu10167 0tu10168 0tu10169 0tu10170
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu10171 0tu10172 0tu10173      0tu10174 0tu10175 0tu10176 0tu10177
## CSI001      0      0      0 0.000000e+00      0      0      0
## CSI012      0      0      0 0.000000e+00      0      0      0
## CSI022      0      0      0 0.000000e+00      0      0      0
## CSI044      0      0      0 0.000000e+00      0      0      0

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##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		Otu10178	Otu10179	Otu10180	Otu10181	Otu10182	Otu10183	
##	CSI001	0.000000e+00	0	0	0	0	0	
##	CSI012	0.000000e+00	0	0	0	0	0	
##	CSI022	0.000000e+00	0	0	0	0	0	
##	CSI044	0.000000e+00	0	0	0	0	0	
##	CSI055	0.000000e+00	0	0	0	0	0	
##	CSI065	0.000000e+00	0	0	0	0	0	
##	CSI076	0.000000e+00	0	0	0	0	0	
##		Otu10184	Otu10185	Otu10186	Otu10187	Otu10188	Otu10189	
##	CSI001	0.000000e+00	0	0	0	0	0	
##	CSI012	0.000000e+00	0	0	0	0	0	
##	CSI022	0.000000e+00	0	0	0	0	0	
##	CSI044	0.000000e+00	0	0	0	0	0	
##	CSI055	0.000000e+00	0	0	0	0	0	
##	CSI065	0.000000e+00	0	0	0	0	0	
##	CSI076	0.000000e+00	0	0	0	0	0	
##		Otu10190	Otu10191	Otu10192	Otu10193	Otu10194	Otu10195	
##	CSI001	2.345326e-05	0	0.000000e+00	0	7.035977e-05	0	
##	CSI012	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI022	0.000000e+00	0	4.303111e-05	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##		Otu10196	Otu10197	Otu10198	Otu10199	Otu10200	Otu10201	
##	CSI001	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI012	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI022	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI055	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI076	0	0	0	0.000000e+00	5.781349e-05	0.000000e+00	
##		Otu10202	Otu10203	Otu10204	Otu10205	Otu10206	Otu10207	Otu10208
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu10209	Otu10210	Otu10211	Otu10212	Otu10213	Otu10214	Otu10215
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu10216	Otu10217	Otu10218	Otu10219	Otu10220	Otu10221	Otu10222
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0

##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu10223	0tu10224	0tu10225	0tu10226	0tu10227	0tu10228	0tu10229
##	CSI001	4.690652e-05	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu10230	0tu10231	0tu10232	0tu10233	0tu10234	0tu10235	0tu10236
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu10237	0tu10238	0tu10239	0tu10240	0tu10241	0tu10242	0tu10243
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	2.890675e-05	0
##		0tu10244	0tu10245	0tu10246	0tu10247	0tu10248	0tu10249	
##	CSI001	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI012	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI022	0.000000e+00	0	0	0	0	4.303111e-05	
##	CSI044	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI055	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI076	0.000000e+00	0	0	0	0	0.000000e+00	
##		0tu10250	0tu10251	0tu10252	0tu10253	0tu10254	0tu10255	0tu10256
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	1.724971e-05	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		0tu10257	0tu10258	0tu10259	0tu10260	0tu10261	0tu10262	
##	CSI001	0	0	0	0.000000e+00	0	0	
##	CSI012	0	0	0	0.000000e+00	0	0	
##	CSI022	0	0	0	0.000000e+00	0	0	
##	CSI044	0	0	0	0.000000e+00	0	0	
##	CSI055	0	0	0	0.000000e+00	0	0	
##	CSI065	0	0	0	0.000000e+00	0	0	
##	CSI076	0	0	0	0.000000e+00	0	0	
##		0tu10263	0tu10264	0tu10265	0tu10266	0tu10267	0tu10268	

##	CSI001	0.000000e+00	4.690652e-05	0	0.000000e+00	0	0
##	CSI012	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI022	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI044	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI055	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI065	3.782005e-05	0.000000e+00	0	0.000000e+00	0	0
##	CSI076	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##		0tu10269	0tu10270	0tu10271	0tu10272	0tu10273	0tu10274
##	CSI001	0	0.000000e+00	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0
##		0tu10276	0tu10277	0tu10278	0tu10279	0tu10280	0tu10281
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu10283	0tu10284	0tu10285	0tu10286	0tu10287	0tu10288
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu10290	0tu10291	0tu10292	0tu10293	0tu10294	0tu10295
##	CSI001	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	2.890675e-05
##		0tu10297	0tu10298	0tu10299	0tu10300	0tu10301	0tu10302
##	CSI001	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0.000000e+00	0	0
##		0tu10304	0tu10305	0tu10306	0tu10307	0tu10308	0tu10309
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0

```

## CSI076 0.000000e+00      0 2.890675e-05      0      0      0
##      0tu10310 0tu10311 0tu10312 0tu10313 0tu10314 0tu10315 0tu10316
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu10317 0tu10318 0tu10319 0tu10320      0tu10321 0tu10322 0tu10323
## CSI001      0      0      0      0 0.000000e+00      0      0
## CSI012      0      0      0      0 5.174912e-05      0      0
## CSI022      0      0      0      0 0.000000e+00      0      0
## CSI044      0      0      0      0 0.000000e+00      0      0
## CSI055      0      0      0      0 0.000000e+00      0      0
## CSI065      0      0      0      0 0.000000e+00      0      0
## CSI076      0      0      0      0 0.000000e+00      0      0
##      0tu10324 0tu10325      0tu10326      0tu10327 0tu10328 0tu10329
## CSI001      0      0 0.000000e+00 2.345326e-05      0      0
## CSI012      0      0 0.000000e+00 0.000000e+00      0      0
## CSI022      0      0 0.000000e+00 0.000000e+00      0      0
## CSI044      0      0 0.000000e+00 0.000000e+00      0      0
## CSI055      0      0 0.000000e+00 0.000000e+00      0      0
## CSI065      0      0 0.000000e+00 0.000000e+00      0      0
## CSI076      0      0 0.000000e+00 0.000000e+00      0      0
##      0tu10330      0tu10331 0tu10332 0tu10333 0tu10334 0tu10335 0tu10336
## CSI001      0 0.000000e+00      0      0      0      0      0
## CSI012      0 0.000000e+00      0      0      0      0      0
## CSI022      0 0.000000e+00      0      0      0      0      0
## CSI044      0 0.000000e+00      0      0      0      0      0
## CSI055      0 0.000000e+00      0      0      0      0      0
## CSI065      0 0.000000e+00      0      0      0      0      0
## CSI076      0 2.890675e-05      0      0      0      0      0
##      0tu10337 0tu10338 0tu10339 0tu10340      0tu10341 0tu10342 0tu10343
## CSI001      0      0      0      0 0.000000e+00      0      0
## CSI012      0      0      0      0 0.000000e+00      0      0
## CSI022      0      0      0      0 0.000000e+00      0      0
## CSI044      0      0      0      0 0.000000e+00      0      0
## CSI055      0      0      0      0 0.000000e+00      0      0
## CSI065      0      0      0      0 3.782005e-05      0      0
## CSI076      0      0      0      0 0.000000e+00      0      0
##      0tu10344 0tu10345 0tu10346 0tu10347      0tu10348 0tu10349 0tu10350
## CSI001      0      0      0      0 0.000000e+00      0      0
## CSI012      0      0      0      0 0.000000e+00      0      0
## CSI022      0      0      0      0 0.000000e+00      0      0
## CSI044      0      0      0      0 0.000000e+00      0      0
## CSI055      0      0      0      0 0.000000e+00      0      0
## CSI065      0      0      0      0 0.000000e+00      0      0
## CSI076      0      0      0      0 0.000000e+00      0      0
##      0tu10351 0tu10352 0tu10353 0tu10354 0tu10355 0tu10356 0tu10357
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0

```

##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu10358	Otu10359	Otu10360	Otu10361	Otu10362	Otu10363	Otu10364
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu10365	Otu10366	Otu10367	Otu10368	Otu10369	Otu10370	
##	CSI001	0	2.345326e-05	0.000000e+00	0	0	0	0
##	CSI012	0	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI022	0	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	7.56401e-05	0	0	0	0
##	CSI076	0	0.000000e+00	0.000000e+00	0	0	0	0
##		Otu10371	Otu10372	Otu10373	Otu10374	Otu10375	Otu10376	
##	CSI001	0.000000e+00	0	2.345326e-05	0	0	0	0
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI055	2.151417e-05	0	0.000000e+00	0	0	0	0
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0	0
##		Otu10377	Otu10378	Otu10379	Otu10380	Otu10381	Otu10382	Otu10383
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		Otu10384	Otu10385	Otu10386	Otu10387	Otu10388	Otu10389	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0	0
##		Otu10390	Otu10391	Otu10392	Otu10393	Otu10394	Otu10395	
##	CSI001	0.000000e+00	0	0	0	0	0.000000e+00	0
##	CSI012	0.000000e+00	0	0	0	0	5.174912e-05	0
##	CSI022	0.000000e+00	0	0	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0	0	0	0.000000e+00	0
##	CSI055	0.000000e+00	0	0	0	0	0.000000e+00	0
##	CSI065	3.782005e-05	0	0	0	0	0.000000e+00	0
##	CSI076	0.000000e+00	0	0	0	0	0.000000e+00	0
##		Otu10396	Otu10397	Otu10398	Otu10399	Otu10400	Otu10401	
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0

##	CSI022	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0.000000e+00	0
##		Otu10402	Otu10403	Otu10404	Otu10405	Otu10406	Otu10407 Otu10408
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		Otu10409	Otu10410	Otu10411	Otu10412	Otu10413	Otu10414 Otu10415
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		Otu10416	Otu10417	Otu10418	Otu10419	Otu10420	Otu10421
##	CSI001	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI012	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI022	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI055	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI065	0	0.000000e+00	3.782005e-05	0	0	0
##	CSI076	0	0.000000e+00	0.000000e+00	0	0	0
##		Otu10422	Otu10423	Otu10424	Otu10425	Otu10426	Otu10427 Otu10428
##	CSI001	0	0	0	0	0	0 0.000000e+00
##	CSI012	0	0	0	0	0	0 0.000000e+00
##	CSI022	0	0	0	0	0	0 0.000000e+00
##	CSI044	0	0	0	0	0	0 0.000000e+00
##	CSI055	0	0	0	0	0	0 0.000000e+00
##	CSI065	0	0	0	0	0	0 0.000000e+00
##	CSI076	0	0	0	0	0	0 0.000000e+00
##		Otu10429	Otu10430	Otu10431	Otu10432	Otu10433	Otu10434
##	CSI001	0	2.345326e-05	0	0	0	0
##	CSI012	0	1.724971e-05	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0
##		Otu10435	Otu10436	Otu10437	Otu10438	Otu10439	Otu10440
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI012	0.000000e+00	0	0	0	1.724971e-05	0
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI076	0.000000e+00	0	0	0	0.000000e+00	0
##		Otu10441	Otu10442	Otu10443	Otu10444	Otu10445	Otu10446

##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		Otu10447	Otu10448	Otu10449	Otu10450	Otu10451	Otu10452
##	CSI001	0.000000e+00	0.00000e+00	0	0	0	0
##	CSI012	1.724971e-05	0.00000e+00	0	0	0	0
##	CSI022	0.000000e+00	0.00000e+00	0	0	0	0
##	CSI044	0.000000e+00	1.97157e-05	0	0	0	0
##	CSI055	0.000000e+00	0.00000e+00	0	0	0	0
##	CSI065	0.000000e+00	0.00000e+00	0	0	0	0
##	CSI076	0.000000e+00	0.00000e+00	0	0	0	0
##		Otu10453	Otu10454	Otu10455	Otu10456	Otu10457	Otu10458
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		Otu10460	Otu10461	Otu10462	Otu10463	Otu10464	Otu10465
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		Otu10467	Otu10468	Otu10469	Otu10470	Otu10471	Otu10472
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		Otu10474	Otu10475	Otu10476	Otu10477	Otu10478	Otu10479
##	CSI001	0	0	0	0	0	0 0.000000e+00
##	CSI012	0	0	0	0	0	0 0.000000e+00
##	CSI022	0	0	0	0	0	0 0.000000e+00
##	CSI044	0	0	0	0	0	0 0.000000e+00
##	CSI055	0	0	0	0	0	0 0.000000e+00
##	CSI065	0	0	0	0	0	0 3.782005e-05
##	CSI076	0	0	0	0	0	0 0.000000e+00
##		Otu10481	Otu10482	Otu10483	Otu10484	Otu10485	Otu10486
##	CSI001	0	0	0	0	0 0.000000e+00	0
##	CSI012	0	0	0	0	0 3.449941e-05	0
##	CSI022	0	0	0	0	0 0.000000e+00	0
##	CSI044	0	0	0	0	0 0.000000e+00	0
##	CSI055	0	0	0	0	0 0.000000e+00	0
##	CSI065	0	0	0	0	0 0.000000e+00	0

```

## CSI076      0      0      0      0      0 0.000000e+00      0
##      0tu10488 0tu10489 0tu10490 0tu10491 0tu10492 0tu10493 0tu10494
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu10495 0tu10496 0tu10497 0tu10498 0tu10499 0tu10500 0tu10501
## CSI001 0.000000e+00      0      0      0      0      0      0
## CSI012 1.724971e-05      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 0.000000e+00      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0      0
##      0tu10502 0tu10503 0tu10504 0tu10505 0tu10506 0tu10507 0tu10508
## CSI001 0.000000e+00      0      0      0      0      0      0
## CSI012 0.000000e+00      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 0.000000e+00      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0      0
##      0tu10509 0tu10510 0tu10511 0tu10512 0tu10513 0tu10514 0tu10515
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu10516      0tu10517      0tu10518 0tu10519 0tu10520 0tu10521
## CSI001      0 2.345326e-05 0.00000e+00      0      0      0
## CSI012      0 1.724971e-05 0.00000e+00      0      0      0
## CSI022      0 0.000000e+00 0.00000e+00      0      0      0
## CSI044      0 0.000000e+00 0.00000e+00      0      0      0
## CSI055      0 0.000000e+00 6.45425e-05      0      0      0
## CSI065      0 0.000000e+00 0.00000e+00      0      0      0
## CSI076      0 0.000000e+00 0.00000e+00      0      0      0
##      0tu10522 0tu10523 0tu10524 0tu10525      0tu10526 0tu10527 0tu10528
## CSI001      0      0      0      0 0.000000e+00      0      0
## CSI012      0      0      0      0 0.000000e+00      0      0
## CSI022      0      0      0      0 0.000000e+00      0      0
## CSI044      0      0      0      0 0.000000e+00      0      0
## CSI055      0      0      0      0 0.000000e+00      0      0
## CSI065      0      0      0      0 0.000000e+00      0      0
## CSI076      0      0      0      0 0.000000e+00      0      0
##      0tu10529 0tu10530 0tu10531 0tu10532 0tu10533      0tu10534 0tu10535
## CSI001      0      0      0      0      0 0.000000e+00      0
## CSI012      0      0      0      0      0 0.000000e+00      0
## CSI022      0      0      0      0      0 0.000000e+00      0
## CSI044      0      0      0      0      0 0.000000e+00      0

```



##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##	Otu10536	Otu10537	Otu10538	Otu10539	Otu10540	Otu10541	Otu10542	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu10543	Otu10544	Otu10545	Otu10546	Otu10547	Otu10548		
##	CSI001	0	0	0	0.000000e+00	0	2.345326e-05	
##	CSI012	0	0	0	1.724971e-05	0	0.000000e+00	
##	CSI022	0	0	0	4.303111e-05	0	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI076	0	0	0	0.000000e+00	0	0.000000e+00	
##	Otu10549	Otu10550	Otu10551	Otu10552	Otu10553	Otu10554	Otu10555	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu10556	Otu10557	Otu10558	Otu10559	Otu10560	Otu10561	Otu10562	
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	2.890675e-05	0
##	Otu10563	Otu10564	Otu10565	Otu10566	Otu10567	Otu10568	Otu10569	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu10570	Otu10571	Otu10572	Otu10573	Otu10574	Otu10575		
##	CSI001	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI012	0	1.724971e-05	0	0	0	0.000000e+00	
##	CSI022	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI044	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI055	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI065	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI076	0	0.000000e+00	0	0	0	8.672024e-05	
##	Otu10576	Otu10577	Otu10578	Otu10579	Otu10580	Otu10581		
##	CSI001	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI012	0	0	0.000000e+00	0	0.000000e+00	3.449941e-05	

##	CSI022	0	0	2.151556e-05	0	2.151556e-05	0.000000e+00
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI076	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##		Otu10582	Otu10583	Otu10584	Otu10585	Otu10586	Otu10587
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI012	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI044	1.97157e-05	0.000000e+00	0	0	0	0.000000e+00
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##		Otu10588	Otu10589	Otu10590	Otu10591	Otu10592	Otu10593
##	CSI001	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	4.303111e-05
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0.000000e+00
##		Otu10595	Otu10596	Otu10597	Otu10598	Otu10599	Otu10600
##	CSI001	0	0.000000e+00	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0
##		Otu10601	Otu10602	Otu10603	Otu10604	Otu10605	Otu10606
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	2.151417e-05	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		Otu10608	Otu10609	Otu10610	Otu10611	Otu10612	Otu10613
##	CSI001	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI012	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI022	0	0	0	0.000000e+00	0	2.151556e-05
##	CSI044	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI055	0	0	0	6.45425e-05	0	0.000000e+00
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI076	0	0	0	0.000000e+00	0	0.000000e+00
##		Otu10614	Otu10615	Otu10616	Otu10617	Otu10618	Otu10619
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		Otu10621	Otu10622	Otu10623	Otu10624	Otu10625	Otu10626

##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		Otu10627	Otu10628	Otu10629	Otu10630	Otu10631	Otu10632
##	CSI001	2.345326e-05	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	2.151417e-05	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		Otu10634	Otu10635	Otu10636	Otu10637	Otu10638	Otu10639
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	5.174912e-05	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		Otu10641	Otu10642	Otu10643	Otu10644	Otu10645	Otu10646
##	CSI001	0 0.000000e+00	0	0	0	0	0
##	CSI012	0 0.000000e+00	0	0	0	0	0
##	CSI022	0 0.000000e+00	0	0	0	0	0
##	CSI044	0 0.000000e+00	0	0	0	0	0
##	CSI055	0 2.151417e-05	0	0	0	0	0
##	CSI065	0 0.000000e+00	0	0	0	0	0
##	CSI076	0 0.000000e+00	0	0	0	0	0
##		Otu10647	Otu10648	Otu10649	Otu10650	Otu10651	Otu10652
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	6.45425e-05	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		Otu10653	Otu10654	Otu10655	Otu10656	Otu10657	Otu10658
##	CSI001	2.345326e-05	0	0	0 0.000000e+00		0
##	CSI012	0.000000e+00	0	0	0 0.000000e+00		0
##	CSI022	0.000000e+00	0	0	0 0.000000e+00		0
##	CSI044	0.000000e+00	0	0	0 0.000000e+00		0
##	CSI055	0.000000e+00	0	0	0 0.000000e+00		0
##	CSI065	0.000000e+00	0	0	0 0.000000e+00		0
##	CSI076	0.000000e+00	0	0	0 5.781349e-05		0
##		Otu10659	Otu10660	Otu10661	Otu10662	Otu10663	Otu10664
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##		Otu10666	Otu10667	Otu10668	Otu10669	Otu10670	Otu10671	Otu10672
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu10673	Otu10674	Otu10675	Otu10676	Otu10677	Otu10678	Otu10679
##	CSI001	0	0	0	0	0	2.345326e-05	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		Otu10680	Otu10681	Otu10682	Otu10683	Otu10684	Otu10685	Otu10686
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		Otu10687	Otu10688	Otu10689	Otu10690	Otu10691	Otu10692	
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0	0	0	1.724971e-05	0	
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI076	0.000000e+00	0	0	0	0.000000e+00	0	
##		Otu10693	Otu10694	Otu10695	Otu10696	Otu10697	Otu10698	Otu10699
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu10700	Otu10701	Otu10702	Otu10703	Otu10704	Otu10705	
##	CSI001	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI012	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI022	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0	0	0.000000e+00	0	0.000000e+00	0	
##		Otu10706	Otu10707	Otu10708	Otu10709	Otu10710	Otu10711	Otu10712
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0

##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu10713	Otu10714	Otu10715	Otu10716	Otu10717	Otu10718	Otu10719
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		Otu10720	Otu10721	Otu10722	Otu10723	Otu10724	Otu10725	Otu10726
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu10727	Otu10728	Otu10729	Otu10730	Otu10731	Otu10732	
##	CSI001	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI012	0	0	0	0.000000e+00	0	1.724971e-05	
##	CSI022	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI076	0	0	0	0.000000e+00	0	0.000000e+00	
##		Otu10733	Otu10734	Otu10735	Otu10736	Otu10737	Otu10738	Otu10739
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	1.97157e-05	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		Otu10740	Otu10741	Otu10742	Otu10743	Otu10744	Otu10745	
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI012	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0	
##		Otu10746	Otu10747	Otu10748	Otu10749	Otu10750	Otu10751	Otu10752
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu10753	Otu10754	Otu10755	Otu10756	Otu10757	Otu10758	Otu10759
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu10760	Otu10761	Otu10762	Otu10763	Otu10764	Otu10765	Otu10766	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu10767	Otu10768	Otu10769	Otu10770	Otu10771	Otu10772	Otu10773	
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##	Otu10774	Otu10775	Otu10776	Otu10777	Otu10778	Otu10779	Otu10780	
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	3.449941e-05	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##	Otu10781	Otu10782	Otu10783	Otu10784	Otu10785	Otu10786		
##	CSI001	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI012	0	0	3.449941e-05	0	0.000000e+00	0	
##	CSI022	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0	0	0.000000e+00	0	0.000000e+00	0	
##	Otu10787	Otu10788	Otu10789	Otu10790	Otu10791	Otu10792	Otu10793	
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	2.151556e-05	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##	Otu10794	Otu10795	Otu10796	Otu10797	Otu10798	Otu10799	Otu10800	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu10801	Otu10802	Otu10803	Otu10804	Otu10805	Otu10806	Otu10807	

##	CSI001	0	0	0 0.000000e+00	0	0	0
##	CSI012	0	0	0 0.000000e+00	0	0	0
##	CSI022	0	0	0 0.000000e+00	0	0	0
##	CSI044	0	0	0 0.000000e+00	0	0	0
##	CSI055	0	0	0 0.000000e+00	0	0	0
##	CSI065	0	0	0 0.000000e+00	0	0	0
##	CSI076	0	0	0 0.000000e+00	0	0	0
##		0tu10808	0tu10809	0tu10810	0tu10811	0tu10812	0tu10813
##	CSI001	0	0	0 0.000000e+00	0	0	0
##	CSI012	0	0	0 0.000000e+00	0	0	0
##	CSI022	0	0	0 0.000000e+00	0	0	0
##	CSI044	0	0	0 0.000000e+00	0	0	0
##	CSI055	0	0	0 0.000000e+00	0	0	0
##	CSI065	0	0	3.782005e-05	0	0	0
##	CSI076	0	0	0 0.000000e+00	0	0	0
##		0tu10815	0tu10816	0tu10817	0tu10818	0tu10819	0tu10820
##	CSI001	0	0	0	0	0 0.000000e+00	
##	CSI012	0	0	0	0	0 0.000000e+00	
##	CSI022	0	0	0	0	4.303111e-05	
##	CSI044	0	0	0	0	0 0.000000e+00	
##	CSI055	0	0	0	0	0 0.000000e+00	
##	CSI065	0	0	0	0	0 0.000000e+00	
##	CSI076	0	0	0	0	0 0.000000e+00	
##		0tu10821	0tu10822	0tu10823	0tu10824	0tu10825	0tu10826
##	CSI001	0.000000e+00	0	0 4.690652e-05	0	0	
##	CSI012	3.449941e-05	0	0 0.000000e+00	0	0	
##	CSI022	0.000000e+00	0	0 0.000000e+00	0	0	
##	CSI044	0.000000e+00	0	0 0.000000e+00	0	0	
##	CSI055	0.000000e+00	0	0 0.000000e+00	0	0	
##	CSI065	0.000000e+00	0	0 0.000000e+00	0	0	
##	CSI076	0.000000e+00	0	0 0.000000e+00	0	0	
##		0tu10827	0tu10828	0tu10829	0tu10830	0tu10831	0tu10832
##	CSI001	0	0	0 0.000000e+00	0	0	0
##	CSI012	0	0	3.449941e-05	0	0	0
##	CSI022	0	0	0 0.000000e+00	0	0	0
##	CSI044	0	0	0 0.000000e+00	0	0	0
##	CSI055	0	0	0 0.000000e+00	0	0	0
##	CSI065	0	0	0 0.000000e+00	0	0	0
##	CSI076	0	0	0 0.000000e+00	0	0	0
##		0tu10834	0tu10835	0tu10836	0tu10837	0tu10838	0tu10839
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu10841	0tu10842	0tu10843	0tu10844	0tu10845	0tu10846
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##		0tu10848	0tu10849	0tu10850	0tu10851	0tu10852	0tu10853	0tu10854
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu10855	0tu10856	0tu10857	0tu10858	0tu10859	0tu10860	
##	CSI001	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI012	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI022	4.303111e-05	0	0	0.000000e+00	0	0	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI055	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI076	0.000000e+00	0	0	5.781349e-05	0	0	
##		0tu10861	0tu10862	0tu10863	0tu10864	0tu10865	0tu10866	
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI012	0.000000e+00	3.449941e-05	0	0	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI055	4.302833e-05	0.000000e+00	0	0	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0	
##		0tu10867	0tu10868	0tu10869	0tu10870	0tu10871	0tu10872	0tu10873
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu10874	0tu10875	0tu10876	0tu10877	0tu10878	0tu10879	0tu10880
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	3.449941e-05	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu10881	0tu10882	0tu10883	0tu10884	0tu10885	0tu10886	0tu10887
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu10888	0tu10889	0tu10890	0tu10891	0tu10892	0tu10893	0tu10894
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0



##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu10895	0tu10896	0tu10897	0tu10898	0tu10899	0tu10900	
##	CSI001	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	CSI012	0.000000e+00	1.724971e-05	0.000000e+00	0	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	CSI055	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	CSI076	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##		0tu10901	0tu10902	0tu10903	0tu10904	0tu10905	0tu10906	0tu10907
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu10908	0tu10909	0tu10910	0tu10911	0tu10912	0tu10913	0tu10914
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu10915	0tu10916	0tu10917	0tu10918	0tu10919	0tu10920	0tu10921
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	4.302833e-05
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu10922	0tu10923	0tu10924	0tu10925	0tu10926	0tu10927	0tu10928
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	3.94314e-05	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu10929	0tu10930	0tu10931	0tu10932	0tu10933	0tu10934	
##	CSI001	0.000000e+00	0	0	0	0	0	
##	CSI012	0.000000e+00	0	0	0	0	0	
##	CSI022	0.000000e+00	0	0	0	0	0	
##	CSI044	0.000000e+00	0	0	0	0	0	
##	CSI055	0.000000e+00	0	0	0	0	0	
##	CSI065	0.000000e+00	0	0	0	0	0	
##	CSI076	0.000000e+00	0	0	0	0	0	
##		0tu10935	0tu10936	0tu10937	0tu10938	0tu10939	0tu10940	0tu10941
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0

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## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 4.302833e-05      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0      0
##      0tu10942 0tu10943 0tu10944 0tu10945 0tu10946 0tu10947 0tu10948
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu10949 0tu10950 0tu10951 0tu10952 0tu10953 0tu10954 0tu10955
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu10956 0tu10957 0tu10958 0tu10959 0tu10960      0tu10961 0tu10962
## CSI001      0      0      0      0      0 0.000000e+00      0
## CSI012      0      0      0      0      0 3.449941e-05      0
## CSI022      0      0      0      0      0 0.000000e+00      0
## CSI044      0      0      0      0      0 0.000000e+00      0
## CSI055      0      0      0      0      0 0.000000e+00      0
## CSI065      0      0      0      0      0 0.000000e+00      0
## CSI076      0      0      0      0      0 0.000000e+00      0
##      0tu10963 0tu10964 0tu10965      0tu10966 0tu10967 0tu10968 0tu10969
## CSI001      0      0      0 0.000000e+00      0      0      0
## CSI012      0      0      0 0.000000e+00      0      0      0
## CSI022      0      0      0 0.000000e+00      0      0      0
## CSI044      0      0      0 0.000000e+00      0      0      0
## CSI055      0      0      0 4.302833e-05      0      0      0
## CSI065      0      0      0 0.000000e+00      0      0      0
## CSI076      0      0      0 0.000000e+00      0      0      0
##      0tu10970 0tu10971 0tu10972 0tu10973 0tu10974 0tu10975 0tu10976
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu10977      0tu10978 0tu10979 0tu10980 0tu10981 0tu10982 0tu10983
## CSI001      0 0.000000e+00      0      0      0      0      0
## CSI012      0 3.449941e-05      0      0      0      0      0
## CSI022      0 0.000000e+00      0      0      0      0      0
## CSI044      0 0.000000e+00      0      0      0      0      0
## CSI055      0 0.000000e+00      0      0      0      0      0
## CSI065      0 0.000000e+00      0      0      0      0      0
## CSI076      0 0.000000e+00      0      0      0      0      0
##      0tu10984 0tu10985 0tu10986 0tu10987 0tu10988 0tu10989 0tu10990

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##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu10991	Otu10992	Otu10993	Otu10994	Otu10995	Otu10996		
##	CSI001	0 0.000000e+00	0	0	0	0 0.000000e+00		
##	CSI012	0 3.449941e-05	0	0	0	0 0.000000e+00		
##	CSI022	0 0.000000e+00	0	0	0	0 0.000000e+00		
##	CSI044	0 0.000000e+00	0	0	0	0 0.000000e+00		
##	CSI055	0 0.000000e+00	0	0	0	0 0.000000e+00		
##	CSI065	0 0.000000e+00	0	0	0	0 0.000000e+00		
##	CSI076	0 0.000000e+00	0	0	0	0 0.000000e+00		
##	Otu10997	Otu10998	Otu10999	Otu11000	Otu11001	Otu11002	Otu11003	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu11004	Otu11005	Otu11006	Otu11007	Otu11008	Otu11009	Otu11010	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu11011	Otu11012	Otu11013	Otu11014	Otu11015	Otu11016	Otu11017	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu11018	Otu11019	Otu11020	Otu11021	Otu11022	Otu11023		
##	CSI001	4.690652e-05	0 0.000000e+00	0	0	0 0.000000e+00		
##	CSI012	0.000000e+00	0 0.000000e+00	0	0	0 3.449941e-05		
##	CSI022	0.000000e+00	0 0.000000e+00	0	0	0 0.000000e+00		
##	CSI044	0.000000e+00	0 0.000000e+00	0	0	0 0.000000e+00		
##	CSI055	0.000000e+00	0 4.302833e-05	0	0	0 0.000000e+00		
##	CSI065	0.000000e+00	0 0.000000e+00	0	0	0 0.000000e+00		
##	CSI076	0.000000e+00	0 0.000000e+00	0	0	0 0.000000e+00		
##	Otu11024	Otu11025	Otu11026	Otu11027	Otu11028	Otu11029	Otu11030	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##	Otu11031	Otu11032	Otu11033	Otu11034	Otu11035	Otu11036	Otu11037	
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	2.151556e-05	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##	Otu11038	Otu11039	Otu11040	Otu11041	Otu11042	Otu11043	Otu11044	
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##	Otu11045	Otu11046	Otu11047	Otu11048	Otu11049	Otu11050	Otu11051	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu11052	Otu11053	Otu11054	Otu11055	Otu11056	Otu11057	Otu11058	
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##	Otu11059	Otu11060	Otu11061	Otu11062	Otu11063	Otu11064	Otu11065	
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	4.302833e-05	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##	Otu11066	Otu11067	Otu11068	Otu11069	Otu11070	Otu11071	Otu11072	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu11073	Otu11074	Otu11075	Otu11076	Otu11077	Otu11078	Otu11079	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0

##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11080	Otu11081	Otu11082	Otu11083	Otu11084	Otu11085	Otu11086
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		Otu11087	Otu11088	Otu11089	Otu11090	Otu11091	Otu11092	
##	CSI001	0	0	0.000000e+00	0	0	0	
##	CSI012	0	0	0.000000e+00	0	0	0	
##	CSI022	0	0	0.000000e+00	0	0	0	
##	CSI044	0	0	0.000000e+00	0	0	0	
##	CSI055	0	0	0.000000e+00	0	0	0	
##	CSI065	0	0	0.000000e+00	0	0	0	
##	CSI076	0	0	0.000000e+00	0	0	0	
##		Otu11093	Otu11094	Otu11095	Otu11096	Otu11097	Otu11098	
##	CSI001	4.690652e-05	0	0	0.000000e+00	0	0	
##	CSI012	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI022	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI055	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0	
##		Otu11099	Otu11100	Otu11101	Otu11102	Otu11103	Otu11104	Otu11105
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11106	Otu11107	Otu11108	Otu11109	Otu11110	Otu11111	Otu11112
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11113	Otu11114	Otu11115	Otu11116	Otu11117	Otu11118	Otu11119
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11120	Otu11121	Otu11122	Otu11123	Otu11124	Otu11125	Otu11126
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11127	Otu11128	Otu11129	Otu11130	Otu11131	Otu11132	Otu11133
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11134	Otu11135	Otu11136	Otu11137	Otu11138	Otu11139	Otu11140
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	3.449941e-05	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		Otu11141	Otu11142	Otu11143	Otu11144	Otu11145	Otu11146	
##	CSI001	0	0	0	0.000000e+00	4.690652e-05	0	
##	CSI012	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI022	0	0	0	4.303111e-05	0.000000e+00	0	
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI055	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI076	0	0	0	0.000000e+00	0.000000e+00	0	
##		Otu11147	Otu11148	Otu11149	Otu11150	Otu11151	Otu11152	
##	CSI001	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI012	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI022	4.303111e-05	0	0	0	0	0.000000e+00	
##	CSI044	0.000000e+00	0	0	0	0	3.94314e-05	
##	CSI055	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI076	0.000000e+00	0	0	0	0	0.000000e+00	
##		Otu11153	Otu11154	Otu11155	Otu11156	Otu11157	Otu11158	Otu11159
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	3.94314e-05	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		Otu11160	Otu11161	Otu11162	Otu11163	Otu11164	Otu11165	Otu11166
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	3.449941e-05	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		Otu11167	Otu11168	Otu11169	Otu11170	Otu11171	Otu11172	Otu11173

##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11174	Otu11175	Otu11176	Otu11177	Otu11178	Otu11179	Otu11180
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	3.449941e-05	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		Otu11181	Otu11182	Otu11183	Otu11184	Otu11185	Otu11186	Otu11187
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		Otu11188	Otu11189	Otu11190	Otu11191	Otu11192	Otu11193	Otu11194
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	4.303111e-05	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		Otu11195	Otu11196	Otu11197	Otu11198	Otu11199	Otu11200	Otu11201
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11202	Otu11203	Otu11204	Otu11205	Otu11206	Otu11207	Otu11208
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		Otu11209	Otu11210	Otu11211	Otu11212	Otu11213	Otu11214	Otu11215
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0

## CSI076	0	0	0	0	0	0	0
##	Otu11216	Otu11217	Otu11218	Otu11219	Otu11220	Otu11221	Otu11222
## CSI001	0.000000e+00	0	0	0	0	0	0
## CSI012	0.000000e+00	0	0	0	0	0	0
## CSI022	0.000000e+00	0	0	0	0	0	0
## CSI044	0.000000e+00	0	0	0	0	0	0
## CSI055	2.151417e-05	0	0	0	0	0	0
## CSI065	0.000000e+00	0	0	0	0	0	0
## CSI076	0.000000e+00	0	0	0	0	0	0
##	Otu11223	Otu11224	Otu11225	Otu11226	Otu11227	Otu11228	Otu11229
## CSI001	0	0	0	0	0	0	0
## CSI012	0	0	0	0	0	0	0
## CSI022	0	0	0	0	0	0	0
## CSI044	0	0	0	0	0	0	0
## CSI055	0	0	0	0	0	0	0
## CSI065	0	0	0	0	0	0	0
## CSI076	0	0	0	0	0	0	0
##	Otu11230	Otu11231	Otu11232	Otu11233	Otu11234	Otu11235	Otu11236
## CSI001	0	0	0	0	0	0	0
## CSI012	0	0	0	0	0	0	0
## CSI022	0	0	0	0	0	0	0
## CSI044	0	0	0	0	0	0	0
## CSI055	0	0	0	0	0	0	0
## CSI065	0	0	0	0	0	0	0
## CSI076	0	0	0	0	0	0	0
##	Otu11237	Otu11238	Otu11239	Otu11240	Otu11241	Otu11242	
## CSI001	0 0.000000e+00	0	0	0	0	0	
## CSI012	0 0.000000e+00	0	0	0	0	0	
## CSI022	0 0.000000e+00	0	0	0	0	0	
## CSI044	0 0.000000e+00	0	0	0	0	0	
## CSI055	0 0.000000e+00	0	0	0	0	0	
## CSI065	0 0.000000e+00	0	0	0	0	0	
## CSI076	0 0.000000e+00	0	0	0	0	0	
##	Otu11243	Otu11244	Otu11245	Otu11246	Otu11247	Otu11248	
## CSI001	0.000000e+00	0	0	0 0.000000e+00		0	
## CSI012	0.000000e+00	0	0	0 0.000000e+00		0	
## CSI022	0.000000e+00	0	0	0 4.303111e-05		0	
## CSI044	0.000000e+00	0	0	0 0.000000e+00		0	
## CSI055	0.000000e+00	0	0	0 0.000000e+00		0	
## CSI065	0.000000e+00	0	0	0 0.000000e+00		0	
## CSI076	0.000000e+00	0	0	0 0.000000e+00		0	
##	Otu11249	Otu11250	Otu11251	Otu11252	Otu11253	Otu11254	Otu11255
## CSI001	0	0	0 2.345326e-05		0	0	0
## CSI012	0	0	0 0.000000e+00		0	0	0
## CSI022	0	0	0 0.000000e+00		0	0	0
## CSI044	0	0	0 0.000000e+00		0	0	0
## CSI055	0	0	0 0.000000e+00		0	0	0
## CSI065	0	0	0 0.000000e+00		0	0	0
## CSI076	0	0	0 0.000000e+00		0	0	0
##	Otu11256	Otu11257	Otu11258	Otu11259	Otu11260	Otu11261	Otu11262
## CSI001	0	0	0	0	0	0	0
## CSI012	0	0	0	0	0	0	0
## CSI022	0	0	0	0	0	0	0
## CSI044	0	0	0	0	0	0	0



##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu11263	Otu11264	Otu11265	Otu11266	Otu11267	Otu11268		
##	CSI001	0	4.690652e-05	0	2.345326e-05	0	0	
##	CSI012	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI022	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI044	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI055	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI065	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI076	0	0.000000e+00	0	0.000000e+00	0	0	
##	Otu11269	Otu11270	Otu11271	Otu11272	Otu11273	Otu11274	Otu11275	
##	CSI001	0	2.345326e-05	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##	Otu11276	Otu11277	Otu11278	Otu11279	Otu11280	Otu11281	Otu11282	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu11283	Otu11284	Otu11285	Otu11286	Otu11287	Otu11288	Otu11289	
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##	Otu11290	Otu11291	Otu11292	Otu11293	Otu11294	Otu11295	Otu11296	
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	4.302833e-05	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##	Otu11297	Otu11298	Otu11299	Otu11300	Otu11301	Otu11302		
##	CSI001	0	0	4.690652e-05	0	0.000000e+00	0	
##	CSI012	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI022	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0	0	0.000000e+00	0	0.000000e+00	0	
##	Otu11303	Otu11304	Otu11305	Otu11306	Otu11307	Otu11308	Otu11309	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11310	Otu11311	Otu11312	Otu11313	Otu11314	Otu11315	
##	CSI001	0.000000e+00	0	0	0	0	0	
##	CSI012	0.000000e+00	0	0	0	0	0	
##	CSI022	0.000000e+00	0	0	0	0	0	
##	CSI044	0.000000e+00	0	0	0	0	0	
##	CSI055	0.000000e+00	0	0	0	0	0	
##	CSI065	0.000000e+00	0	0	0	0	0	
##	CSI076	0.000000e+00	0	0	0	0	0	
##		Otu11316	Otu11317	Otu11318	Otu11319	Otu11320	Otu11321	Otu11322
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	1.724971e-05	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		Otu11323	Otu11324	Otu11325	Otu11326	Otu11327	Otu11328	Otu11329
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		Otu11330	Otu11331	Otu11332	Otu11333	Otu11334	Otu11335	Otu11336
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11337	Otu11338	Otu11339	Otu11340	Otu11341	Otu11342	Otu11343
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11344	Otu11345	Otu11346	Otu11347	Otu11348	Otu11349	Otu11350
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11351	Otu11352	Otu11353	Otu11354	Otu11355	Otu11356	Otu11357

##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11358	Otu11359	Otu11360	Otu11361	Otu11362		Otu11363
##	CSI001	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI012	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI022	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI044	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI055	2.151417e-05	0	0	0	0	0.000000e+00	
##	CSI065	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI076	0.000000e+00	0	0	0	0	0.000000e+00	
##		Otu11364	Otu11365	Otu11366	Otu11367	Otu11368	Otu11369	Otu11370
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11371	Otu11372	Otu11373	Otu11374	Otu11375	Otu11376	Otu11377
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11378	Otu11379	Otu11380	Otu11381	Otu11382	Otu11383	Otu11384
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11385	Otu11386	Otu11387	Otu11388	Otu11389	Otu11390	
##	CSI001	0	0	0	0.000000e+00	0.000000e+00		0
##	CSI012	0	0	0	3.449941e-05	0.000000e+00		0
##	CSI022	0	0	0	0.000000e+00	4.303111e-05		0
##	CSI044	0	0	0	0.000000e+00	0.000000e+00		0
##	CSI055	0	0	0	0.000000e+00	0.000000e+00		0
##	CSI065	0	0	0	0.000000e+00	0.000000e+00		0
##	CSI076	0	0	0	0.000000e+00	0.000000e+00		0
##		Otu11391	Otu11392	Otu11393	Otu11394	Otu11395	Otu11396	Otu11397
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##		Otu11398	Otu11399	Otu11400	Otu11401	Otu11402	Otu11403	Otu11404
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11405	Otu11406	Otu11407	Otu11408	Otu11409	Otu11410	Otu11411
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11412	Otu11413	Otu11414	Otu11415	Otu11416	Otu11417	Otu11418
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		Otu11419	Otu11420	Otu11421	Otu11422	Otu11423	Otu11424	Otu11425
##	CSI001	0	0	0	0	0.00000e+00	0	0
##	CSI012	0	0	0	0	0.00000e+00	0	0
##	CSI022	0	0	0	0	0.00000e+00	0	0
##	CSI044	0	0	0	0	3.94314e-05	0	0
##	CSI055	0	0	0	0	0.00000e+00	0	0
##	CSI065	0	0	0	0	0.00000e+00	0	0
##	CSI076	0	0	0	0	0.00000e+00	0	0
##		Otu11426	Otu11427	Otu11428	Otu11429	Otu11430	Otu11431	Otu11432
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11433	Otu11434	Otu11435	Otu11436	Otu11437	Otu11438	Otu11439
##	CSI001	0	0	0	0	0.00000e+00	0	0
##	CSI012	0	0	0	0	0.00000e+00	0	0
##	CSI022	0	0	0	0	0.00000e+00	0	0
##	CSI044	0	0	0	0	3.94314e-05	0	0
##	CSI055	0	0	0	0	0.00000e+00	0	0
##	CSI065	0	0	0	0	0.00000e+00	0	0
##	CSI076	0	0	0	0	0.00000e+00	0	0
##		Otu11440	Otu11441	Otu11442	Otu11443	Otu11444	Otu11445	Otu11446
##	CSI001	0	0	0	0	2.345326e-05	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0

##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		Otu11447	Otu11448	Otu11449	Otu11450	Otu11451	Otu11452	Otu11453
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11454	Otu11455	Otu11456	Otu11457	Otu11458	Otu11459	Otu11460
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	4.302833e-05	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		Otu11461	Otu11462	Otu11463	Otu11464	Otu11465	Otu11466	Otu11467
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11468	Otu11469	Otu11470	Otu11471	Otu11472	Otu11473	Otu11474
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	4.302833e-05
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		Otu11475	Otu11476	Otu11477	Otu11478	Otu11479	Otu11480	Otu11481
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11482	Otu11483	Otu11484	Otu11485	Otu11486	Otu11487	Otu11488
##	CSI001	0	0	0	0	0	0	2.345326e-05
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		Otu11489	Otu11490	Otu11491	Otu11492	Otu11493	Otu11494	
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI012	0.000000e+00	0.000000e+00	0	0	0	0	

##	CSI022	2.151556e-05	4.303111e-05	0	0	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0	
##		Otu11495	Otu11496	Otu11497	Otu11498	Otu11499	Otu11500	
##	CSI001	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI012	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI022	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI044	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI055	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI065	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI076	0	0	0.000000e+00	0	0	0.000000e+00	
##		Otu11501	Otu11502	Otu11503	Otu11504	Otu11505	Otu11506	Otu11507
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11508	Otu11509	Otu11510	Otu11511	Otu11512	Otu11513	Otu11514
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11515	Otu11516	Otu11517	Otu11518	Otu11519	Otu11520	Otu11521
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11522	Otu11523	Otu11524	Otu11525	Otu11526	Otu11527	Otu11528
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	1.97157e-05	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		Otu11529	Otu11530	Otu11531	Otu11532	Otu11533	Otu11534	Otu11535
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11536	Otu11537	Otu11538	Otu11539	Otu11540	Otu11541	Otu11542

##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11543	Otu11544	Otu11545	Otu11546	Otu11547	Otu11548	Otu11549
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	1.724971e-05	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		Otu11550	Otu11551	Otu11552	Otu11553	Otu11554	Otu11555	Otu11556
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11557	Otu11558	Otu11559	Otu11560	Otu11561	Otu11562	Otu11563
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11564	Otu11565	Otu11566	Otu11567	Otu11568	Otu11569	Otu11570
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		Otu11571	Otu11572	Otu11573	Otu11574	Otu11575	Otu11576	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI022	4.303111e-05	0	0.000000e+00	0	0	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0	
##		Otu11577	Otu11578	Otu11579	Otu11580	Otu11581	Otu11582	Otu11583
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##		Otu11584	Otu11585	Otu11586	Otu11587	Otu11588	Otu11589	Otu11590
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		Otu11591	Otu11592	Otu11593	Otu11594	Otu11595	Otu11596	
##	CSI001	0	0.000000e+00	0	0.000000e+00	0.000000e+00		0
##	CSI012	0	3.449941e-05	0	0.000000e+00	0.000000e+00		0
##	CSI022	0	0.000000e+00	0	0.000000e+00	0.000000e+00		0
##	CSI044	0	0.000000e+00	0	0.000000e+00	0.000000e+00		0
##	CSI055	0	0.000000e+00	0	2.151417e-05	4.302833e-05		0
##	CSI065	0	0.000000e+00	0	0.000000e+00	0.000000e+00		0
##	CSI076	0	0.000000e+00	0	0.000000e+00	0.000000e+00		0
##		Otu11597	Otu11598	Otu11599	Otu11600	Otu11601	Otu11602	Otu11603
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		Otu11604	Otu11605	Otu11606	Otu11607	Otu11608	Otu11609	Otu11610
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		Otu11611	Otu11612	Otu11613	Otu11614	Otu11615	Otu11616	Otu11617
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	3.449941e-05
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		Otu11618	Otu11619	Otu11620	Otu11621	Otu11622	Otu11623	Otu11624
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	3.449941e-05
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		Otu11625	Otu11626	Otu11627	Otu11628	Otu11629	Otu11630	
##	CSI001	0.000000e+00	0	0	0	0	0	
##	CSI012	0.000000e+00	0	0	0	0	0	
##	CSI022	0.000000e+00	0	0	0	0	0	
##	CSI044	0.000000e+00	0	0	0	0	0	



##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	2.890675e-05	0	0	0	0	0
##		Otu11631	Otu11632	Otu11633	Otu11634	Otu11635	Otu11636
##	CSI001	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI012	3.449941e-05	0	0	1.724971e-05	0	0
##	CSI022	0.000000e+00	0	0	2.151556e-05	0	0
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI055	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0
##		Otu11637	Otu11638	Otu11639	Otu11640	Otu11641	Otu11642
##	CSI001	0	0	0	2.345326e-05	0	0
##	CSI012	0	0	0	1.724971e-05	0	0
##	CSI022	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0.000000e+00	0	0
##		Otu11644	Otu11645	Otu11646	Otu11647	Otu11648	Otu11649
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		Otu11651	Otu11652	Otu11653	Otu11654	Otu11655	Otu11656
##	CSI001	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	3.449941e-05	0	0
##	CSI022	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0.000000e+00	0	0
##		Otu11658	Otu11659	Otu11660	Otu11661	Otu11662	Otu11663
##	CSI001	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	4.303111e-05	0
##	CSI044	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0.000000e+00	0
##		Otu11665	Otu11666	Otu11667	Otu11668	Otu11669	Otu11670
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		Otu11672	Otu11673	Otu11674	Otu11675	Otu11676	Otu11677
##	CSI001	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0.000000e+00	0

##	CSI022	0	0	0	0	0.00000e+00	0	0
##	CSI044	0	0	0	0	0.00000e+00	0	0
##	CSI055	0	0	0	0	0.00000e+00	0	0
##	CSI065	0	0	0	0	7.56401e-05	0	0
##	CSI076	0	0	0	0	0.00000e+00	0	0
##	Otu11679	Otu11680	Otu11681	Otu11682	Otu11683	Otu11684	Otu11685	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu11686	Otu11687	Otu11688	Otu11689	Otu11690	Otu11691		
##	CSI001	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI012	0	0	0	0.000000e+00	1.724971e-05	0	
##	CSI022	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI044	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI055	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI065	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI076	0	0	0	0.000000e+00	0.000000e+00	0	
##	Otu11692	Otu11693	Otu11694	Otu11695	Otu11696	Otu11697	Otu11698	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu11699	Otu11700	Otu11701	Otu11702	Otu11703	Otu11704	Otu11705	
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	2.151556e-05	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##	Otu11706	Otu11707	Otu11708	Otu11709	Otu11710	Otu11711	Otu11712	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu11713	Otu11714	Otu11715	Otu11716	Otu11717	Otu11718	Otu11719	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu11720	Otu11721	Otu11722	Otu11723	Otu11724	Otu11725	Otu11726	

##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		Otu11727	Otu11728	Otu11729	Otu11730	Otu11731	Otu11732	Otu11733
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11734	Otu11735	Otu11736	Otu11737	Otu11738	Otu11739	Otu11740
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	2.151417e-05	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		Otu11741	Otu11742	Otu11743	Otu11744	Otu11745	Otu11746	Otu11747
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11748	Otu11749	Otu11750	Otu11751	Otu11752	Otu11753	Otu11754
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	2.151417e-05	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		Otu11755	Otu11756	Otu11757	Otu11758	Otu11759	Otu11760	Otu11761
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11762	Otu11763	Otu11764	Otu11765	Otu11766	Otu11767	Otu11768
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##		Otu11769	Otu11770	Otu11771	Otu11772	Otu11773	Otu11774	Otu11775
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11776	Otu11777	Otu11778	Otu11779	Otu11780	Otu11781	Otu11782
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11783	Otu11784	Otu11785	Otu11786	Otu11787	Otu11788	Otu11789
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		Otu11790	Otu11791	Otu11792	Otu11793	Otu11794	Otu11795	Otu11796
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		Otu11797	Otu11798	Otu11799	Otu11800	Otu11801	Otu11802	Otu11803
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11804	Otu11805	Otu11806	Otu11807	Otu11808	Otu11809	Otu11810
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11811	Otu11812	Otu11813	Otu11814	Otu11815	Otu11816	Otu11817
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0

##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		Otu11818	Otu11819	Otu11820	Otu11821	Otu11822	Otu11823	Otu11824
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11825	Otu11826	Otu11827	Otu11828	Otu11829	Otu11830	Otu11831
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11832	Otu11833	Otu11834	Otu11835	Otu11836	Otu11837	Otu11838
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11839	Otu11840	Otu11841	Otu11842	Otu11843	Otu11844	Otu11845
##	CSI001	0	0	0	0	0	0.00000e+00	0
##	CSI012	0	0	0	0	0	0.00000e+00	0
##	CSI022	0	0	0	0	0	0.00000e+00	0
##	CSI044	0	0	0	0	0	0.00000e+00	0
##	CSI055	0	0	0	0	0	0.00000e+00	0
##	CSI065	0	0	0	0	0	7.56401e-05	0
##	CSI076	0	0	0	0	0	0.00000e+00	0
##		Otu11846	Otu11847	Otu11848	Otu11849	Otu11850	Otu11851	Otu11852
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11853	Otu11854	Otu11855	Otu11856	Otu11857	Otu11858	Otu11859
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11860	Otu11861	Otu11862	Otu11863	Otu11864	Otu11865	Otu11866
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu11867	Otu11868	Otu11869	Otu11870	Otu11871	Otu11872	Otu11873	
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	4.303111e-05	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##	Otu11874	Otu11875	Otu11876	Otu11877	Otu11878	Otu11879	Otu11880	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu11881	Otu11882	Otu11883	Otu11884	Otu11885	Otu11886		
##	CSI001	0	0	0	0.000000e+00	0	0	
##	CSI012	0	0	0	0.000000e+00	0	0	
##	CSI022	0	0	0	0.000000e+00	0	0	
##	CSI044	0	0	0	0.000000e+00	0	0	
##	CSI055	0	0	0	4.302833e-05	0	0	
##	CSI065	0	0	0	0.000000e+00	0	0	
##	CSI076	0	0	0	0.000000e+00	0	0	
##	Otu11887	Otu11888	Otu11889	Otu11890	Otu11891	Otu11892	Otu11893	
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	4.303111e-05	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##	Otu11894	Otu11895	Otu11896	Otu11897	Otu11898	Otu11899	Otu11900	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu11901	Otu11902	Otu11903	Otu11904	Otu11905	Otu11906	Otu11907	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu11908	Otu11909	Otu11910	Otu11911	Otu11912	Otu11913	Otu11914	

##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11915	Otu11916	Otu11917	Otu11918	Otu11919	Otu11920	Otu11921
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11922	Otu11923	Otu11924	Otu11925	Otu11926	Otu11927	Otu11928
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11929	Otu11930	Otu11931	Otu11932	Otu11933	Otu11934	Otu11935
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11936	Otu11937	Otu11938	Otu11939	Otu11940	Otu11941	Otu11942
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		Otu11943	Otu11944	Otu11945	Otu11946	Otu11947	Otu11948	Otu11949
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	4.302833e-05	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		Otu11950	Otu11951	Otu11952	Otu11953	Otu11954	Otu11955	Otu11956
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##		Otu11957	Otu11958	Otu11959	Otu11960	Otu11961	Otu11962	Otu11963
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		Otu11964	Otu11965	Otu11966	Otu11967	Otu11968	Otu11969	
##	CSI001	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI012	0	0.000000e+00	3.449941e-05	0	0.000000e+00	0	
##	CSI022	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI065	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##		Otu11970	Otu11971	Otu11972	Otu11973	Otu11974	Otu11975	Otu11976
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11977	Otu11978	Otu11979	Otu11980	Otu11981	Otu11982	Otu11983
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		Otu11984	Otu11985	Otu11986	Otu11987	Otu11988	Otu11989	Otu11990
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu11991	Otu11992	Otu11993	Otu11994	Otu11995	Otu11996	Otu11997
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	4.303111e-05	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		Otu11998	Otu11999	Otu12000	Otu12001	Otu12002	Otu12003	
##	CSI001	0	0	0.000000e+00	0	0	4.690652e-05	
##	CSI012	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI022	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI044	0	0	0.000000e+00	0	0	0.000000e+00	



##	CSI055	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI065	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI076	0	0	0.000000e+00	0	0	0.000000e+00
##	Otu12004	Otu12005	Otu12006	Otu12007	Otu12008	Otu12009	Otu12010
##	CSI001	0	0.000000e+00	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0
##	Otu12011	Otu12012	Otu12013	Otu12014	Otu12015	Otu12016	Otu12017
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##	Otu12018	Otu12019	Otu12020	Otu12021	Otu12022	Otu12023	Otu12024
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##	Otu12025	Otu12026	Otu12027	Otu12028	Otu12029	Otu12030	Otu12031
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##	Otu12032	Otu12033	Otu12034	Otu12035	Otu12036	Otu12037	Otu12038
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##	Otu12039	Otu12040	Otu12041	Otu12042	Otu12043	Otu12044	Otu12045
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##	Otu12046	Otu12047	Otu12048	Otu12049	Otu12050	Otu12051	Otu12052
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12053	Otu12054	Otu12055	Otu12056	Otu12057	Otu12058	Otu12059
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12060	Otu12061	Otu12062	Otu12063	Otu12064	Otu12065	Otu12066
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	2.151417e-05	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		Otu12067	Otu12068	Otu12069	Otu12070	Otu12071	Otu12072	Otu12073
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12074	Otu12075	Otu12076	Otu12077	Otu12078	Otu12079	Otu12080
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		Otu12081	Otu12082	Otu12083	Otu12084	Otu12085	Otu12086	
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI012	3.449941e-05	0.000000e+00	0	0	0	0.000000e+00	
##	CSI022	0.000000e+00	2.151556e-05	0	0	0	0.000000e+00	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	5.781349e-05	
##		Otu12087	Otu12088	Otu12089	Otu12090	Otu12091	Otu12092	Otu12093
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12094	Otu12095	Otu12096	Otu12097	Otu12098	Otu12099	Otu12100

##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		Otu12101	Otu12102	Otu12103	Otu12104	Otu12105	Otu12106	Otu12107
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12108	Otu12109	Otu12110	Otu12111	Otu12112	Otu12113	
##	CSI001	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI012	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI022	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0	0	0.000000e+00	0	0.000000e+00	0	
##		Otu12114	Otu12115	Otu12116	Otu12117	Otu12118	Otu12119	Otu12120
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12121	Otu12122	Otu12123	Otu12124	Otu12125	Otu12126	Otu12127
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	3.782005e-05	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		Otu12128	Otu12129	Otu12130	Otu12131	Otu12132	Otu12133	Otu12134
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12135	Otu12136	Otu12137	Otu12138	Otu12139	Otu12140	Otu12141
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##		Otu12142	Otu12143	Otu12144	Otu12145	Otu12146	Otu12147	Otu12148
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12149	Otu12150	Otu12151	Otu12152	Otu12153	Otu12154	Otu12155
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		Otu12156	Otu12157	Otu12158	Otu12159	Otu12160	Otu12161	
##	CSI001	0	0.000000e+00	2.345326e-05	0	0	0	
##	CSI012	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI022	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI044	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI055	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI065	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI076	0	0.000000e+00	0.000000e+00	0	0	0	
##		Otu12162	Otu12163	Otu12164	Otu12165	Otu12166	Otu12167	
##	CSI001	0	0	0	0.000000e+00	0	0	
##	CSI012	0	0	0	0.000000e+00	0	0	
##	CSI022	0	0	0	0.000000e+00	0	0	
##	CSI044	0	0	0	0.000000e+00	0	0	
##	CSI055	0	0	0	0.000000e+00	0	0	
##	CSI065	0	0	0	0.000000e+00	0	0	
##	CSI076	0	0	0	2.890675e-05	0	0	
##		Otu12168	Otu12169	Otu12170	Otu12171	Otu12172	Otu12173	
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI022	2.151556e-05	0	0	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0	0	7.56401e-05	0	
##	CSI076	0.000000e+00	0	0	0	0.000000e+00	0	
##		Otu12174	Otu12175	Otu12176	Otu12177	Otu12178	Otu12179	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI055	2.151417e-05	0	0.000000e+00	0	0	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0	
##		Otu12180	Otu12181	Otu12182	Otu12183	Otu12184	Otu12185	Otu12186
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0

##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12187	Otu12188	Otu12189	Otu12190	Otu12191	Otu12192	Otu12193
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12194	Otu12195	Otu12196	Otu12197	Otu12198	Otu12199	Otu12200
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	1.724971e-05
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		Otu12201	Otu12202	Otu12203	Otu12204	Otu12205	Otu12206	Otu12207
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	3.94314e-05	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		Otu12208	Otu12209	Otu12210	Otu12211	Otu12212	Otu12213	Otu12214
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12215	Otu12216	Otu12217	Otu12218	Otu12219	Otu12220	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI012	0.000000e+00	0	1.724971e-05	0	0	0	
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI065	7.56401e-05	0	0.000000e+00	0	0	0	
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0	
##		Otu12221	Otu12222	Otu12223	Otu12224	Otu12225	Otu12226	Otu12227
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12228	Otu12229	Otu12230	Otu12231	Otu12232	Otu12233	Otu12234
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12235	Otu12236	Otu12237	Otu12238	Otu12239	Otu12240	Otu12241
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12242	Otu12243	Otu12244	Otu12245	Otu12246	Otu12247	Otu12248
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		Otu12249	Otu12250	Otu12251	Otu12252	Otu12253	Otu12254	Otu12255
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12256	Otu12257	Otu12258	Otu12259	Otu12260	Otu12261	Otu12262
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12263	Otu12264	Otu12265	Otu12266	Otu12267	Otu12268	Otu12269
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12270	Otu12271	Otu12272	Otu12273	Otu12274	Otu12275	Otu12276
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12277	Otu12278	Otu12279	Otu12280	Otu12281	Otu12282	Otu12283

##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu12284	0tu12285	0tu12286	0tu12287	0tu12288	0tu12289	
##	CSI001	4.690652e-05	0	0	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI076	0.000000e+00	0	0	0	0.000000e+00	0	
##		0tu12290	0tu12291	0tu12292	0tu12293	0tu12294	0tu12295	0tu12296
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu12297	0tu12298	0tu12299	0tu12300	0tu12301	0tu12302	
##	CSI001	0	0	0	0	0	2.345326e-05	
##	CSI012	0	0	0	0	0	0.000000e+00	
##	CSI022	0	0	0	0	0	0.000000e+00	
##	CSI044	0	0	0	0	0	0.000000e+00	
##	CSI055	0	0	0	0	0	0.000000e+00	
##	CSI065	0	0	0	0	0	0.000000e+00	
##	CSI076	0	0	0	0	0	0.000000e+00	
##		0tu12303	0tu12304	0tu12305	0tu12306	0tu12307	0tu12308	0tu12309
##	CSI001	2.345326e-05	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu12310	0tu12311	0tu12312	0tu12313	0tu12314	0tu12315	0tu12316
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	2.151556e-05	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu12317	0tu12318	0tu12319	0tu12320	0tu12321	0tu12322	0tu12323
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	2.151417e-05	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0

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## CSI076      0      0      0 0.000000e+00      0      0      0
##      0tu12324      0tu12325 0tu12326      0tu12327 0tu12328 0tu12329
## CSI001 0.000000e+00 0.000000e+00      0 0.00000e+00      0      0
## CSI012 1.724971e-05 0.000000e+00      0 0.00000e+00      0      0
## CSI022 0.000000e+00 0.000000e+00      0 0.00000e+00      0      0
## CSI044 0.000000e+00 0.000000e+00      0 3.94314e-05      0      0
## CSI055 0.000000e+00 0.000000e+00      0 0.00000e+00      0      0
## CSI065 0.000000e+00 0.000000e+00      0 0.00000e+00      0      0
## CSI076 0.000000e+00 0.000000e+00      0 0.00000e+00      0      0
##      0tu12330 0tu12331 0tu12332 0tu12333 0tu12334 0tu12335 0tu12336
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu12337 0tu12338 0tu12339 0tu12340 0tu12341 0tu12342 0tu12343
## CSI001 0.000000e+00      0      0      0      0      0      0
## CSI012 0.000000e+00      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 4.302833e-05      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0      0
##      0tu12344 0tu12345      0tu12346 0tu12347 0tu12348 0tu12349
## CSI001      0      0 0.000000e+00      0      0      0
## CSI012      0      0 0.000000e+00      0      0      0
## CSI022      0      0 0.000000e+00      0      0      0
## CSI044      0      0 0.000000e+00      0      0      0
## CSI055      0      0 4.302833e-05      0      0      0
## CSI065      0      0 0.000000e+00      0      0      0
## CSI076      0      0 0.000000e+00      0      0      0
##      0tu12350 0tu12351 0tu12352 0tu12353 0tu12354 0tu12355 0tu12356
## CSI001 2.345326e-05      0      0      0      0      0      0
## CSI012 0.000000e+00      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 0.000000e+00      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0      0
##      0tu12357 0tu12358 0tu12359 0tu12360 0tu12361 0tu12362 0tu12363
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu12364 0tu12365 0tu12366 0tu12367 0tu12368 0tu12369 0tu12370
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0

```



##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12371	Otu12372	Otu12373	Otu12374	Otu12375	Otu12376	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI022	0.000000e+00	0	2.151556e-05	0	0	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0	
##		Otu12377	Otu12378	Otu12379	Otu12380	Otu12381	Otu12382	Otu12383
##	CSI001	0	0	0	2.345326e-05	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		Otu12384	Otu12385	Otu12386	Otu12387	Otu12388	Otu12389	Otu12390
##	CSI001	0	0	0	0	0	0	2.345326e-05
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		Otu12391	Otu12392	Otu12393	Otu12394	Otu12395	Otu12396	Otu12397
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		Otu12398	Otu12399	Otu12400	Otu12401	Otu12402	Otu12403	
##	CSI001	0.000000e+00	0	0	0.000000e+00	0.00000e+00	0	
##	CSI012	1.724971e-05	0	0	0.000000e+00	0.00000e+00	0	
##	CSI022	0.000000e+00	0	0	0.000000e+00	0.00000e+00	0	
##	CSI044	0.000000e+00	0	0	0.000000e+00	3.94314e-05	0	
##	CSI055	0.000000e+00	0	0	0.000000e+00	0.00000e+00	0	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0.00000e+00	0	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0.00000e+00	0	
##		Otu12404	Otu12405	Otu12406	Otu12407	Otu12408	Otu12409	Otu12410
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	1.724971e-05	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		Otu12411	Otu12412	Otu12413	Otu12414	Otu12415	Otu12416	Otu12417
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12418	Otu12419	Otu12420	Otu12421	Otu12422	Otu12423	Otu12424
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		Otu12425	Otu12426	Otu12427	Otu12428	Otu12429	Otu12430	Otu12431
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12432	Otu12433	Otu12434	Otu12435	Otu12436	Otu12437	Otu12438
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12439	Otu12440	Otu12441	Otu12442	Otu12443	Otu12444	Otu12445
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	3.449941e-05	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		Otu12446	Otu12447	Otu12448	Otu12449	Otu12450	Otu12451	Otu12452
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	3.449941e-05	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	0.000000e+00	0	0	0
##		Otu12453	Otu12454	Otu12455	Otu12456	Otu12457	Otu12458	Otu12459
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12460	Otu12461	Otu12462	Otu12463	Otu12464	Otu12465	Otu12466

##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	3.449941e-05	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		Otu12467	Otu12468	Otu12469	Otu12470	Otu12471	Otu12472	Otu12473
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12474	Otu12475	Otu12476	Otu12477	Otu12478	Otu12479	Otu12480
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12481	Otu12482	Otu12483	Otu12484	Otu12485	Otu12486	Otu12487
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12488	Otu12489	Otu12490	Otu12491	Otu12492	Otu12493	
##	CSI001	0.000000e+00	0	0	0	0	0	
##	CSI012	0.000000e+00	0	0	0	0	0	
##	CSI022	2.151556e-05	0	0	0	0	0	
##	CSI044	0.000000e+00	0	0	0	0	0	
##	CSI055	0.000000e+00	0	0	0	0	0	
##	CSI065	0.000000e+00	0	0	0	0	0	
##	CSI076	0.000000e+00	0	0	0	0	0	
##		Otu12494	Otu12495	Otu12496	Otu12497	Otu12498	Otu12499	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI012	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0	
##		Otu12500	Otu12501	Otu12502	Otu12503	Otu12504	Otu12505	Otu12506
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0

##	CSI076	0	0	0	0	0	0	0
##		0tu12507	0tu12508	0tu12509	0tu12510	0tu12511	0tu12512	0tu12513
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu12514	0tu12515	0tu12516	0tu12517	0tu12518	0tu12519	0tu12520
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu12521	0tu12522	0tu12523	0tu12524	0tu12525	0tu12526	0tu12527
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu12528	0tu12529	0tu12530	0tu12531	0tu12532	0tu12533	
##	CSI001	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0	3.449941e-05	0	1.724971e-05	0	
##	CSI022	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##		0tu12534	0tu12535	0tu12536	0tu12537	0tu12538	0tu12539	0tu12540
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu12541	0tu12542	0tu12543	0tu12544	0tu12545	0tu12546	0tu12547
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu12548	0tu12549	0tu12550	0tu12551	0tu12552	0tu12553	0tu12554
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0

```

## CSI055      0 0.000000e+00      0      0      0      0      0
## CSI065      0 0.000000e+00      0      0      0      0      0
## CSI076      0 0.000000e+00      0      0      0      0      0
##      0tu12555 0tu12556 0tu12557 0tu12558 0tu12559 0tu12560 0tu12561
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu12562 0tu12563 0tu12564 0tu12565 0tu12566 0tu12567 0tu12568
## CSI001      0      0      0      0      0      0      0
## CSI012      0      0      0      0      0      0      0
## CSI022      0      0      0      0      0      0      0
## CSI044      0      0      0      0      0      0      0
## CSI055      0      0      0      0      0      0      0
## CSI065      0      0      0      0      0      0      0
## CSI076      0      0      0      0      0      0      0
##      0tu12569 0tu12570 0tu12571 0tu12572 0tu12573 0tu12574 0tu12575
## CSI001 0.000000e+00      0      0      0      0      0      0
## CSI012 1.724971e-05      0      0      0      0      0      0
## CSI022 0.000000e+00      0      0      0      0      0      0
## CSI044 0.000000e+00      0      0      0      0      0      0
## CSI055 0.000000e+00      0      0      0      0      0      0
## CSI065 0.000000e+00      0      0      0      0      0      0
## CSI076 0.000000e+00      0      0      0      0      0      0
##      0tu12576 0tu12577 0tu12578 0tu12579 0tu12580 0tu12581      0tu12582
## CSI001      0      0      0      0      0      0 0.000000e+00
## CSI012      0      0      0      0      0      0 0.000000e+00
## CSI022      0      0      0      0      0      0 0.000000e+00
## CSI044      0      0      0      0      0      0 0.000000e+00
## CSI055      0      0      0      0      0      0 0.000000e+00
## CSI065      0      0      0      0      0      0 0.000000e+00
## CSI076      0      0      0      0      0      0 0.000000e+00
##      0tu12583 0tu12584 0tu12585      0tu12586 0tu12587 0tu12588 0tu12589
## CSI001      0      0      0 0.000000e+00      0      0      0
## CSI012      0      0      0 0.000000e+00      0      0      0
## CSI022      0      0      0 0.000000e+00      0      0      0
## CSI044      0      0      0 0.000000e+00      0      0      0
## CSI055      0      0      0 0.000000e+00      0      0      0
## CSI065      0      0      0 0.000000e+00      0      0      0
## CSI076      0      0      0 0.000000e+00      0      0      0
##      0tu12590 0tu12591 0tu12592 0tu12593      0tu12594      0tu12595
## CSI001      0      0      0      0 0.000000e+00 0.000000e+00
## CSI012      0      0      0      0 0.000000e+00 1.724971e-05
## CSI022      0      0      0      0 0.000000e+00 0.000000e+00
## CSI044      0      0      0      0 0.000000e+00 0.000000e+00
## CSI055      0      0      0      0 2.151417e-05 0.000000e+00
## CSI065      0      0      0      0 0.000000e+00 0.000000e+00
## CSI076      0      0      0      0 0.000000e+00 0.000000e+00
##      0tu12596 0tu12597 0tu12598 0tu12599      0tu12600 0tu12601
## CSI001      0      0      0      0 2.345326e-05      0
## CSI012      0      0      0      0 0.000000e+00      0

```

##	CSI022	0	0	0	0	0.000000e+00	0	
##	CSI044	0	0	0	0	0.000000e+00	0	
##	CSI055	0	0	0	0	0.000000e+00	0	
##	CSI065	0	0	0	0	0.000000e+00	0	
##	CSI076	0	0	0	0	0.000000e+00	0	
##		Otu12602	Otu12603	Otu12604	Otu12605	Otu12606	Otu12607	
##	CSI001	2.345326e-05	2.345326e-05	0	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0	3.782005e-05	0	
##	CSI076	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##		Otu12608	Otu12609	Otu12610	Otu12611	Otu12612	Otu12613	Otu12614
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12615	Otu12616	Otu12617	Otu12618	Otu12619	Otu12620	Otu12621
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12622	Otu12623	Otu12624	Otu12625	Otu12626	Otu12627	Otu12628
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	5.781349e-05	0	0
##		Otu12629	Otu12630	Otu12631	Otu12632	Otu12633	Otu12634	Otu12635
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12636	Otu12637	Otu12638	Otu12639	Otu12640	Otu12641	Otu12642
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		Otu12643	Otu12644	Otu12645	Otu12646	Otu12647	Otu12648	Otu12649

##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12650	Otu12651	Otu12652	Otu12653	Otu12654	Otu12655	Otu12656
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12657	Otu12658	Otu12659	Otu12660	Otu12661	Otu12662	Otu12663
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12664	Otu12665	Otu12666	Otu12667	Otu12668	Otu12669	Otu12670
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12671	Otu12672	Otu12673	Otu12674	Otu12675	Otu12676	Otu12677
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		Otu12678	Otu12679	Otu12680	Otu12681	Otu12682	Otu12683	Otu12684
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12685	Otu12686	Otu12687	Otu12688	Otu12689	Otu12690	
##	CSI001	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI012	1.724971e-05	0	0	3.449941e-05	0	0	
##	CSI022	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI044	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI055	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI065	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0	

##	CSI076	0.000000e+00	0	0	0.000000e+00	0	0
##		Otu12691	Otu12692	Otu12693	Otu12694	Otu12695	Otu12696
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		Otu12698	Otu12699	Otu12700	Otu12701	Otu12702	Otu12703
##	CSI001	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0.000000e+00	0
##		Otu12705	Otu12706	Otu12707	Otu12708	Otu12709	Otu12710
##	CSI001	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	1.724971e-05
##	CSI022	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0.000000e+00
##		Otu12712	Otu12713	Otu12714	Otu12715	Otu12716	Otu12717
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		Otu12719	Otu12720	Otu12721	Otu12722	Otu12723	Otu12724
##	CSI001	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0.000000e+00	0
##		Otu12726	Otu12727	Otu12728	Otu12729	Otu12730	Otu12731
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		Otu12733	Otu12734	Otu12735	Otu12736	Otu12737	Otu12738
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0



##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu12740	Otu12741	Otu12742	Otu12743	Otu12744	Otu12745	Otu12746	
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	2.151556e-05	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##	Otu12747	Otu12748	Otu12749	Otu12750	Otu12751	Otu12752	Otu12753	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu12754	Otu12755	Otu12756	Otu12757	Otu12758	Otu12759	Otu12760	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu12761	Otu12762	Otu12763	Otu12764	Otu12765	Otu12766	Otu12767	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu12768	Otu12769	Otu12770	Otu12771	Otu12772	Otu12773	Otu12774	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu12775	Otu12776	Otu12777	Otu12778	Otu12779	Otu12780	Otu12781	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu12782	Otu12783	Otu12784	Otu12785	Otu12786	Otu12787	Otu12788	
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0

##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	5.781349e-05	0	0
##	Otu12789	Otu12790	Otu12791	Otu12792	Otu12793	Otu12794	Otu12795	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu12796	Otu12797	Otu12798	Otu12799	Otu12800	Otu12801	Otu12802	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu12803	Otu12804	Otu12805	Otu12806	Otu12807	Otu12808	Otu12809	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu12810	Otu12811	Otu12812	Otu12813	Otu12814	Otu12815	Otu12816	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu12817	Otu12818	Otu12819	Otu12820	Otu12821	Otu12822	Otu12823	
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##	Otu12824	Otu12825	Otu12826	Otu12827	Otu12828	Otu12829		
##	CSI001	0	0.000000e+00	0	4.690652e-05	0	0	
##	CSI012	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI022	0	4.303111e-05	0	0.000000e+00	0	0	
##	CSI044	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI055	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI065	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI076	0	0.000000e+00	0	0.000000e+00	0	0	
##	Otu12830	Otu12831	Otu12832	Otu12833	Otu12834	Otu12835	Otu12836	

##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	3.449941e-05	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu12837	0tu12838	0tu12839	0tu12840	0tu12841	0tu12842	0tu12843
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu12844	0tu12845	0tu12846	0tu12847	0tu12848	0tu12849	0tu12850
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu12851	0tu12852	0tu12853	0tu12854	0tu12855	0tu12856	0tu12857
##	CSI001	0	4.690652e-05	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		0tu12858	0tu12859	0tu12860	0tu12861	0tu12862	0tu12863	0tu12864
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	4.302833e-05	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu12865	0tu12866	0tu12867	0tu12868	0tu12869	0tu12870	0tu12871
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu12872	0tu12873	0tu12874	0tu12875	0tu12876	0tu12877	0tu12878
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0

##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu12879	0tu12880	0tu12881	0tu12882	0tu12883	0tu12884	0tu12885
##	CSI001	0	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	0	0.000000e+00	0	0	0
##	CSI065	0	0	0	0.000000e+00	0	0	0
##	CSI076	0	0	0	5.781349e-05	0	0	0
##		0tu12886	0tu12887	0tu12888	0tu12889	0tu12890	0tu12891	0tu12892
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu12893	0tu12894	0tu12895	0tu12896	0tu12897	0tu12898	0tu12899
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	2.151556e-05	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu12900	0tu12901	0tu12902	0tu12903	0tu12904	0tu12905	
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI012	0.000000e+00	1.724971e-05	0	0	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0	
##		0tu12906	0tu12907	0tu12908	0tu12909	0tu12910	0tu12911	0tu12912
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu12913	0tu12914	0tu12915	0tu12916	0tu12917	0tu12918	0tu12919
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu12920	0tu12921	0tu12922	0tu12923	0tu12924	0tu12925	0tu12926
##	CSI001	0	0	0	0	0	0	2.345326e-05
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00

##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		Otu12927	Otu12928	Otu12929	Otu12930	Otu12931	Otu12932	Otu12933
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	4.302833e-05	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		Otu12934	Otu12935	Otu12936	Otu12937	Otu12938	Otu12939	Otu12940
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		Otu12941	Otu12942	Otu12943	Otu12944	Otu12945	Otu12946	Otu12947
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12948	Otu12949	Otu12950	Otu12951	Otu12952	Otu12953	Otu12954
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	3.449941e-05	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		Otu12955	Otu12956	Otu12957	Otu12958	Otu12959	Otu12960	
##	CSI001	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI012	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI022	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI044	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI055	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI065	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI076	0.000000e+00	0	0	0	0.000000e+00	0	
##		Otu12961	Otu12962	Otu12963	Otu12964	Otu12965	Otu12966	Otu12967
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu12968	Otu12969	Otu12970	Otu12971	Otu12972	Otu12973	Otu12974
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu12975	0tu12976	0tu12977	0tu12978	0tu12979	0tu12980	0tu12981
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu12982	0tu12983	0tu12984	0tu12985	0tu12986	0tu12987	0tu12988
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu12989	0tu12990	0tu12991	0tu12992	0tu12993	0tu12994	0tu12995
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu12996	0tu12997	0tu12998	0tu12999	0tu13000	0tu13001	0tu13002
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	2.151556e-05	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu13003	0tu13004	0tu13005	0tu13006	0tu13007	0tu13008	0tu13009
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	1.724971e-05	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		0tu13010	0tu13011	0tu13012	0tu13013	0tu13014	0tu13015	0tu13016
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu13017	0tu13018	0tu13019	0tu13020	0tu13021	0tu13022	

##	CSI001	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0.000000e+00
##		0tu13023	0tu13024	0tu13025	0tu13026	0tu13027	0tu13028
##	CSI001	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI012	1.724971e-05	0	0.000000e+00	0	0	0
##	CSI022	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI044	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI055	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI065	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI076	0.000000e+00	0	0.000000e+00	0	0	0
##		0tu13029	0tu13030	0tu13031	0tu13032	0tu13033	0tu13034
##	CSI001	0.000000e+00	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0
##		0tu13036	0tu13037	0tu13038	0tu13039	0tu13040	0tu13041
##	CSI001	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	3.449941e-05
##	CSI022	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0.000000e+00
##		0tu13043	0tu13044	0tu13045	0tu13046	0tu13047	0tu13048
##	CSI001	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	4.302833e-05	0
##	CSI065	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0.000000e+00	0
##		0tu13050	0tu13051	0tu13052	0tu13053	0tu13054	0tu13055
##	CSI001	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0
##		0tu13057	0tu13058	0tu13059	0tu13060	0tu13061	0tu13062
##	CSI001	0	0	0.000000e+00	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0
##	CSI055	0	0	4.302833e-05	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0

##	CSI076	0	0	0.000000e+00	0	0	0	0
##		Otu13064	Otu13065	Otu13066	Otu13067	Otu13068	Otu13069	Otu13070
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13071	Otu13072	Otu13073	Otu13074	Otu13075	Otu13076	Otu13077
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13078	Otu13079	Otu13080	Otu13081	Otu13082	Otu13083	Otu13084
##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	0.000000e+00	0	0	0	0	0
##		Otu13085	Otu13086	Otu13087	Otu13088	Otu13089	Otu13090	Otu13091
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13092	Otu13093	Otu13094	Otu13095	Otu13096	Otu13097	
##	CSI001	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI012	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI022	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI044	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI055	0	0	0	0.000000e+00	0	4.302833e-05	
##	CSI065	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI076	0	0	0	0.000000e+00	0	0.000000e+00	
##		Otu13098	Otu13099	Otu13100	Otu13101	Otu13102	Otu13103	Otu13104
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13105	Otu13106	Otu13107	Otu13108	Otu13109	Otu13110	Otu13111
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0



##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13112	Otu13113	Otu13114	Otu13115	Otu13116	Otu13117	Otu13118
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13119	Otu13120	Otu13121	Otu13122	Otu13123	Otu13124	Otu13125
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13126	Otu13127	Otu13128	Otu13129	Otu13130	Otu13131	Otu13132
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13133	Otu13134	Otu13135	Otu13136	Otu13137	Otu13138	
##	CSI001	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI012	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI022	0	2.151556e-05	0	0.000000e+00	0	0	
##	CSI044	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI055	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI065	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI076	0	0.000000e+00	0	5.781349e-05	0	0	
##		Otu13139	Otu13140	Otu13141	Otu13142	Otu13143	Otu13144	Otu13145
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13146	Otu13147	Otu13148	Otu13149	Otu13150	Otu13151	
##	CSI001	0	0.000000e+00	0	0	0	4.690652e-05	
##	CSI012	0	3.449941e-05	0	0	0	0.000000e+00	
##	CSI022	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI044	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI055	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI065	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI076	0	0.000000e+00	0	0	0	0.000000e+00	
##		Otu13152	Otu13153	Otu13154	Otu13155	Otu13156	Otu13157	
##	CSI001	0	0	0.000000e+00	0	0	0	
##	CSI012	0	0	0.000000e+00	0	0	0	

##	CSI022	0	0	0.000000e+00	0	0	0	
##	CSI044	0	0	0.000000e+00	0	0	0	
##	CSI055	0	0	0.000000e+00	0	0	0	
##	CSI065	0	0	0.000000e+00	0	0	0	
##	CSI076	0	0	0.000000e+00	0	0	0	
##		0tu13158	0tu13159	0tu13160	0tu13161	0tu13162	0tu13163	0tu13164
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	4.303111e-05	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		0tu13165	0tu13166	0tu13167	0tu13168	0tu13169	0tu13170	0tu13171
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	0.000000e+00	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		0tu13172	0tu13173	0tu13174	0tu13175	0tu13176	0tu13177	0tu13178
##	CSI001	0	0	0	0	0.000000e+00	0	0
##	CSI012	0	0	0	0	0.000000e+00	0	0
##	CSI022	0	0	0	0	0.000000e+00	0	0
##	CSI044	0	0	0	0	0.000000e+00	0	0
##	CSI055	0	0	0	0	0.000000e+00	0	0
##	CSI065	0	0	0	0	0.000000e+00	0	0
##	CSI076	0	0	0	0	0.000000e+00	0	0
##		0tu13179	0tu13180	0tu13181	0tu13182	0tu13183	0tu13184	0tu13185
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	3.449941e-05
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		0tu13186	0tu13187	0tu13188	0tu13189	0tu13190	0tu13191	0tu13192
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		0tu13193	0tu13194	0tu13195	0tu13196	0tu13197	0tu13198	
##	CSI001	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI012	0	3.449941e-05	0	0.000000e+00	0	0	
##	CSI022	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI044	0	0.000000e+00	0	3.94314e-05	0	0	
##	CSI055	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI065	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI076	0	0.000000e+00	0	0.000000e+00	0	0	
##		0tu13199	0tu13200	0tu13201	0tu13202	0tu13203	0tu13204	0tu13205

##	CSI001	0	0.000000e+00	0	0	0	0	0
##	CSI012	0	0.000000e+00	0	0	0	0	0
##	CSI022	0	0.000000e+00	0	0	0	0	0
##	CSI044	0	0.000000e+00	0	0	0	0	0
##	CSI055	0	0.000000e+00	0	0	0	0	0
##	CSI065	0	0.000000e+00	0	0	0	0	0
##	CSI076	0	5.781349e-05	0	0	0	0	0
##		Otu13206	Otu13207	Otu13208	Otu13209	Otu13210	Otu13211	
##	CSI001	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI012	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI022	0	0	0.000000e+00	0	2.151556e-05	0	
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI076	0	0	0.000000e+00	0	0.000000e+00	0	
##		Otu13212	Otu13213	Otu13214	Otu13215	Otu13216	Otu13217	Otu13218
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13219	Otu13220	Otu13221	Otu13222	Otu13223	Otu13224	Otu13225
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13226	Otu13227	Otu13228	Otu13229	Otu13230	Otu13231	Otu13232
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13233	Otu13234	Otu13235	Otu13236	Otu13237	Otu13238	Otu13239
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13240	Otu13241	Otu13242	Otu13243	Otu13244	Otu13245	Otu13246
##	CSI001	0	0	0	0	0	0	4.690652e-05
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00

##	CSI076	0	0	0	0	0	0	0.000000e+00
##		Otu13247	Otu13248	Otu13249	Otu13250	Otu13251	Otu13252	Otu13253
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13254	Otu13255	Otu13256	Otu13257	Otu13258	Otu13259	Otu13260
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13261	Otu13262	Otu13263	Otu13264	Otu13265	Otu13266	Otu13267
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13268	Otu13269	Otu13270	Otu13271	Otu13272	Otu13273	Otu13274
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13275	Otu13276	Otu13277	Otu13278	Otu13279	Otu13280	Otu13281
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	4.302833e-05	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		Otu13282	Otu13283	Otu13284	Otu13285	Otu13286	Otu13287	Otu13288
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13289	Otu13290	Otu13291	Otu13292	Otu13293	Otu13294	Otu13295
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0

##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu13296	Otu13297	Otu13298	Otu13299	Otu13300	Otu13301	Otu13302	
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##	Otu13303	Otu13304	Otu13305	Otu13306	Otu13307	Otu13308	Otu13309	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu13310	Otu13311	Otu13312	Otu13313	Otu13314	Otu13315	Otu13316	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu13317	Otu13318	Otu13319	Otu13320	Otu13321	Otu13322	Otu13323	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu13324	Otu13325	Otu13326	Otu13327	Otu13328	Otu13329	Otu13330	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu13331	Otu13332	Otu13333	Otu13334	Otu13335	Otu13336	Otu13337	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##	Otu13338	Otu13339	Otu13340	Otu13341	Otu13342	Otu13343	Otu13344	
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0

##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13345	Otu13346	Otu13347	Otu13348	Otu13349	Otu13350	
##	CSI001	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI012	1.724971e-05	0.000000e+00	0	0	0	0	
##	CSI022	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI044	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI055	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI065	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI076	0.000000e+00	0.000000e+00	0	0	0	0	
##		Otu13351	Otu13352	Otu13353	Otu13354	Otu13355	Otu13356	Otu13357
##	CSI001	0	0	0	0	0	0	0.000000e+00
##	CSI012	0	0	0	0	0	0	0.000000e+00
##	CSI022	0	0	0	0	0	0	0.000000e+00
##	CSI044	0	0	0	0	0	0	0.000000e+00
##	CSI055	0	0	0	0	0	0	0.000000e+00
##	CSI065	0	0	0	0	0	0	0.000000e+00
##	CSI076	0	0	0	0	0	0	0.000000e+00
##		Otu13358	Otu13359	Otu13360	Otu13361	Otu13362	Otu13363	
##	CSI001	0	0	0.000000e+00	0	0	0	
##	CSI012	0	0	0.000000e+00	0	0	0	
##	CSI022	0	0	0.000000e+00	0	0	0	
##	CSI044	0	0	0.000000e+00	0	0	0	
##	CSI055	0	0	0.000000e+00	0	0	0	
##	CSI065	0	0	0.000000e+00	0	0	0	
##	CSI076	0	0	0.000000e+00	0	0	0	
##		Otu13364	Otu13365	Otu13366	Otu13367	Otu13368	Otu13369	Otu13370
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	0.000000e+00	0	0	0	0	0	0
##		Otu13371	Otu13372	Otu13373	Otu13374	Otu13375	Otu13376	Otu13377
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13378	Otu13379	Otu13380	Otu13381	Otu13382	Otu13383	Otu13384
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13385	Otu13386	Otu13387	Otu13388	Otu13389	Otu13390	Otu13391

##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		Otu13392	Otu13393	Otu13394	Otu13395	Otu13396	Otu13397	Otu13398
##	CSI001	0.000000e+00	0	0	0	0	0	0
##	CSI012	0.000000e+00	0	0	0	0	0	0
##	CSI022	0.000000e+00	0	0	0	0	0	0
##	CSI044	0.000000e+00	0	0	0	0	0	0
##	CSI055	0.000000e+00	0	0	0	0	0	0
##	CSI065	0.000000e+00	0	0	0	0	0	0
##	CSI076	2.890675e-05	0	0	0	0	0	0
##		Otu13399	Otu13400	Otu13401	Otu13402	Otu13403	Otu13404	Otu13405
##	CSI001	0	0	0	0	0	0.000000e+00	0
##	CSI012	0	0	0	0	0	0.000000e+00	0
##	CSI022	0	0	0	0	0	0.000000e+00	0
##	CSI044	0	0	0	0	0	0.000000e+00	0
##	CSI055	0	0	0	0	0	4.302833e-05	0
##	CSI065	0	0	0	0	0	0.000000e+00	0
##	CSI076	0	0	0	0	0	0.000000e+00	0
##		Otu13406	Otu13407	Otu13408	Otu13409	Otu13410	Otu13411	Otu13412
##	CSI001	0	0	0	0	0	0	0
##	CSI012	0	0	0	0	0	0	0
##	CSI022	0	0	0	0	0	0	0
##	CSI044	0	0	0	0	0	0	0
##	CSI055	0	0	0	0	0	0	0
##	CSI065	0	0	0	0	0	0	0
##	CSI076	0	0	0	0	0	0	0
##		Otu13413	Otu13414	Otu13415	Otu13416	Otu13417	Otu13418	Otu13419
##	CSI001	0	0	2.345326e-05	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	0.000000e+00	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		Otu13420	Otu13421	Otu13422	Otu13423	Otu13424	Otu13425	Otu13426
##	CSI001	0	0	0.000000e+00	0	0	0	0
##	CSI012	0	0	0.000000e+00	0	0	0	0
##	CSI022	0	0	0.000000e+00	0	0	0	0
##	CSI044	0	0	3.94314e-05	0	0	0	0
##	CSI055	0	0	0.000000e+00	0	0	0	0
##	CSI065	0	0	0.000000e+00	0	0	0	0
##	CSI076	0	0	0.000000e+00	0	0	0	0
##		Otu13427	Otu13428	Otu13429	Otu13430	Otu13431	Otu13432	
##	CSI001	0	0	0.000000e+00	0	4.690652e-05	0	
##	CSI012	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI022	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI044	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI055	0	0	2.151417e-05	0	0.000000e+00	0	
##	CSI065	0	0	0.000000e+00	0	0.000000e+00	0	

```

## CSI076      0      0 0.000000e+00      0 0.000000e+00      0
##      0tu13433 0tu13434 0tu13435
## CSI001      0      0      0
## CSI012      0      0      0
## CSI022      0      0      0
## CSI044      0      0      0
## CSI055      0      0      0
## CSI065      0      0      0
## CSI076      0      0      0
## [ reached getOption("max.print") -- omitted 4 rows ]

##      CSI_ID      Date Date2 Replicate Number      Tank_Name
## CSI002 ECU_CSI_002 11-Jun-15      0      A      2 A2_2015-June11
## CSI013 ECU_CSI_013 11-Jun-15      0      B      2 B2_2015-June11
## CSI023 ECU_CSI_024 11-Jun-15      0      C      2 C2_2015-June11
## CSI034 ECU_CSI_035 11-Jun-15      0      D      2 D2_2015-June11
## CSI045 ECU_CSI_222 26-Jul-15     45      A      2 A2_2015-July25
## CSI056 ECU_CSI_233 26-Jul-15     45      B      2 B2_2015-July25
## CSI066 ECU_CSI_244 26-Jul-15     45      C      2 C2_2015-July25
##      Salinity Dispersal      0tu00001      0tu00002      0tu00003
## CSI002      0      Source0 1.362194e-03 0.1502363406 1.362194e-05
## CSI013      0      Source0 8.309098e-04 0.1535265731 3.195807e-05
## CSI023      0      Source0 1.632820e-04 0.1221349117 4.082049e-05
## CSI034      0      Source0 1.326436e-03 0.0559945427 5.684725e-05
## CSI045      0      Source0 9.795279e-05 0.0444379143 0.000000e+00
## CSI056      0      Source0 1.959286e-05 0.0027234076 1.959286e-05
## CSI066      0      Source0 1.150108e-04 0.0314554621 1.916847e-05
##      0tu00004      0tu00005      0tu00006      0tu00007      0tu00008
## CSI002 1.682990e-01 4.086581e-05 0.0164008119 6.524908e-03 0.0059391644
## CSI013 1.821610e-03 6.391614e-05 0.0487999744 8.660637e-03 0.0083410565
## CSI023 0.000000e+00 2.041025e-05 0.0085314828 1.894071e-02 0.2008980508
## CSI034 1.421181e-03 1.136945e-04 0.0425596422 1.690258e-02 0.0121463627
## CSI045 0.000000e+00 3.265093e-05 0.0051588468 6.931792e-02 0.0249126588
## CSI056 3.918572e-05 5.877858e-05 0.0003526715 4.862948e-02 0.0004310429
## CSI066 5.367172e-04 1.916847e-05 0.0009392551 4.824704e-02 0.0018785102
##      0tu00009      0tu00010      0tu00011      0tu00012      0tu00013
## CSI002 2.016047e-03 1.362194e-05 1.362194e-05 0.000000e+00 0.004808544
## CSI013 9.587421e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.007669937
## CSI023 2.041025e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.018961118
## CSI034 1.136945e-04 0.000000e+00 1.894908e-05 0.000000e+00 0.019725996
## CSI045 1.406602e-01 3.265093e-05 0.000000e+00 3.265093e-05 0.023018905
## CSI056 3.742236e-03 0.000000e+00 1.959286e-05 0.000000e+00 0.015948588
## CSI066 2.110449e-02 1.916847e-05 0.000000e+00 0.000000e+00 0.031072093
##      0tu00014      0tu00015      0tu00016      0tu00017      0tu00018
## CSI002 0.000000e+00 2.724387e-05 0.000000e+00 1.961559e-02 2.724387e-05
## CSI013 3.195807e-05 0.000000e+00 9.587421e-05 3.195807e-05 3.195807e-05
## CSI023 2.041025e-05 0.000000e+00 0.000000e+00 1.264415e-01 0.000000e+00
## CSI034 1.894908e-05 0.000000e+00 0.000000e+00 1.724367e-03 0.000000e+00
## CSI045 6.530186e-05 0.000000e+00 0.000000e+00 3.150815e-02 0.000000e+00
## CSI056 1.959286e-05 0.000000e+00 0.000000e+00 4.277121e-02 9.796430e-05
## CSI066 0.000000e+00 0.000000e+00 0.000000e+00 5.731373e-03 1.916847e-05
##      0tu00019      0tu00020      0tu00021      0tu00022      0tu00023
## CSI002 0.0331149283 0.0089768563 0.000000e+00 1.362194e-05 4.086581e-05
## CSI013 0.0471701128 0.0003515388 0.000000e+00 0.000000e+00 1.278323e-04

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## CSI023 0.0041432799 0.1313807531 0.000000e+00 0.000000e+00 4.082049e-05
## CSI034 0.0231178823 0.0192712182 1.894908e-05 1.894908e-05 1.326436e-04
## CSI045 0.0005550658 0.0127991641 0.000000e+00 0.000000e+00 3.265093e-05
## CSI056 0.0018025432 0.0000000000 0.000000e+00 0.000000e+00 1.959286e-05
## CSI066 0.0032011348 0.0032969771 7.667389e-05 1.916847e-05 2.683586e-04
##      0tu00024      0tu00025      0tu00026      0tu00027      0tu00028
## CSI002 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 5.040117e-04
## CSI013 3.195807e-05 0.000000e+00 0.000000e+00 0.000000e+00 9.907002e-04
## CSI023 0.000000e+00 2.041025e-05 0.000000e+00 2.041025e-05 3.877947e-04
## CSI034 3.789817e-05 0.000000e+00 0.000000e+00 5.684725e-05 3.789817e-04
## CSI045 3.265093e-05 0.000000e+00 8.802690e-02 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00 1.959286e-05 0.000000e+00 0.000000e+00 3.918572e-05
## CSI066 0.000000e+00 0.000000e+00 1.326458e-02 3.833694e-05 0.000000e+00
##      0tu00029      0tu00030      0tu00031 0tu00032      0tu00033
## CSI002 4.086581e-05 6.704717e-02 1.408508e-02      0 1.819891e-02
## CSI013 0.000000e+00 4.109808e-02 3.195807e-05      0 4.074654e-02
## CSI023 2.041025e-05 1.455251e-02 5.055618e-02      0 8.021227e-03
## CSI034 0.000000e+00 2.349686e-03 3.031853e-04      0 1.110985e-01
## CSI045 0.000000e+00 8.358638e-03 5.550658e-04      0 0.000000e+00
## CSI056 0.000000e+00 5.877858e-05 1.175572e-04      0 3.330786e-04
## CSI066 0.000000e+00 6.325596e-04 2.091280e-02      0 3.833694e-05
##      0tu00034      0tu00035      0tu00036 0tu00037      0tu00038
## CSI002 0.000000e+00 0.000000e+00 0.0027243874      0 0.000000e+00
## CSI013 0.000000e+00 0.000000e+00 0.0002556646      0 3.195807e-05
## CSI023 0.000000e+00 0.000000e+00 0.0005918971      0 0.000000e+00
## CSI034 0.000000e+00 1.894908e-05 0.0054952343      0 0.000000e+00
## CSI045 0.000000e+00 0.000000e+00 0.0002612074      0 0.000000e+00
## CSI056 0.000000e+00 0.000000e+00 0.0010580145      0 1.959286e-05
## CSI066 0.000000e+00 3.833694e-05 0.0078782419      0 0.000000e+00
##      0tu00039      0tu00040      0tu00041      0tu00042      0tu00043
## CSI002 0.000000e+00 0.0027516312 2.724387e-05 0.003378240 0.0086499298
## CSI013 0.000000e+00 0.0031318910 0.000000e+00 0.005848327 0.0043782557
## CSI023 0.000000e+00 0.0002653332 0.000000e+00 0.001040923 0.0069394836
## CSI034 1.894908e-05 0.0071817028 3.789817e-05 0.005229947 0.0079396661
## CSI045 0.000000e+00 0.1168250237 0.000000e+00 0.004571130 0.0043099226
## CSI056 0.000000e+00 0.0004114501 0.000000e+00 0.044750093 0.0035854934
## CSI066 0.000000e+00 0.0517740421 0.000000e+00 0.015277272 0.0050221396
##      0tu00044      0tu00045 0tu00046      0tu00047 0tu00048
## CSI002 1.362194e-05 0.000000e+00      0 0.000000e+00      0
## CSI013 0.000000e+00 3.195807e-05      0 0.000000e+00      0
## CSI023 0.000000e+00 2.041025e-05      0 0.000000e+00      0
## CSI034 1.894908e-05 0.000000e+00      0 1.894908e-05      0
## CSI045 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI056 5.877858e-05 0.000000e+00      0 0.000000e+00      0
## CSI066 0.000000e+00 0.000000e+00      0 0.000000e+00      0
##      0tu00049      0tu00050      0tu00051      0tu00052      0tu00053
## CSI002 0.0013485717 0.0012395962 3.909496e-03 0.001798096 0.000000e+00
## CSI013 0.0063596561 0.0018216100 7.701895e-03 0.007925602 0.000000e+00
## CSI023 0.0006123074 0.0126747627 1.218492e-02 0.003122768 0.000000e+00
## CSI034 0.0064426885 0.0279309495 2.548652e-02 0.007693328 1.894908e-05
## CSI045 0.0009795279 0.0010121788 1.632546e-03 0.000000000 0.000000e+00
## CSI056 0.0616195458 0.0009796430 6.602794e-03 0.001371500 0.000000e+00
## CSI066 0.0020126895 0.0018210048 1.853591e-02 0.000000000 0.000000e+00
##      0tu00054      0tu00055      0tu00056      0tu00057      0tu00058

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## CSI002 2.724387e-05 0.000000e+00 0.000000e+00 1.362194e-05 0.000000e+00
## CSI013 6.391614e-05 0.000000e+00 0.000000e+00 0.000000e+00 3.195807e-05
## CSI023 2.041025e-05 2.041025e-05 0.000000e+00 2.041025e-05 0.000000e+00
## CSI034 1.326436e-04 0.000000e+00 0.000000e+00 0.000000e+00 3.789817e-05
## CSI045 1.972116e-02 0.000000e+00 3.265093e-05 0.000000e+00 0.000000e+00
## CSI056 2.453026e-02 0.000000e+00 0.000000e+00 0.000000e+00 3.918572e-05
## CSI066 2.599245e-02 0.000000e+00 0.000000e+00 0.000000e+00 1.916847e-05
##      0tu00059      0tu00060      0tu00061 0tu00062      0tu00063
## CSI002 6.320579e-03 9.535356e-05 1.634632e-04      0 1.362194e-05
## CSI013 1.728932e-02 5.752453e-04 0.000000e+00      0 0.000000e+00
## CSI023 1.122564e-03 2.041025e-05 0.000000e+00      0 0.000000e+00
## CSI034 2.004813e-02 1.667519e-03 1.894908e-05      0 0.000000e+00
## CSI045 4.571130e-04 9.044307e-03 6.921997e-03      0 0.000000e+00
## CSI056 5.290072e-04 4.192872e-03 2.919336e-03      0 0.000000e+00
## CSI066 2.223543e-03 4.236232e-03 7.519791e-02      0 0.000000e+00
##      0tu00064      0tu00065      0tu00066      0tu00067      0tu00068
## CSI002 0.000000e+00 1.362194e-05 0.000000e+00 0.000000e+00 2.724387e-05
## CSI013 0.000000e+00 0.000000e+00 3.195807e-05 0.000000e+00 0.000000e+00
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034 0.000000e+00 1.894908e-05 1.326436e-04 0.000000e+00 0.000000e+00
## CSI045 0.000000e+00 0.000000e+00 6.530186e-05 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00 1.959286e-05 3.722643e-04 0.000000e+00 0.000000e+00
## CSI066 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##      0tu00069      0tu00070      0tu00071      0tu00072      0tu00073
## CSI002 0.000000e+00 2.724387e-05 1.362194e-05 0.0001770852 1.089755e-04
## CSI013 6.391614e-05 0.000000e+00 3.195807e-05 0.0000000000 3.195807e-05
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000 0.000000e+00
## CSI034 1.894908e-05 1.894908e-05 1.894908e-05 0.0000000000 0.000000e+00
## CSI045 1.632546e-04 0.000000e+00 0.000000e+00 0.0000000000 3.265093e-05
## CSI056 0.000000e+00 1.959286e-05 3.918572e-05 0.0000000000 0.000000e+00
## CSI066 1.136690e-02 1.341793e-04 3.833694e-05 0.0000000000 1.916847e-05
##      0tu00074      0tu00075      0tu00076      0tu00077 0tu00078
## CSI002 0.000000e+00 1.362194e-05 0.000000e+00 0.000000e+00      0
## CSI013 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI023 3.571793e-03 0.000000e+00 0.000000e+00 4.082049e-05      0
## CSI034 3.789817e-05 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI045 1.234205e-02 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI056 5.184271e-02 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI066 1.150108e-04 0.000000e+00 1.916847e-05 0.000000e+00      0
##      0tu00079      0tu00080 0tu00081      0tu00082 0tu00083
## CSI002 2.996826e-04 0.000000e+00      0 1.089755e-04      0
## CSI013 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI023 8.164098e-05 0.000000e+00      0 2.041025e-05      0
## CSI034 0.000000e+00 0.000000e+00      0 1.515927e-04      0
## CSI045 3.265093e-05 0.000000e+00      0 3.265093e-04      0
## CSI056 0.000000e+00 0.000000e+00      0 1.959286e-05      0
## CSI066 9.584236e-05 0.000000e+00      0 2.593494e-02      0
##      0tu00084 0tu00085      0tu00086      0tu00087      0tu00088
## CSI002 1.716364e-03      0 0.000000e+00 0.0000000000 5.036030e-02
## CSI013 9.587421e-05      0 3.195807e-05 0.0000000000 1.262344e-02
## CSI023 0.000000e+00      0 0.000000e+00 0.0000000000 3.784060e-02
## CSI034 2.103348e-03      0 0.000000e+00 0.0000000000 1.894908e-05
## CSI045 7.803572e-03      0 0.000000e+00 0.0000000000 9.795279e-05
## CSI056 2.488293e-03      0 0.000000e+00 0.0000000000 0.000000e+00

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## CSI066 5.313500e-02      0 0.000000e+00 0.007609883 9.584236e-05
##      0tu00089      0tu00090      0tu00091      0tu00092      0tu00093
## CSI002 0.000000e+00 8.173162e-05 2.451949e-04 0.000000e+00 0.0006402310
## CSI013 1.342239e-03 7.669937e-04 0.000000e+00 0.000000e+00 0.0307756224
## CSI023 1.632820e-04 1.004184e-02 0.000000e+00 0.000000e+00 0.0001428717
## CSI034 1.894908e-05 2.785515e-03 2.273890e-04 1.894908e-05 0.0000000000
## CSI045 2.416169e-03 1.534594e-03 1.208084e-03 0.000000e+00 0.0045058282
## CSI056 2.155215e-04 4.898215e-04 8.268187e-03 0.000000e+00 0.0015282431
## CSI066 3.450325e-04 1.073434e-03 5.309667e-03 0.000000e+00 0.0053671721
##      0tu00094 0tu00095      0tu00096      0tu00097 0tu00098 0tu00099
## CSI002 0.000000e+00      0 0.000000e+00 1.362194e-05      0      0
## CSI013 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI034 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI045 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI056 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI066 1.916847e-05      0 0.000000e+00 0.000000e+00      0      0
##      0tu00100      0tu00101      0tu00102      0tu00103      0tu00104
## CSI002 0.000000e+00 2.724387e-05 0.000000e+00 1.362194e-05 0.0039503617
## CSI013 0.000000e+00 3.195807e-05 0.000000e+00 2.876226e-04 0.0097791697
## CSI023 0.000000e+00 0.000000e+00 2.041025e-05 0.000000e+00 0.0142871722
## CSI034 1.894908e-05 0.000000e+00 1.894908e-05 3.410835e-04 0.0071059064
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.0138439939
## CSI056 0.000000e+00 0.000000e+00 0.000000e+00 1.273536e-03 0.0022139932
## CSI066 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.0087599916
##      0tu00105      0tu00106      0tu00107      0tu00108 0tu00109
## CSI002 2.152266e-03 1.362194e-05 0.0000000000 1.362194e-05      0
## CSI013 4.825669e-03 0.000000e+00 0.0001278323 1.607491e-02      0
## CSI023 4.082049e-05 0.000000e+00 0.0000000000 4.592305e-03      0
## CSI034 7.295397e-03 0.000000e+00 0.0000000000 1.136945e-04      0
## CSI045 2.612074e-03 0.000000e+00 0.0736278447 0.000000e+00      0
## CSI056 1.371500e-03 0.000000e+00 0.0155371383 4.702286e-04      0
## CSI066 2.760260e-03 0.000000e+00 0.0012076137 3.833694e-05      0
##      0tu00110      0tu00111      0tu00112      0tu00113      0tu00114
## CSI002 1.362194e-05 4.658702e-03 8.173162e-05 2.724387e-05 0.000000e+00
## CSI013 3.195807e-05 1.278323e-04 7.030776e-04 7.094692e-03 0.000000e+00
## CSI023 2.041025e-05 2.694152e-03 1.245025e-03 5.102561e-04 2.041025e-05
## CSI034 0.000000e+00 2.463381e-04 9.853524e-04 0.000000e+00 0.000000e+00
## CSI045 0.000000e+00 2.938584e-02 1.012179e-03 4.407875e-03 0.000000e+00
## CSI056 0.000000e+00 1.136386e-03 8.033073e-04 6.918239e-02 0.000000e+00
## CSI066 0.000000e+00 1.705994e-03 3.431156e-03 3.814526e-02 0.000000e+00
##      0tu00115      0tu00116      0tu00117      0tu00118 0tu00119
## CSI002 0.000000e+00 0.0077645040 1.430303e-03 3.987141e-02      0
## CSI013 0.000000e+00 0.0063916142 1.661820e-03 9.587421e-05      0
## CSI023 0.000000e+00 0.0007143586 3.265639e-04 0.000000e+00      0
## CSI034 0.000000e+00 0.0070869573 7.958615e-04 3.789817e-05      0
## CSI045 0.000000e+00 0.0013060372 3.918111e-04 3.265093e-05      0
## CSI056 1.959286e-05 0.0013127216 1.829973e-02 0.000000e+00      0
## CSI066 0.000000e+00 0.0033161456 0.000000e+00 0.000000e+00      0
##      0tu00120      0tu00121      0tu00122 0tu00123      0tu00124 0tu00125
## CSI002      0 0.000000e+00 1.266840e-03      0 0.000000e+00      0
## CSI013      0 1.597904e-04 0.000000e+00      0 0.000000e+00      0
## CSI023      0 2.041025e-05 2.245127e-04      0 0.000000e+00      0
## CSI034      0 0.000000e+00 7.579634e-04      0 0.000000e+00      0

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## CSI045      0 0.000000e+00 2.285565e-04      0 0.000000e+00      0
## CSI056      0 0.000000e+00 2.351143e-04      0 1.959286e-05      0
## CSI066      0 2.683586e-03 4.792118e-04      0 0.000000e+00      0
##      0tu00126      0tu00127 0tu00128      0tu00129      0tu00130
## CSI002 0.000000e+00 2.179510e-04      0 8.309381e-04 1.362194e-05
## CSI013 0.000000e+00 1.259148e-02      0 6.391614e-05 0.000000e+00
## CSI023 0.000000e+00 4.082049e-05      0 6.123074e-05 0.000000e+00
## CSI034 1.894908e-05 6.442688e-03      0 9.853524e-04 0.000000e+00
## CSI045 3.265093e-05 6.530186e-05      0 1.861103e-03 0.000000e+00
## CSI056 1.379337e-02 3.918572e-05      0 3.989106e-02 0.000000e+00
## CSI066 3.492496e-02 4.466254e-03      0 1.725162e-04 0.000000e+00
##      0tu00131      0tu00132      0tu00133      0tu00134 0tu00135
## CSI002 2.724387e-05 9.535356e-05 0.000000e+00 2.329351e-03      0
## CSI013 0.000000e+00 1.949442e-03 0.000000e+00 1.917484e-03      0
## CSI023 2.041025e-05 0.000000e+00 0.000000e+00 3.673844e-04      0
## CSI034 1.894908e-04 1.364334e-02 1.894908e-05 4.528831e-03      0
## CSI045 3.591602e-04 7.509714e-04 0.000000e+00 9.795279e-05      0
## CSI056 8.875566e-03 0.000000e+00 5.897451e-03 3.307275e-02      0
## CSI066 1.916847e-05 2.051026e-03 0.000000e+00 1.150108e-04      0
##      0tu00136      0tu00137      0tu00138      0tu00139      0tu00140
## CSI002 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI013 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI023 0.000000e+00 2.041025e-05 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034 0.000000e+00 0.000000e+00 1.894908e-05 1.894908e-05 1.894908e-05
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI066 0.000000e+00 3.450325e-04 0.000000e+00 0.000000e+00 0.000000e+00
##      0tu00141      0tu00142      0tu00143      0tu00144      0tu00145
## CSI002 1.294084e-02 1.362194e-05 6.129872e-04 0.0020569125 0.0000000000
## CSI013 9.044134e-03 3.195807e-05 1.757694e-03 0.0049215429 0.0000000000
## CSI023 2.163486e-03 0.000000e+00 1.632820e-04 0.0003265639 0.0000000000
## CSI034 4.130900e-03 5.684725e-05 1.042200e-03 0.0027665662 0.0000000000
## CSI045 1.959056e-04 6.660789e-03 1.306037e-04 0.0029712345 0.0000000000
## CSI056 1.763357e-04 0.000000e+00 5.877858e-05 0.0006269715 0.0003330786
## CSI066 5.175487e-04 1.040848e-02 6.900650e-04 0.0003833694 0.0009200866
##      0tu00146 0tu00147      0tu00148      0tu00149      0tu00150
## CSI002      0      0 1.294084e-03 1.362194e-05 0.000000e+00
## CSI013      0      0 4.601962e-03 0.000000e+00 0.000000e+00
## CSI023      0      0 6.123074e-05 0.000000e+00 0.000000e+00
## CSI034      0      0 1.771739e-02 0.000000e+00 0.000000e+00
## CSI045      0      0 3.265093e-05 0.000000e+00 0.000000e+00
## CSI056      0      0 1.959286e-05 0.000000e+00 0.000000e+00
## CSI066      0      0 9.584236e-05 0.000000e+00 0.000000e+00
##      0tu00151      0tu00152      0tu00153      0tu00154      0tu00155
## CSI002 1.634632e-03 2.261242e-03 0.000000e+00 0.000000e+00 0.000000e+00
## CSI013 6.391614e-05 2.940143e-03 0.000000e+00 0.000000e+00 0.000000e+00
## CSI023 5.631187e-02 2.857434e-04 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034 8.716579e-04 6.158452e-03 1.894908e-05 1.894908e-05 0.000000e+00
## CSI045 0.000000e+00 8.162732e-04 0.000000e+00 3.265093e-05 6.530186e-05
## CSI056 0.000000e+00 1.273536e-03 0.000000e+00 0.000000e+00 0.000000e+00
## CSI066 0.000000e+00 1.744331e-03 0.000000e+00 3.833694e-05 0.000000e+00
##      0tu00156      0tu00157      0tu00158      0tu00159      0tu00160
## CSI002 0.029750310 4.086581e-05 0.0001634632 4.372642e-03 3.119424e-03
## CSI013 0.002269023 0.000000e+00 0.0010865744 1.009875e-02 1.629862e-03

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## CSI023 0.002857434 1.673640e-03 0.0167159914 6.123074e-04 5.510766e-04
## CSI034 0.001042200 0.000000e+00 0.0002842363 7.958615e-03 9.304000e-03
## CSI045 0.000000000 1.306037e-04 0.0003265093 4.571130e-04 1.044830e-03
## CSI056 0.000000000 0.000000e+00 0.0000000000 1.018829e-03 5.094144e-04
## CSI066 0.000000000 1.571815e-03 0.0000000000 7.667389e-05 3.450325e-04
##      0tu00161      0tu00162      0tu00163      0tu00164 0tu00165
## CSI002 0.000000e+00 0.0000000000 1.319966e-02 0.000000e+00      0
## CSI013 0.000000e+00 0.0001917484 1.738519e-02 0.000000e+00      0
## CSI023 0.000000e+00 0.0000000000 2.979896e-03 0.000000e+00      0
## CSI034 0.000000e+00 0.0000000000 2.218938e-02 0.000000e+00      0
## CSI045 0.000000e+00 0.0000000000 6.530186e-05 0.000000e+00      0
## CSI056 0.000000e+00 0.0000000000 7.837144e-05 0.000000e+00      0
## CSI066 0.000000e+00 0.0000000000 1.916847e-05 0.000000e+00      0
##      0tu00166      0tu00167      0tu00168      0tu00169      0tu00170
## CSI002 0.000000e+00 0.000000e+00 0.000000e+00 6.334201e-03 1.437114e-02
## CSI013 0.000000e+00 0.000000e+00 0.000000e+00 4.058675e-03 8.692595e-03
## CSI023 2.041025e-05 3.000306e-03 0.000000e+00 2.408409e-03 9.592816e-04
## CSI034 0.000000e+00 3.221344e-04 0.000000e+00 1.584143e-02 1.557615e-02
## CSI045 0.000000e+00 2.612074e-04 0.000000e+00 4.832337e-03 9.795279e-05
## CSI056 0.000000e+00 2.703815e-03 0.000000e+00 3.918572e-05 7.641216e-04
## CSI066 0.000000e+00 9.584236e-05 0.000000e+00 9.967605e-04 3.450325e-04
##      0tu00171      0tu00172      0tu00173      0tu00174 0tu00175
## CSI002 0.000000e+00 0.000000e+00 0.000000e+00 1.362194e-05      0
## CSI013 3.195807e-05 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI034 0.000000e+00 0.000000e+00 0.000000e+00 1.894908e-05      0
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00 6.530186e-05      0
## CSI056 0.000000e+00 5.877858e-05 3.918572e-05 7.249358e-04      0
## CSI066 0.000000e+00 3.331480e-02 0.000000e+00 3.450325e-04      0
##      0tu00176      0tu00177      0tu00178      0tu00179 0tu00180
## CSI002 0.000000e+00 0.0012804621 2.724387e-05 0.000000e+00      0
## CSI013 0.000000e+00 0.0028442683 0.000000e+00 0.000000e+00      0
## CSI023 0.000000e+00 0.0004082049 2.041025e-05 0.000000e+00      0
## CSI034 0.000000e+00 0.0039224603 1.894908e-05 0.000000e+00      0
## CSI045 0.000000e+00 0.0010448297 1.632546e-03 3.265093e-05      0
## CSI056 0.000000e+00 0.0022923647 1.959286e-05 1.959286e-05      0
## CSI066 0.000000e+00 0.0020893634 0.000000e+00 0.000000e+00      0
##      0tu00181 0tu00182      0tu00183 0tu00184 0tu00185      0tu00186
## CSI002      0      0 1.212352e-03      0      0 0.0057348354
## CSI013      0      0 0.000000e+00      0      0 0.0066153207
## CSI023      0      0 6.123074e-05      0      0 0.0006123074
## CSI034      0      0 1.894908e-05      0      0 0.0061584522
## CSI045      0      0 8.162732e-04      0      0 0.0000000000
## CSI056      0      0 0.000000e+00      0      0 0.0000000000
## CSI066      0      0 1.725162e-04      0      0 0.0000000000
##      0tu00187      0tu00188      0tu00189      0tu00190      0tu00191
## CSI002      0 2.683522e-03 3.133045e-04 0.000000e+00 5.448775e-05
## CSI013      0 4.793711e-04 0.000000e+00 0.000000e+00 6.391614e-05
## CSI023      0 1.626697e-02 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034      0 0.000000e+00 4.737271e-04 0.000000e+00 3.600326e-04
## CSI045      0 7.509714e-04 1.306037e-04 0.000000e+00 0.000000e+00
## CSI056      0 1.959286e-05 1.116793e-03 1.959286e-05 0.000000e+00
## CSI066      0 0.000000e+00 3.833694e-04 1.916847e-05 0.000000e+00
##      0tu00192      0tu00193      0tu00194 0tu00195      0tu00196

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## CSI002 1.362194e-05 1.362194e-05 0.000000e+00 0 6.266091e-04
## CSI013 4.474130e-04 0.000000e+00 0.000000e+00 0 1.182449e-03
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00 0 1.632820e-04
## CSI034 3.789817e-04 0.000000e+00 0.000000e+00 0 1.951756e-03
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00 0 2.938584e-04
## CSI056 5.172515e-03 0.000000e+00 3.722643e-04 0 0.000000e+00
## CSI066 1.322625e-03 0.000000e+00 7.667389e-05 0 7.667389e-05
##      0tu00197      0tu00198      0tu00199      0tu00200      0tu00201
## CSI002      0 0.0000000000 0.000000e+00 0.000000e+00 2.179510e-03
## CSI013      0 0.0000000000 0.000000e+00 3.195807e-05 1.597904e-03
## CSI023      0 0.0000000000 4.082049e-05 2.653332e-04 4.082049e-05
## CSI034      0 0.0001705418 1.004301e-03 1.326436e-04 2.596024e-03
## CSI045      0 0.0260227903 0.000000e+00 0.000000e+00 5.224149e-04
## CSI056      0 0.0165755599 0.000000e+00 0.000000e+00 7.053430e-04
## CSI066      0 0.0039870421 0.000000e+00 1.916847e-05 8.434128e-04
##      0tu00202      0tu00203      0tu00204 0tu00205      0tu00206
## CSI002 0.000000e+00 1.264116e-02 0.0013077059 0 6.810968e-05
## CSI013 0.000000e+00 1.367805e-02 0.0007350356 0 1.246365e-03
## CSI023 6.735381e-04 1.020512e-03 0.0000000000 0 2.041025e-05
## CSI034 4.547780e-04 1.068728e-02 0.0008337597 0 9.474542e-04
## CSI045 0.000000e+00 0.000000e+00 0.0034936494 0 6.530186e-05
## CSI056 1.959286e-05 0.000000e+00 0.0003134858 0 1.959286e-05
## CSI066 0.000000e+00 1.533478e-04 0.0033736510 0 3.833694e-05
##      0tu00207 0tu00208      0tu00209      0tu00210      0tu00211
## CSI002 1.362194e-05      0 0.000000e+00 1.362194e-05 4.222800e-04
## CSI013 0.000000e+00      0 0.000000e+00 3.195807e-05 0.000000e+00
## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034 0.000000e+00      0 0.000000e+00 9.474542e-05 4.737271e-03
## CSI045 0.000000e+00      0 0.000000e+00 7.183204e-04 1.306037e-04
## CSI056 1.959286e-05      0 0.000000e+00 2.938929e-04 0.000000e+00
## CSI066 0.000000e+00      0 3.833694e-05 7.284019e-04 3.833694e-05
##      0tu00212      0tu00213      0tu00214      0tu00215 0tu00216
## CSI002 0.000000e+00 0.000000e+00 7.219626e-04 1.362194e-05 0
## CSI013 0.000000e+00 0.000000e+00 2.173149e-03 0.000000e+00 0
## CSI023 0.000000e+00 0.000000e+00 2.041025e-05 2.041025e-05 0
## CSI034 0.000000e+00 0.000000e+00 1.326436e-03 1.894908e-05 0
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0
## CSI056 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0
## CSI066 0.000000e+00 0.000000e+00 5.750542e-05 0.000000e+00 0
##      0tu00217      0tu00218      0tu00219 0tu00220      0tu00221
## CSI002 0.0000000000 1.389438e-03 3.405484e-04 0 2.724387e-05
## CSI013 0.0000000000 1.949442e-03 1.661820e-03 0 0.000000e+00
## CSI023 0.0000000000 6.939484e-04 6.123074e-05 0 0.000000e+00
## CSI034 0.0000000000 2.179145e-03 3.600326e-04 0 0.000000e+00
## CSI045 0.0000000000 6.530186e-05 3.265093e-05 0 0.000000e+00
## CSI056 0.0000000000 1.018829e-03 3.918572e-05 0 0.000000e+00
## CSI066 0.0082616113 1.073434e-03 0.000000e+00 0 0.000000e+00
##      0tu00222      0tu00223      0tu00224      0tu00225      0tu00226
## CSI002 0.0009535356 1.334950e-03 5.448775e-05 0.0000000000 0.000000e+00
## CSI013 0.0024607715 1.278323e-03 4.474130e-04 0.0000000000 0.000000e+00
## CSI023 0.0006123074 2.041025e-05 0.000000e+00 0.0000000000 0.000000e+00
## CSI034 0.0022359919 3.865613e-03 1.515927e-04 0.0000000000 0.000000e+00
## CSI045 0.0002285565 3.265093e-05 0.000000e+00 0.0000000000 0.000000e+00
## CSI056 0.0015674288 2.116029e-03 3.330786e-03 0.0053292580 1.959286e-05

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## CSI066 0.0037186835 1.916847e-05 1.725162e-03 0.0001150108 0.000000e+00
##      0tu00227 0tu00228      0tu00229 0tu00230 0tu00231      0tu00232
## CSI002 0.000000e+00      0 8.173162e-05      0      0 0.000000e+00
## CSI013 0.000000e+00      0 7.989518e-04      0      0 0.000000e+00
## CSI023 0.000000e+00      0 2.653332e-04      0      0 2.653332e-04
## CSI034 0.000000e+00      0 1.080098e-03      0      0 0.000000e+00
## CSI045 0.000000e+00      0 2.285565e-04      0      0 0.000000e+00
## CSI056 0.000000e+00      0 4.310429e-04      0      0 0.000000e+00
## CSI066 0.000000e+00      0 7.667389e-05      0      0 1.725162e-04
##      0tu00233      0tu00234 0tu00235      0tu00236      0tu00237
## CSI002 2.179510e-04 5.448775e-05      0 4.086581e-04 1.593767e-03
## CSI013 1.917484e-04 2.237065e-04      0 0.000000e+00 4.474130e-04
## CSI023 4.082049e-05 0.000000e+00      0 0.000000e+00 4.082049e-05
## CSI034 1.894908e-04 2.463381e-04      0 0.000000e+00 3.884562e-03
## CSI045 1.959056e-04 0.000000e+00      0 0.000000e+00 6.530186e-05
## CSI056 6.465644e-04 9.796430e-05      0 0.000000e+00 2.880150e-03
## CSI066 1.456804e-03 2.875271e-04      0 0.000000e+00 5.558857e-04
##      0tu00238      0tu00239 0tu00240      0tu00241      0tu00242
## CSI002      0 0.000000000      0 1.362194e-05 0.000000e+00
## CSI013      0 0.000000000      0 0.000000e+00 0.000000e+00
## CSI023      0 0.000000000      0 0.000000e+00 0.000000e+00
## CSI034      0 0.000000000      0 0.000000e+00 0.000000e+00
## CSI045      0 0.000000000      0 0.000000e+00 3.265093e-05
## CSI056      0 0.000000000      0 0.000000e+00 1.959286e-05
## CSI066      0 0.008894171      0 1.916847e-05 7.667389e-05
##      0tu00243      0tu00244      0tu00245      0tu00246      0tu00247
## CSI002 0.000000e+00 0.0000000000 0.000000e+00 0.000000e+00 0.000000e+00
## CSI013 0.000000e+00 0.0001597904 0.000000e+00 0.000000e+00 0.000000e+00
## CSI023 0.000000e+00 0.0033472803 2.041025e-05 0.000000e+00 0.000000e+00
## CSI034 0.000000e+00 0.0003221344 0.000000e+00 1.894908e-05 0.000000e+00
## CSI045 6.530186e-05 0.0002612074 0.000000e+00 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00 0.0000000000 0.000000e+00 0.000000e+00 2.743000e-04
## CSI066 1.916847e-05 0.0006325596 0.000000e+00 0.000000e+00 3.642010e-03
##      0tu00248 0tu00249 0tu00250      0tu00251 0tu00252      0tu00253
## CSI002 0.000000e+00      0      0 5.448775e-05      0 8.990478e-04
## CSI013 6.391614e-05      0      0 2.237065e-04      0 2.237065e-04
## CSI023 0.000000e+00      0      0 0.000000e+00      0 1.836922e-04
## CSI034 1.839956e-02      0      0 2.463381e-04      0 6.821670e-04
## CSI045 2.122310e-03      0      0 3.265093e-05      0 9.795279e-05
## CSI056 3.134858e-04      0      0 0.000000e+00      0 5.290072e-04
## CSI066 2.319385e-03      0      0 6.133911e-04      0 2.875271e-04
##      0tu00254      0tu00255      0tu00256      0tu00257      0tu00258
## CSI002      0 0.000000e+00 1.362194e-05 5.040117e-04 1.907071e-04
## CSI013      0 0.000000e+00 6.391614e-05 6.711195e-04 6.391614e-04
## CSI023      0 0.000000e+00 4.082049e-05 1.632820e-04 1.836922e-04
## CSI034      0 1.894908e-05 1.136945e-04 1.819112e-03 8.148106e-04
## CSI045      0 1.632546e-04 1.338688e-03 0.000000e+00 2.285565e-04
## CSI056      0 3.605086e-03 0.000000e+00 1.959286e-05 7.249358e-04
## CSI066      0 5.558857e-04 8.779160e-03 0.000000e+00 3.833694e-05
##      0tu00259 0tu00260 0tu00261      0tu00262      0tu00263      0tu00264
## CSI002      0      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI013      0      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI023      0      0      0 0.000000e+00 2.041025e-05 0.000000e+00
## CSI034      0      0      0 0.000000e+00 0.000000e+00 2.273890e-04

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## CSI045      0      0      0 0.000000e+00 0.000000e+00 6.530186e-04
## CSI056      0      0      0 4.016536e-03 0.000000e+00 5.681930e-04
## CSI066      0      0      0 2.549407e-03 0.000000e+00 4.983803e-04
##      0tu00265      0tu00266      0tu00267      0tu00268      0tu00269
## CSI002 0.000000e+00 1.239596e-03 0.000000e+00 0.0002179510 9.712441e-03
## CSI013 0.000000e+00 6.391614e-05 3.195807e-05 0.0034514717 2.524688e-03
## CSI023 0.000000e+00 1.020512e-04 0.000000e+00 0.0000000000 8.164098e-05
## CSI034 1.894908e-05 3.789817e-05 0.000000e+00 0.0004737271 9.474542e-05
## CSI045 6.530186e-05 9.795279e-05 0.000000e+00 0.0003265093 9.795279e-05
## CSI056 0.000000e+00 5.877858e-05 0.000000e+00 0.0022531789 5.877858e-05
## CSI066 0.000000e+00 1.916847e-04 0.000000e+00 0.0005558857 9.584236e-04
##      0tu00270      0tu00271      0tu00272 0tu00273      0tu00274
## CSI002 1.362194e-02 0.000000e+00 0.000000e+00      0 0.0033918623
## CSI013 6.263782e-03 0.000000e+00 0.000000e+00      0 0.0043143396
## CSI023 9.184611e-04 1.020512e-04 0.000000e+00      0 0.0007959996
## CSI034 3.638224e-03 0.000000e+00 0.000000e+00      0 0.0075606844
## CSI045 3.265093e-05 3.265093e-05 0.000000e+00      0 0.0000000000
## CSI056 0.000000e+00 0.000000e+00 1.959286e-05      0 0.0002743000
## CSI066 2.683586e-04 7.667389e-05 0.000000e+00      0 0.0003066955
##      0tu00275      0tu00276      0tu00277      0tu00278      0tu00279
## CSI002 2.724387e-05 0.0000000000 5.993652e-04 0.000000e+00 0.000000e+00
## CSI013 0.000000e+00 0.0000000000 5.752453e-04 0.000000e+00 0.000000e+00
## CSI023 0.000000e+00 0.0000000000 2.857434e-04 0.000000e+00 2.041025e-05
## CSI034 1.894908e-04 0.0001894908 5.248896e-03 0.000000e+00 3.789817e-05
## CSI045 3.265093e-05 0.0000000000 9.795279e-05 3.265093e-05 0.000000e+00
## CSI056 0.000000e+00 0.0000000000 2.135622e-03 5.877858e-05 2.547072e-04
## CSI066 0.000000e+00 0.0000000000 5.750542e-05 0.000000e+00 1.399298e-03
##      0tu00280      0tu00281      0tu00282 0tu00283      0tu00284
## CSI002 0.0009807794 3.541704e-04 0.000000e+00      0 0.000000e+00
## CSI013 0.0006711195 5.113291e-04 0.000000e+00      0 0.000000e+00
## CSI023 0.0000000000 2.041025e-05 0.000000e+00      0 0.000000e+00
## CSI034 0.0006063707 2.463381e-04 0.000000e+00      0 0.000000e+00
## CSI045 0.0001306037 8.815751e-04 1.012179e-03      0 0.000000e+00
## CSI056 0.0006661573 5.662337e-03 1.959286e-05      0 0.000000e+00
## CSI066 0.0002683586 1.303456e-03 8.434128e-04      0 0.000000e+00
##      0tu00285      0tu00286 0tu00287      0tu00288      0tu00289
## CSI002      0 0.000000e+00      0 0.0006538530 5.448775e-05
## CSI013      0 0.000000e+00      0 0.0017257358 3.195807e-05
## CSI023      0 0.000000e+00      0 0.0001428717 0.000000e+00
## CSI034      0 0.000000e+00      0 0.0004358289 1.705418e-04
## CSI045      0 0.000000e+00      0 0.0003591602 2.285565e-04
## CSI056      0 1.959286e-05      0 0.0007837144 2.311958e-03
## CSI066      0 0.000000e+00      0 0.0003258640 0.000000e+00
##      0tu00290      0tu00291      0tu00292 0tu00293      0tu00294
## CSI002 0.000000e+00 1.089755e-03 2.220376e-03      0 0.0000000000
## CSI013 0.000000e+00 2.077275e-03 8.820428e-03      0 0.0000000000
## CSI023 2.041025e-05 0.000000e+00 8.164098e-04      0 0.0000000000
## CSI034 0.000000e+00 8.129157e-03 2.217043e-03      0 0.0000000000
## CSI045 0.000000e+00 3.265093e-05 0.000000e+00      0 0.0000000000
## CSI056 0.000000e+00 5.877858e-05 0.000000e+00      0 0.0000000000
## CSI066 0.000000e+00 2.491901e-04 0.000000e+00      0 0.0267016811
##      0tu00295 0tu00296      0tu00297      0tu00298      0tu00299 0tu00300
## CSI002      0      0 0.003500838 3.677923e-04 0.000000e+00      0
## CSI013      0      0 0.000000000 5.432872e-04 0.000000e+00      0

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## CSI023      0      0 0.000000000 6.123074e-05 0.000000e+00      0
## CSI034      0      0 0.000000000 3.789817e-04 1.894908e-05      0
## CSI045      0      0 0.000000000 4.244621e-04 0.000000e+00      0
## CSI056      0      0 0.000000000 2.292365e-03 0.000000e+00      0
## CSI066      0      0 0.000000000 7.648220e-03 0.000000e+00      0
##      0tu00301      0tu00302      0tu00303 0tu00304      0tu00305
## CSI002 7.492065e-04 1.362194e-05 4.086581e-04      0 0.0000000000
## CSI013 4.154549e-04 0.000000e+00 1.086574e-03      0 0.0000000000
## CSI023 3.735075e-03 2.041025e-05 0.000000e+00      0 0.0000000000
## CSI034 1.117996e-03 1.894908e-05 4.547780e-04      0 0.0000000000
## CSI045 6.530186e-05 1.959056e-03 9.795279e-05      0 0.0000000000
## CSI056 3.918572e-05 1.220635e-02 8.816787e-04      0 0.0000000000
## CSI066 3.833694e-05 1.322625e-03 1.801836e-03      0 0.0003066955
##      0tu00306 0tu00307 0tu00308      0tu00309 0tu00310      0tu00311
## CSI002      0      0      0 6.810968e-05      0 2.588168e-04
## CSI013      0      0      0 7.989518e-04      0 5.752453e-04
## CSI023      0      0      0 0.000000e+00      0 0.000000e+00
## CSI034      0      0      0 7.579634e-05      0 6.821670e-04
## CSI045      0      0      0 6.203676e-04      0 0.000000e+00
## CSI056      0      0      0 4.114501e-04      0 3.918572e-05
## CSI066      0      0      0 5.942226e-04      0 1.188445e-03
##      0tu00312 0tu00313      0tu00314 0tu00315      0tu00316      0tu00317
## CSI002      0      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI013      0      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI023      0      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI034      0      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI045      0      0 3.265093e-04      0 0.000000e+00 0.000000e+00
## CSI056      0      0 1.782950e-03      0 0.000000e+00 3.918572e-04
## CSI066      0      0 2.683586e-04      0 3.833694e-05 0.000000e+00
##      0tu00318      0tu00319      0tu00320      0tu00321 0tu00322
## CSI002 4.086581e-05 4.141069e-03 6.810968e-03 1.770852e-04      0
## CSI013 1.278323e-04 4.538046e-03 6.807069e-03 1.725736e-03      0
## CSI023 0.000000e+00 3.306460e-03 7.347689e-04 1.020512e-04      0
## CSI034 6.253198e-04 4.471984e-03 1.146420e-02 1.174843e-03      0
## CSI045 3.918111e-04 0.000000e+00 6.530186e-05 2.612074e-04      0
## CSI056 9.600502e-04 0.000000e+00 0.000000e+00 4.212465e-03      0
## CSI066 1.897679e-03 1.533478e-04 9.584236e-05 1.341793e-04      0
##      0tu00323      0tu00324 0tu00325 0tu00326      0tu00327
## CSI002 4.359020e-04 1.130621e-03      0      0 1.362194e-05
## CSI013 7.669937e-04 1.054616e-03      0      0 3.195807e-05
## CSI023 2.041025e-05 4.082049e-05      0      0 0.000000e+00
## CSI034 8.148106e-04 4.168798e-04      0      0 3.789817e-05
## CSI045 3.918111e-04 0.000000e+00      0      0 6.856695e-04
## CSI056 4.506358e-04 2.547072e-04      0      0 7.445287e-04
## CSI066 6.708965e-04 1.150108e-04      0      0 2.051026e-03
##      0tu00328 0tu00329      0tu00330 0tu00331 0tu00332 0tu00333
## CSI002 0.000000e+00      0 2.778875e-03      0      0      0
## CSI013 0.000000e+00      0 5.752453e-04      0      0      0
## CSI023 0.000000e+00      0 2.041025e-04      0      0      0
## CSI034 0.000000e+00      0 3.448733e-03      0      0      0
## CSI045 0.000000e+00      0 6.530186e-05      0      0      0
## CSI056 0.000000e+00      0 5.877858e-05      0      0      0
## CSI066 0.000000e+00      0 0.000000e+00      0      0      0
##      0tu00334      0tu00335      0tu00336 0tu00337 0tu00338 0tu00339

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##	CSI002	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI013	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	2.041025e-05	0	0	0
##	CSI034	0.000000e+00	1.894908e-05	0.000000e+00	0	0	0
##	CSI045	3.265093e-04	0.000000e+00	0.000000e+00	0	0	0
##	CSI056	1.449872e-03	0.000000e+00	0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##		0tu00340	0tu00341	0tu00342	0tu00343	0tu00344	
##	CSI002	0.000000e+00	0	1.144243e-03	0.000000e+00	4.767678e-04	
##	CSI013	0.000000e+00	0	4.793711e-04	0.000000e+00	8.628679e-04	
##	CSI023	0.000000e+00	0	8.368201e-04	0.000000e+00	1.428717e-04	
##	CSI034	0.000000e+00	0	2.652872e-04	0.000000e+00	8.148106e-04	
##	CSI045	3.265093e-05	0	3.265093e-05	0.000000e+00	0.000000e+00	
##	CSI056	0.000000e+00	0	1.959286e-05	0.000000e+00	7.837144e-05	
##	CSI066	0.000000e+00	0	3.833694e-05	1.916847e-05	3.833694e-05	
##		0tu00345	0tu00346	0tu00347	0tu00348	0tu00349	0tu00350
##	CSI002	0.000000e+00	0	0	8.173162e-04	0	0.000000e+00
##	CSI013	1.597904e-04	0	0	7.350356e-04	0	9.587421e-05
##	CSI023	0.000000e+00	0	0	2.041025e-05	0	1.065415e-02
##	CSI034	0.000000e+00	0	0	5.684725e-04	0	0.000000e+00
##	CSI045	0.000000e+00	0	0	6.530186e-05	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	4.937401e-03	0	1.959286e-05
##	CSI066	0.000000e+00	0	0	1.341793e-04	0	0.000000e+00
##		0tu00351	0tu00352	0tu00353	0tu00354	0tu00355	
##	CSI002	0.000000e+00	6.129872e-04	8.445601e-04	0.000000e+00	0.0000000000	
##	CSI013	0.000000e+00	6.551405e-03	2.109233e-03	6.072033e-04	0.0000000000	
##	CSI023	0.000000e+00	1.020512e-04	6.123074e-04	0.000000e+00	0.0000000000	
##	CSI034	0.000000e+00	1.534876e-03	9.474542e-05	3.410835e-04	0.0000000000	
##	CSI045	0.000000e+00	3.265093e-05	0.000000e+00	0.000000e+00	0.0001306037	
##	CSI056	0.000000e+00	1.175572e-04	6.269715e-04	1.959286e-05	0.0001763357	
##	CSI066	1.916847e-05	3.833694e-05	1.341793e-04	0.000000e+00	0.0003642010	
##		0tu00356	0tu00357	0tu00358	0tu00359	0tu00360	
##	CSI002	0.0000000000	2.724387e-05	0.000000e+00	0.000000e+00	1.062511e-03	
##	CSI013	0.0000000000	3.515388e-04	0.000000e+00	0.000000e+00	1.150491e-03	
##	CSI023	0.0000000000	6.123074e-05	0.000000e+00	0.000000e+00	6.531279e-04	
##	CSI034	0.0000000000	3.789817e-04	0.000000e+00	0.000000e+00	2.444432e-03	
##	CSI045	0.0000000000	1.632546e-04	9.795279e-05	0.000000e+00	2.285565e-04	
##	CSI056	0.0000000000	7.014244e-03	2.743000e-04	2.155215e-04	7.837144e-05	
##	CSI066	0.0000000000	0.000000e+00	6.133911e-04	1.916847e-05	2.491901e-04	
##		0tu00361	0tu00362	0tu00363	0tu00364	0tu00365	
##	CSI002	0.000000e+00	0.0000000000	0.000000e+00	0.000000e+00	0	
##	CSI013	6.391614e-05	0.0000000000	9.587421e-05	3.195807e-05	0	
##	CSI023	2.041025e-05	0.0000000000	0.000000e+00	0.000000e+00	0	
##	CSI034	0.000000e+00	0.0000000000	3.789817e-05	0.000000e+00	0	
##	CSI045	6.530186e-05	0.006889346	0.000000e+00	1.149313e-02	0	
##	CSI056	5.094144e-03	0.0000000000	0.000000e+00	5.094144e-03	0	
##	CSI066	1.021680e-02	0.0000000000	0.000000e+00	1.236366e-02	0	
##		0tu00366	0tu00367	0tu00368	0tu00369	0tu00370	
##	CSI002	6.810968e-04	0.000000e+00	6.402310e-04	0	0	
##	CSI013	7.510147e-03	0.000000e+00	2.109233e-03	0	0	
##	CSI023	7.143586e-04	0.000000e+00	5.510766e-04	0	0	
##	CSI034	1.155894e-03	0.000000e+00	4.301442e-03	0	0	
##	CSI045	3.265093e-05	4.244621e-03	3.265093e-05	0	0	
##	CSI056	3.526715e-04	1.969082e-02	1.959286e-05	0	0	

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## CSI066 1.533478e-04 0.000000e+00 2.108532e-04 0 0
##          0tu00371 0tu00372 0tu00373 0tu00374 0tu00375
## CSI002 0.000000e+00 0.0001225974 5.448775e-05 0.000000e+00 1.362194e-05
## CSI013 0.000000e+00 0.0069349014 9.267841e-04 0.000000e+00 0.000000e+00
## CSI023 2.041025e-05 0.0019797939 2.041025e-05 0.000000e+00 0.000000e+00
## CSI034 0.000000e+00 0.0051730999 1.610672e-03 0.000000e+00 0.000000e+00
## CSI045 0.000000e+00 0.0000000000 0.000000e+00 0.000000e+00 0.000000e+00
## CSI056 5.681930e-04 0.0001959286 1.371500e-04 1.959286e-05 0.000000e+00
## CSI066 0.000000e+00 0.0000000000 3.852863e-03 0.000000e+00 0.000000e+00
##          0tu00376 0tu00377 0tu00378 0tu00379 0tu00380
## CSI002 0 1.362194e-05 0.0002043291 0 0.000000e+00
## CSI013 0 0.000000e+00 0.0002556646 0 0.000000e+00
## CSI023 0 2.041025e-04 0.0000000000 0 0.000000e+00
## CSI034 0 0.000000e+00 0.0004358289 0 0.000000e+00
## CSI045 0 6.562837e-03 0.0002612074 0 3.265093e-05
## CSI056 0 1.007073e-02 0.0004702286 0 0.000000e+00
## CSI066 0 2.248462e-02 0.0007667389 0 0.000000e+00
##          0tu00381 0tu00382 0tu00383 0tu00384 0tu00385 0tu00386
## CSI002 0.000000e+00 0 0 8.445601e-04 0 0
## CSI013 0.000000e+00 0 0 1.821610e-03 0 0
## CSI023 2.041025e-05 0 0 1.224615e-04 0 0
## CSI034 0.000000e+00 0 0 1.743316e-03 0 0
## CSI045 0.000000e+00 0 0 1.012179e-03 0 0
## CSI056 0.000000e+00 0 0 3.722643e-04 0 0
## CSI066 0.000000e+00 0 0 3.507830e-03 0 0
##          0tu00387 0tu00388 0tu00389 0tu00390 0tu00391 0tu00392
## CSI002 0 0 0.000000e+00 0 0 2.084156e-03
## CSI013 0 0 0.000000e+00 0 0 3.898885e-03
## CSI023 0 0 0.000000e+00 0 0 3.265639e-04
## CSI034 0 0 0.000000e+00 0 0 1.042200e-03
## CSI045 0 0 0.000000e+00 0 0 9.795279e-05
## CSI056 0 0 1.959286e-05 0 0 3.722643e-04
## CSI066 0 0 0.000000e+00 0 0 4.600433e-04
##          0tu00393 0tu00394 0tu00395 0tu00396 0tu00397
## CSI002 0.000000e+00 0 0 2.724387e-05 0.000000e+00
## CSI013 0.000000e+00 0 0 2.109233e-02 0.000000e+00
## CSI023 0.000000e+00 0 0 8.164098e-05 0.000000e+00
## CSI034 0.000000e+00 0 0 1.894908e-05 0.000000e+00
## CSI045 0.000000e+00 0 0 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00 0 0 0.000000e+00 1.959286e-05
## CSI066 0.000000e+00 0 0 0.000000e+00 0.000000e+00
##          0tu00398 0tu00399 0tu00400 0tu00401 0tu00402
## CSI002 1.089755e-04 1.362194e-05 0.000000e+00 0 0.0006266091
## CSI013 7.669937e-04 0.000000e+00 0.000000e+00 0 0.0009587421
## CSI023 4.082049e-05 0.000000e+00 0.000000e+00 0 0.0001224615
## CSI034 3.221344e-04 0.000000e+00 0.000000e+00 0 0.0017622648
## CSI045 8.162732e-04 0.000000e+00 2.840631e-03 0 0.0003265093
## CSI056 1.959286e-05 0.000000e+00 2.703815e-03 0 0.0001371500
## CSI066 0.000000e+00 0.000000e+00 2.300217e-03 0 0.0002683586
##          0tu00403 0tu00404 0tu00405 0tu00406 0tu00407 0tu00408
## CSI002 0 0 0 0 2.588168e-04 0.000000000
## CSI013 0 0 0 0 3.195807e-05 0.000000000
## CSI023 0 0 0 0 0.000000e+00 0.000000000
## CSI034 0 0 0 0 1.894908e-05 0.000000000

```

```

## CSI045      0      0      0      0 0.000000e+00 0.000000000
## CSI056      0      0      0      0 0.000000e+00 0.000000000
## CSI066      0      0      0      0 0.000000e+00 0.001897679
##      0tu00409      0tu00410      0tu00411 0tu00412      0tu00413
## CSI002 6.810968e-04 0.000000e+00 1.198730e-03      0 1.225974e-04
## CSI013 1.214407e-03 3.195807e-05 1.374197e-03      0 6.391614e-05
## CSI023 8.164098e-05 0.000000e+00 4.082049e-05      0 2.041025e-05
## CSI034 2.861312e-03 1.894908e-05 1.136945e-03      0 4.547780e-04
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00      0 9.795279e-05
## CSI056 0.000000e+00 5.877858e-05 3.918572e-04      0 1.214757e-03
## CSI066 0.000000e+00 0.000000e+00 2.491901e-04      0 4.408748e-04
##      0tu00414 0tu00415      0tu00416      0tu00417      0tu00418
## CSI002 3.405484e-04      0 0.000000e+00 0.0000000000 2.302107e-03
## CSI013 6.583363e-03      0 0.000000e+00 0.0000000000 3.515388e-04
## CSI023 2.449230e-04      0 0.000000e+00 0.0000000000 9.388713e-04
## CSI034 1.800163e-03      0 0.000000e+00 0.0000000000 3.031853e-04
## CSI045 0.000000e+00      0 3.852810e-03 0.0025467725 0.000000e+00
## CSI056 1.959286e-05      0 5.877858e-05 0.0005877858 0.000000e+00
## CSI066 3.833694e-05      0 2.491901e-04 0.0026644176 0.000000e+00
##      0tu00419      0tu00420      0tu00421      0tu00422      0tu00423
## CSI002      0 8.173162e-05 5.312555e-04 0.000000e+00 0.000000e+00
## CSI013      0 3.195807e-05 2.205107e-03 0.000000e+00 0.000000e+00
## CSI023      0 1.632820e-04 5.306664e-04 0.000000e+00 0.000000e+00
## CSI034      0 3.410835e-04 3.467682e-03 3.789817e-05 0.000000e+00
## CSI045      0 4.571130e-04 2.938584e-04 1.959056e-04 0.000000e+00
## CSI056      0 1.959286e-05 5.877858e-04 7.837144e-05 0.000000e+00
## CSI066      0 2.894439e-03 1.150108e-04 1.341793e-04 1.916847e-05
##      0tu00424 0tu00425 0tu00426      0tu00427 0tu00428      0tu00429
## CSI002 0.0002451949      0      0 0.000000e+00      0 1.634632e-04
## CSI013 0.0003195807      0      0 0.000000e+00      0 2.556646e-04
## CSI023 0.0000000000      0      0 0.000000e+00      0 2.041025e-05
## CSI034 0.0001326436      0      0 1.894908e-05      0 5.684725e-04
## CSI045 0.0001632546      0      0 0.000000e+00      0 9.795279e-05
## CSI056 0.0004506358      0      0 1.567429e-04      0 6.465644e-04
## CSI066 0.0004217064      0      0 0.000000e+00      0 8.242443e-04
##      0tu00430      0tu00431 0tu00432      0tu00433      0tu00434
## CSI002 1.362194e-04 0.000000e+00      0 0.000000e+00 1.634632e-04
## CSI013 1.470071e-03 0.000000e+00      0 0.000000e+00 1.597904e-04
## CSI023 0.000000e+00 0.000000e+00      0 0.000000e+00 4.082049e-05
## CSI034 2.273890e-03 1.023251e-03      0 0.000000e+00 1.515927e-04
## CSI045 0.000000e+00 0.000000e+00      0 0.000000e+00 3.918111e-04
## CSI056 1.371500e-04 0.000000e+00      0 1.959286e-05 1.763357e-04
## CSI066 0.000000e+00 2.702755e-03      0 0.000000e+00 2.108532e-04
##      0tu00435      0tu00436      0tu00437 0tu00438      0tu00439
## CSI002 2.274863e-03 0.000000e+00 3.119424e-03      0 1.498413e-04
## CSI013 6.455530e-03 0.000000e+00 4.090633e-03      0 9.587421e-05
## CSI023 8.164098e-05 0.000000e+00 7.959996e-04      0 0.000000e+00
## CSI034 4.282493e-03 0.000000e+00 4.604627e-03      0 1.705418e-04
## CSI045 3.265093e-05 0.000000e+00 0.000000e+00      0 6.530186e-05
## CSI056 4.506358e-04 6.857501e-04 3.526715e-04      0 0.000000e+00
## CSI066 2.491901e-04 5.750542e-05 0.000000e+00      0 0.000000e+00
##      0tu00440 0tu00441 0tu00442      0tu00443      0tu00444
## CSI002 6.947188e-04      0      0 0.000000e+00 5.176336e-04
## CSI013 6.072033e-04      0      0 0.000000e+00 1.054616e-03

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##	CSI023	2.041025e-05	0	0	0.000000e+00	1.836922e-04
##	CSI034	8.716579e-04	0	0	0.000000e+00	1.951756e-03
##	CSI045	3.918111e-04	0	0	0.000000e+00	3.265093e-05
##	CSI056	5.486001e-03	0	0	0.000000e+00	1.469465e-03
##	CSI066	1.878510e-03	0	0	1.916847e-05	1.533478e-04
##		0tu00445	0tu00446	0tu00447	0tu00448	0tu00449 0tu00450
##	CSI002	0.000000e+00	0.0000000000	0	0.000000e+00	0
##	CSI013	0.000000e+00	0.0000000000	0	0.000000e+00	0
##	CSI023	0.000000e+00	0.0000000000	0	0.000000e+00	0
##	CSI034	0.000000e+00	0.0000000000	0	0.000000e+00	0
##	CSI045	0.000000e+00	0.0006203676	0	0.000000e+00	0
##	CSI056	1.959286e-05	0.0011951645	0	0.000000e+00	0
##	CSI066	0.000000e+00	0.0011692768	0	1.916847e-05	0
##		0tu00451	0tu00452	0tu00453	0tu00454	0tu00455 0tu00456
##	CSI002	0	0	0	3.405484e-04	2.724387e-05 1.362194e-05
##	CSI013	0	0	0	7.350356e-04	9.587421e-05 3.195807e-05
##	CSI023	0	0	0	5.510766e-04	0.000000e+00 0.000000e+00
##	CSI034	0	0	0	4.926762e-04	9.474542e-05 1.894908e-05
##	CSI045	0	0	0	0.000000e+00	1.044830e-03 1.273386e-03
##	CSI056	0	0	0	0.000000e+00	1.567429e-04 1.959286e-05
##	CSI066	0	0	0	3.833694e-05	1.150108e-03 7.820736e-03
##		0tu00457	0tu00458	0tu00459	0tu00460	0tu00461 0tu00462
##	CSI002	0	0	0.000000e+00	0	0.000000e+00 4.086581e-04
##	CSI013	0	0	0.000000e+00	0	0.000000e+00 9.587421e-05
##	CSI023	0	0	0.000000e+00	0	2.041025e-05 0.000000e+00
##	CSI034	0	0	0.000000e+00	0	3.789817e-05 8.337597e-04
##	CSI045	0	0	3.265093e-05	0	0.000000e+00 7.509714e-04
##	CSI056	0	0	0.000000e+00	0	0.000000e+00 4.506358e-04
##	CSI066	0	0	5.750542e-05	0	1.916847e-05 2.338554e-03
##		0tu00463	0tu00464	0tu00465	0tu00466	0tu00467 0tu00468
##	CSI002	0	0	0	0.000000e+00	9.262917e-04 0
##	CSI013	0	0	0	0.000000e+00	1.278323e-04 0
##	CSI023	0	0	0	0.000000e+00	1.020512e-04 0
##	CSI034	0	0	0	0.000000e+00	1.459079e-03 0
##	CSI045	0	0	0	0.000000e+00	0.000000e+00 0
##	CSI056	0	0	0	1.959286e-05	0.000000e+00 0
##	CSI066	0	0	0	0.000000e+00	0.000000e+00 0
##		0tu00469	0tu00470	0tu00471	0tu00472	0tu00473
##	CSI002	0	0.000000e+00	3.541704e-04	0.000000e+00	0
##	CSI013	0	9.587421e-05	1.278323e-04	0.000000e+00	0
##	CSI023	0	0.000000e+00	4.082049e-05	0.000000e+00	0
##	CSI034	0	0.000000e+00	1.894908e-04	0.000000e+00	0
##	CSI045	0	0.000000e+00	0.000000e+00	0.000000e+00	0
##	CSI056	0	1.786869e-02	2.547072e-04	0.000000e+00	0
##	CSI066	0	0.000000e+00	0.000000e+00	1.916847e-05	0
##		0tu00474	0tu00475	0tu00476	0tu00477	0tu00478 0tu00479
##	CSI002	3.269265e-04	0.000000e+00	0	0	0 0
##	CSI013	3.515388e-04	6.391614e-05	0	0	0 0
##	CSI023	2.041025e-05	9.592816e-04	0	0	0 0
##	CSI034	4.737271e-04	5.684725e-05	0	0	0 0
##	CSI045	1.959056e-04	8.489242e-04	0	0	0 0
##	CSI056	1.959286e-05	1.449872e-03	0	0	0 0
##	CSI066	2.012690e-03	1.725162e-04	0	0	0 0
##		0tu00480	0tu00481	0tu00482	0tu00483	0tu00484

##	CSI002	1.362194e-04	0.000000e+00	0	3.814142e-04	1.362194e-05
##	CSI013	0.000000e+00	2.556646e-04	0	1.597904e-04	0.000000e+00
##	CSI023	6.123074e-05	4.898459e-04	0	4.082049e-05	0.000000e+00
##	CSI034	9.474542e-05	2.160196e-03	0	8.337597e-04	0.000000e+00
##	CSI045	7.836223e-04	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI056	0.000000e+00	0.000000e+00	0	5.094144e-04	0.000000e+00
##	CSI066	5.942226e-03	1.341793e-04	0	4.408748e-04	0.000000e+00
##		0tu00485	0tu00486	0tu00487	0tu00488	0tu00489
##	CSI002	0.000000e+00	0.000000e+00	0.000000e+00	0.0000000000	0
##	CSI013	0.000000e+00	0.000000e+00	0.000000e+00	0.0000000000	0
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0.0000000000	0
##	CSI034	3.789817e-05	0.000000e+00	0.000000e+00	0.0000000000	0
##	CSI045	3.265093e-04	0.000000e+00	0.000000e+00	0.0007836223	0
##	CSI056	5.877858e-05	6.994651e-03	0.000000e+00	0.0028997433	0
##	CSI066	1.245951e-03	0.000000e+00	0.000000e+00	0.0033353141	0
##		0tu00490	0tu00491	0tu00492	0tu00493	0tu00494
##	CSI002	0.000000e+00	0.000000e+00	0	0	0 0.000000e+00
##	CSI013	0.000000e+00	0.000000e+00	0	0	0 0.000000e+00
##	CSI023	0.000000e+00	0.000000e+00	0	0	0 0.000000e+00
##	CSI034	0.000000e+00	1.894908e-05	0	0	0 0.000000e+00
##	CSI045	0.000000e+00	0.000000e+00	0	0	0 0.000000e+00
##	CSI056	1.959286e-05	0.000000e+00	0	0	0 1.959286e-05
##	CSI066	0.000000e+00	0.000000e+00	0	0	0 0.000000e+00
##		0tu00496	0tu00497	0tu00498	0tu00499	0tu00500
##	CSI002	0	4.086581e-05	0	0	0 0.0000000000
##	CSI013	0	3.195807e-05	0	0	0 0.0000000000
##	CSI023	0	0.000000e+00	0	0	0 0.0000000000
##	CSI034	0	1.326436e-04	0	0	0 0.0000000000
##	CSI045	0	0.000000e+00	0	0	0 0.0000000000
##	CSI056	0	1.959286e-05	0	0	0 0.002194400
##	CSI066	0	0.000000e+00	0	0	0 0.0000000000
##		0tu00502	0tu00503	0tu00504	0tu00505	0tu00506
##	CSI002	0	0	2.451949e-04	0	3.133045e-04
##	CSI013	0	0	1.533987e-03	0	1.054616e-03
##	CSI023	0	0	1.020512e-04	0	1.020512e-04
##	CSI034	0	0	2.425483e-03	0	1.970705e-03
##	CSI045	0	0	9.795279e-05	0	9.795279e-05
##	CSI056	0	0	1.939693e-03	0	1.880915e-03
##	CSI066	0	0	3.066955e-04	0	7.284019e-04
##		0tu00508	0tu00509	0tu00510	0tu00511	0tu00512
##	CSI002	0	0	1.089755e-04	0	0
##	CSI013	0	0	2.876226e-04	0	0
##	CSI023	0	0	0.000000e+00	0	0
##	CSI034	0	0	5.684725e-05	0	0
##	CSI045	0	0	3.787508e-03	0	0
##	CSI056	0	0	8.620859e-04	0	0
##	CSI066	0	0	3.335314e-03	0	0
##		0tu00514	0tu00515	0tu00516	0tu00517	0tu00518
##	CSI002	0.000000e+00	2.996826e-04	0	0	0 0.000000e+00
##	CSI013	0.000000e+00	3.195807e-04	0	0	0 0.000000e+00
##	CSI023	0.000000e+00	2.041025e-05	0	0	0 0.000000e+00
##	CSI034	0.000000e+00	1.269589e-03	0	0	0 0.000000e+00
##	CSI045	0.000000e+00	1.959056e-04	0	0	0 0.000000e+00
##	CSI056	0.000000e+00	1.959286e-04	0	0	0 0.000000e+00

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## CSI066 0.000000e+00 1.533478e-04 0 0 0.000000e+00
## 0tu00519 0tu00520 0tu00521 0tu00522 0tu00523
## CSI002 0.0000000000 0.000000e+00 0 9.944014e-04 0
## CSI013 0.0007669937 0.000000e+00 0 6.072033e-04 0
## CSI023 0.0000000000 0.000000e+00 0 8.164098e-05 0
## CSI034 0.0000000000 1.894908e-05 0 4.926762e-04 0
## CSI045 0.0001632546 9.795279e-05 0 9.795279e-05 0
## CSI056 0.0003722643 1.910304e-02 0 5.094144e-04 0
## CSI066 0.0002300217 2.491901e-04 0 3.833694e-04 0
## 0tu00524 0tu00525 0tu00526 0tu00527 0tu00528
## CSI002 4.604215e-03 3.582569e-03 0 0.000000e+00 1.048889e-03
## CSI013 2.556646e-03 4.985459e-03 0 3.195807e-05 2.940143e-03
## CSI023 5.306664e-04 5.306664e-04 0 0.000000e+00 8.164098e-05
## CSI034 3.278191e-03 7.011161e-04 0 0.000000e+00 3.107650e-03
## CSI045 3.265093e-05 0.000000e+00 0 0.000000e+00 0.000000e+00
## CSI056 1.959286e-05 0.000000e+00 0 0.000000e+00 4.114501e-04
## CSI066 0.000000e+00 0.000000e+00 0 0.000000e+00 7.092335e-04
## 0tu00529 0tu00530 0tu00531 0tu00532 0tu00533
## CSI002 4.086581e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI013 1.597904e-04 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034 1.705418e-04 1.894908e-05 0.000000e+00 0.000000e+00 0.000000e+00
## CSI045 3.265093e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI056 3.722643e-04 0.000000e+00 1.959286e-05 2.174808e-03 0.000000e+00
## CSI066 0.000000e+00 0.000000e+00 0.000000e+00 1.916847e-05 0.000000e+00
## 0tu00534 0tu00535 0tu00536 0tu00537 0tu00538
## CSI002 5.176336e-04 0.000000e+00 5.721213e-04 9.535356e-05 0.000000e+00
## CSI013 6.391614e-05 0.000000e+00 4.154549e-04 5.049375e-03 0.000000e+00
## CSI023 8.164098e-05 0.000000e+00 2.041025e-05 0.000000e+00 0.000000e+00
## CSI034 1.610672e-03 0.000000e+00 1.364334e-03 5.684725e-04 0.000000e+00
## CSI045 0.000000e+00 1.306037e-04 1.959056e-04 1.306037e-04 6.530186e-05
## CSI056 0.000000e+00 1.175572e-04 3.722643e-04 5.877858e-05 5.877858e-05
## CSI066 0.000000e+00 0.000000e+00 3.066955e-04 3.833694e-05 0.000000e+00
## 0tu00539 0tu00540 0tu00541 0tu00542 0tu00543 0tu00544
## CSI002 0.000000e+00 0 0.0001634632 0 0 0
## CSI013 6.391614e-05 0 0.0000000000 0 0 0
## CSI023 0.000000e+00 0 0.0008164098 0 0 0
## CSI034 0.000000e+00 0 0.0000000000 0 0 0
## CSI045 0.000000e+00 0 0.0016651974 0 0 0
## CSI056 0.000000e+00 0 0.0017241717 0 0 0
## CSI066 0.000000e+00 0 0.0002683586 0 0 0
## 0tu00545 0tu00546 0tu00547 0tu00548 0tu00549 0tu00550
## CSI002 2.315729e-04 0 0 1.021645e-03 0 1.362194e-05
## CSI013 1.533987e-03 0 0 8.309098e-04 0 0.000000e+00
## CSI023 2.041025e-05 0 0 1.836922e-04 0 0.000000e+00
## CSI034 1.610672e-03 0 0 2.785515e-03 0 0.000000e+00
## CSI045 1.632546e-04 0 0 0.000000e+00 0 0.000000e+00
## CSI056 9.796430e-05 0 0 1.959286e-05 0 0.000000e+00
## CSI066 2.875271e-04 0 0 1.916847e-05 0 0.000000e+00
## 0tu00551 0tu00552 0tu00553 0tu00554 0tu00555
## CSI002 0 0.000000e+00 0.000000e+00 5.448775e-05 0.000000e+00
## CSI013 0 0.000000e+00 0.000000e+00 9.587421e-05 0.000000e+00
## CSI023 0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034 0 0.000000e+00 0.000000e+00 1.894908e-05 1.894908e-05

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```

## CSI045      0 0.000000e+00 9.795279e-05 0.000000e+00 0.000000e+00
## CSI056      0 0.000000e+00 1.594859e-02 0.000000e+00 0.000000e+00
## CSI066      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##           0tu00556      0tu00557      0tu00558 0tu00559 0tu00560
## CSI002 2.424705e-03 0.000000e+00 2.397461e-03      0      0
## CSI013 1.597904e-03 0.000000e+00 0.000000e+00      0      0
## CSI023 8.164098e-05 0.000000e+00 6.939484e-04      0      0
## CSI034 4.244595e-03 0.000000e+00 0.000000e+00      0      0
## CSI045 2.938584e-04 0.000000e+00 3.591602e-04      0      0
## CSI056 2.155215e-04 5.877858e-05 0.000000e+00      0      0
## CSI066 5.558857e-04 9.584236e-05 0.000000e+00      0      0
##           0tu00561 0tu00562 0tu00563      0tu00564 0tu00565 0tu00566
## CSI002 9.807794e-04      0      0 0.000000e+00      0      0
## CSI013 5.432872e-04      0      0 0.000000e+00      0      0
## CSI023 0.000000e+00      0      0 0.000000e+00      0      0
## CSI034 3.979308e-04      0      0 1.894908e-05      0      0
## CSI045 0.000000e+00      0      0 0.000000e+00      0      0
## CSI056 3.918572e-05      0      0 0.000000e+00      0      0
## CSI066 9.584236e-05      0      0 0.000000e+00      0      0
##           0tu00567 0tu00568 0tu00569      0tu00570      0tu00571 0tu00572
## CSI002 1.362194e-05      0      0 0.0000000000 0.000000e+00      0
## CSI013 8.724553e-03      0      0 0.0000000000 0.000000e+00      0
## CSI023 6.123074e-05      0      0 0.0000000000 0.000000e+00      0
## CSI034 2.463381e-04      0      0 0.0000000000 0.000000e+00      0
## CSI045 3.265093e-05      0      0 0.0002938584 0.000000e+00      0
## CSI056 0.000000e+00      0      0 0.0004310429 1.959286e-05      0
## CSI066 5.750542e-05      0      0 0.0005367172 0.000000e+00      0
##           0tu00573      0tu00574 0tu00575      0tu00576 0tu00577 0tu00578
## CSI002 2.724387e-04 4.086581e-05      0 0.000000e+00      0      0
## CSI013 5.113291e-04 1.917484e-04      0 1.278323e-04      0      0
## CSI023 2.041025e-05 6.123074e-05      0 2.041025e-05      0      0
## CSI034 3.410835e-04 7.579634e-05      0 2.084399e-04      0      0
## CSI045 9.795279e-05 3.265093e-05      0 3.918111e-04      0      0
## CSI056 4.310429e-04 2.096436e-03      0 2.155215e-04      0      0
## CSI066 6.517280e-04 8.817497e-04      0 9.584236e-05      0      0
##           0tu00579 0tu00580      0tu00581 0tu00582      0tu00583
## CSI002 0.0001225974      0 0.000000e+00      0 9.535356e-05
## CSI013 0.0008309098      0 0.000000e+00      0 6.391614e-05
## CSI023 0.0000000000      0 0.000000e+00      0 6.123074e-05
## CSI034 0.0003600326      0 0.000000e+00      0 1.705418e-04
## CSI045 0.0000000000      0 5.877167e-04      0 0.000000e+00
## CSI056 0.0000000000      0 9.012716e-04      0 1.959286e-04
## CSI066 0.0000000000      0 1.725162e-04      0 1.533478e-04
##           0tu00584 0tu00585      0tu00586 0tu00587      0tu00588
## CSI002 0.000000e+00      0 0.0020296686      0 1.362194e-05
## CSI013 9.587421e-05      0 0.0019814004      0 0.000000e+00
## CSI023 4.082049e-05      0 0.0003877947      0 0.000000e+00
## CSI034 1.894908e-04      0 0.0010800978      0 0.000000e+00
## CSI045 0.000000e+00      0 0.0000000000      0 0.000000e+00
## CSI056 1.959286e-05      0 0.0000000000      0 0.000000e+00
## CSI066 0.000000e+00      0 0.0002108532      0 0.000000e+00
##           0tu00589 0tu00590      0tu00591      0tu00592      0tu00593
## CSI002 2.724387e-05      0 2.724387e-05 9.535356e-05 0.000000e+00
## CSI013 1.917484e-04      0 0.000000e+00 1.917484e-04 1.278323e-04

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## CSI023 0.000000e+00      0 0.000000e+00 2.041025e-05 0.000000e+00
## CSI034 9.474542e-05      0 5.684725e-05 3.221344e-04 1.894908e-05
## CSI045 1.959056e-04      0 3.265093e-05 1.306037e-04 2.285565e-04
## CSI056 1.567429e-04      0 7.837144e-05 3.330786e-04 3.918572e-05
## CSI066 7.092335e-04      0 0.000000e+00 3.833694e-04 5.942226e-04
##      0tu00594      0tu00595      0tu00596 0tu00597      0tu00598
## CSI002 1.362194e-05 0.00000000000 7.764504e-04      0 8.173162e-05
## CSI013 0.000000e+00 0.00000000000 4.570004e-03      0 3.195807e-05
## CSI023 0.000000e+00 0.0003877947 1.020512e-04      0 0.000000e+00
## CSI034 0.000000e+00 0.0004926762 1.269589e-03      0 1.515927e-04
## CSI045 0.000000e+00 0.00000000000 1.306037e-04      0 0.000000e+00
## CSI056 0.000000e+00 0.00000000000 3.918572e-05      0 9.796430e-05
## CSI066 0.000000e+00 0.00000000000 5.175487e-04      0 1.916847e-05
##      0tu00599      0tu00600      0tu00601 0tu00602 0tu00603 0tu00604
## CSI002 2.724387e-05 0.0011987304 0.0013349498      0      0      0
## CSI013 0.000000e+00 0.0009907002 0.00000000000      0      0      0
## CSI023 0.000000e+00 0.0001020512 0.0007143586      0      0      0
## CSI034 1.894908e-05 0.0022549410 0.00000000000      0      0      0
## CSI045 0.000000e+00 0.0001306037 0.00000000000      0      0      0
## CSI056 0.000000e+00 0.0001567429 0.00000000000      0      0      0
## CSI066 0.000000e+00 0.0001341793 0.00000000000      0      0      0
##      0tu00605      0tu00606      0tu00607 0tu00608      0tu00609
## CSI002 0.000000e+00 8.581820e-04 6.674749e-04      0 2.996826e-04
## CSI013 0.000000e+00 5.017417e-03 4.474130e-04      0 0.000000e+00
## CSI023 2.041025e-05 0.000000e+00 4.082049e-05      0 1.224615e-04
## CSI034 3.789817e-05 1.515927e-03 1.080098e-03      0 2.084399e-03
## CSI045 0.000000e+00 6.530186e-05 1.306037e-04      0 9.795279e-05
## CSI056 0.000000e+00 7.837144e-05 5.486001e-04      0 4.114501e-04
## CSI066 3.833694e-05 1.916847e-05 1.916847e-05      0 1.188445e-03
##      0tu00610 0tu00611      0tu00612 0tu00613      0tu00614 0tu00615
## CSI002      0      0 1.362194e-05      0 0.000000e+00      0
## CSI013      0      0 0.000000e+00      0 0.000000e+00      0
## CSI023      0      0 0.000000e+00      0 0.000000e+00      0
## CSI034      0      0 0.000000e+00      0 1.894908e-05      0
## CSI045      0      0 3.265093e-05      0 0.000000e+00      0
## CSI056      0      0 1.959286e-05      0 0.000000e+00      0
## CSI066      0      0 1.916847e-05      0 0.000000e+00      0
##      0tu00616      0tu00617      0tu00618      0tu00619      0tu00620
## CSI002 1.362194e-05 2.996826e-04 5.857433e-04 0.000000e+00 0.000000e+00
## CSI013 1.917484e-04 2.876226e-04 1.438113e-03 0.000000e+00 0.000000e+00
## CSI023 0.000000e+00 2.041025e-05 4.082049e-05 0.000000e+00 0.000000e+00
## CSI034 3.789817e-05 9.474542e-04 1.004301e-03 1.894908e-05 0.000000e+00
## CSI045 6.530186e-05 0.000000e+00 0.000000e+00 0.000000e+00 1.959056e-04
## CSI056 1.293129e-03 6.994651e-03 3.918572e-05 0.000000e+00 3.526715e-04
## CSI066 0.000000e+00 3.833694e-05 9.584236e-05 0.000000e+00 2.683586e-04
##      0tu00621 0tu00622 0tu00623      0tu00624      0tu00625 0tu00626
## CSI002 1.076133e-03      0      0 0.000000e+00 4.359020e-04      0
## CSI013 3.131891e-03      0      0 0.000000e+00 7.989518e-04      0
## CSI023 1.428717e-04      0      0 0.000000e+00 1.632820e-04      0
## CSI034 2.179145e-03      0      0 0.000000e+00 5.684725e-04      0
## CSI045 4.897639e-04      0      0 0.000000e+00 6.856695e-04      0
## CSI056 1.959286e-05      0      0 0.000000e+00 6.857501e-04      0
## CSI066 1.533478e-04      0      0 0.000000e+00 0.000000e+00      0
##      0tu00627 0tu00628      0tu00629      0tu00630      0tu00631

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##	CSI002	2.315729e-04	0	7.628285e-04	2.043291e-04	0.000000e+00
##	CSI013	2.077275e-03	0	6.391614e-04	3.515388e-04	1.949442e-03
##	CSI023	1.020512e-04	0	2.041025e-05	2.041025e-05	0.000000e+00
##	CSI034	1.402232e-03	0	7.769124e-04	3.221344e-04	0.000000e+00
##	CSI045	0.000000e+00	0	3.265093e-05	0.000000e+00	6.530186e-05
##	CSI056	9.796430e-05	0	1.684986e-03	4.369208e-03	0.000000e+00
##	CSI066	2.683586e-04	0	5.367172e-04	3.833694e-05	2.108532e-04
##		0tu00632 0tu00633	0tu00634	0tu00635	0tu00636	0tu00637
##	CSI002	0	0	1.225974e-03	0	0.000000e+00
##	CSI013	0	0	2.876226e-04	0	6.072033e-04
##	CSI023	0	0	6.123074e-05	0	0.000000e+00
##	CSI034	0	0	4.358289e-04	0	0.000000e+00
##	CSI045	0	0	6.530186e-05	0	9.795279e-05
##	CSI056	0	0	1.763357e-03	0	2.155215e-04
##	CSI066	0	0	3.833694e-05	0	1.801836e-03
##		0tu00638 0tu00639	0tu00640	0tu00641	0tu00642	
##	CSI002	2.315729e-04	0	0.000000e+00	1.089755e-04	0
##	CSI013	6.391614e-04	0	0.000000e+00	1.278323e-04	0
##	CSI023	0.000000e+00	0	0.000000e+00	6.123074e-05	0
##	CSI034	4.168798e-04	0	3.789817e-05	2.084399e-04	0
##	CSI045	0.000000e+00	0	0.000000e+00	9.795279e-05	0
##	CSI056	1.959286e-04	0	0.000000e+00	4.702286e-04	0
##	CSI066	5.750542e-05	0	0.000000e+00	0.000000e+00	0
##		0tu00643 0tu00644	0tu00645	0tu00646	0tu00647	
##	CSI002	0.000000e+00	0.000000e+00	0.0000000000	6.674749e-04	0
##	CSI013	0.000000e+00	0.000000e+00	0.0000000000	3.195807e-03	0
##	CSI023	0.000000e+00	0.000000e+00	0.0000000000	8.164098e-05	0
##	CSI034	0.000000e+00	1.894908e-05	0.0000000000	1.838061e-03	0
##	CSI045	0.000000e+00	0.000000e+00	0.0000000000	1.306037e-04	0
##	CSI056	0.000000e+00	0.000000e+00	0.0000000000	1.371500e-04	0
##	CSI066	7.667389e-05	0.000000e+00	0.0007859073	4.217064e-04	0
##		0tu00648 0tu00649	0tu00650	0tu00651	0tu00652	0tu00653
##	CSI002	0	0	6.129872e-04	8.581820e-04	0
##	CSI013	0	0	1.757694e-03	1.821610e-03	0
##	CSI023	0	0	4.082049e-05	3.061537e-04	0
##	CSI034	0	0	3.183446e-03	1.838061e-03	0
##	CSI045	0	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0	2.351143e-04	1.959286e-05	0
##	CSI066	0	0	1.916847e-05	0.000000e+00	0
##		0tu00654 0tu00655	0tu00656	0tu00657	0tu00658	0tu00659
##	CSI002	0	0	0	1.498413e-04	0
##	CSI013	0	0	0	5.432872e-03	0
##	CSI023	0	0	0	2.041025e-05	0
##	CSI034	0	0	0	3.979308e-04	0
##	CSI045	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	1.916847e-05	0
##		0tu00660 0tu00661	0tu00662	0tu00663	0tu00664	0tu00665
##	CSI002	7.083407e-04	0	5.448775e-04	0	0
##	CSI013	2.364897e-03	0	6.391614e-05	0	0
##	CSI023	6.123074e-05	0	5.306664e-04	0	0
##	CSI034	1.345385e-03	0	1.515927e-04	0	0
##	CSI045	6.530186e-05	0	0.000000e+00	0	0
##	CSI056	1.567429e-04	0	0.000000e+00	0	0

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## CSI066 2.300217e-04      0 0.000000e+00      0      0      0
##      0tu00666      0tu00667      0tu00668      0tu00669      0tu00670
## CSI002 0.0000000000 0.0000000000 0.000000e+00 0.000000e+00 2.724387e-04
## CSI013 0.0003515388 0.0000000000 0.000000e+00 0.000000e+00 0.000000e+00
## CSI023 0.0002041025 0.0000000000 2.041025e-05 0.000000e+00 6.123074e-05
## CSI034 0.0002463381 0.0000000000 0.000000e+00 5.684725e-05 1.515927e-04
## CSI045 0.0000000000 0.0003591602 0.000000e+00 6.530186e-05 1.403990e-03
## CSI056 0.0002938929 0.0006661573 0.000000e+00 2.840965e-03 0.000000e+00
## CSI066 0.0000000000 0.0003833694 0.000000e+00 1.916847e-04 1.916847e-05
##      0tu00671 0tu00672      0tu00673 0tu00674      0tu00675 0tu00676
## CSI002 1.362194e-05      0 0.000000e+00      0 1.362194e-05      0
## CSI013 3.195807e-05      0 0.000000e+00      0 9.587421e-05      0
## CSI023 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI034 0.000000e+00      0 0.000000e+00      0 3.789817e-05      0
## CSI045 7.836223e-04      0 0.000000e+00      0 0.000000e+00      0
## CSI056 2.155215e-04      0 0.000000e+00      0 0.000000e+00      0
## CSI066 4.025379e-04      0 9.143361e-03      0 0.000000e+00      0
##      0tu00677      0tu00678      0tu00679      0tu00680 0tu00681
## CSI002 9.535356e-05 0.000000e+00 1.362194e-05 5.448775e-05      0
## CSI013 3.195807e-05 3.195807e-05 0.000000e+00 1.278323e-04      0
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00 6.123074e-05      0
## CSI034 1.894908e-05 0.000000e+00 9.474542e-05 2.842363e-04      0
## CSI045 1.306037e-04 0.000000e+00 8.489242e-04 0.000000e+00      0
## CSI056 7.249358e-04 0.000000e+00 1.959286e-05 5.877858e-05      0
## CSI066 4.217064e-04 1.916847e-05 1.437635e-03 0.000000e+00      0
##      0tu00682      0tu00683 0tu00684 0tu00685 0tu00686      0tu00687
## CSI002      0 0.000000e+00      0      0      0 6.674749e-04
## CSI013      0 0.000000e+00      0      0      0 5.592662e-03
## CSI023      0 0.000000e+00      0      0      0 1.020512e-04
## CSI034      0 1.894908e-05      0      0      0 3.297141e-03
## CSI045      0 0.000000e+00      0      0      0 0.000000e+00
## CSI056      0 3.918572e-05      0      0      0 3.918572e-05
## CSI066      0 2.261880e-03      0      0      0 0.000000e+00
##      0tu00688      0tu00689      0tu00690      0tu00691 0tu00692
## CSI002      0 7.355846e-04 1.362194e-03 1.634632e-04      0
## CSI013      0 2.077275e-03 1.438113e-03 1.278323e-04      0
## CSI023      0 1.020512e-04 0.000000e+00 0.000000e+00      0
## CSI034      0 3.069752e-03 5.495234e-04 3.789817e-05      0
## CSI045      0 1.632546e-04 9.795279e-05 0.000000e+00      0
## CSI056      0 4.702286e-04 0.000000e+00 1.959286e-05      0
## CSI066      0 5.558857e-04 2.491901e-04 9.584236e-05      0
##      0tu00693 0tu00694 0tu00695 0tu00696      0tu00697      0tu00698
## CSI002 0.0000000000      0      0      0 5.176336e-04 1.362194e-05
## CSI013 0.0000000000      0      0      0 5.752453e-04 0.000000e+00
## CSI023 0.0000000000      0      0      0 1.224615e-04 0.000000e+00
## CSI034 0.0001515927      0      0      0 5.305743e-04 1.894908e-05
## CSI045 0.0000000000      0      0      0 1.306037e-04 3.591602e-04
## CSI056 0.0000000000      0      0      0 7.837144e-05 7.837144e-05
## CSI066 0.0000000000      0      0      0 2.683586e-04 0.000000e+00
##      0tu00699      0tu00700 0tu00701      0tu00702      0tu00703
## CSI002      0 0.000000e+00      0 3.541704e-04 0.000000e+00
## CSI013      0 0.000000e+00      0 9.587421e-04 0.000000e+00
## CSI023      0 0.000000e+00      0 6.123074e-05 0.000000e+00
## CSI034      0 1.894908e-05      0 1.648570e-03 0.000000e+00

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## CSI045      0 0.000000e+00      0 9.795279e-05 6.530186e-04
## CSI056      0 1.959286e-05      0 2.938929e-04 1.097200e-03
## CSI066      0 0.000000e+00      0 1.073434e-03 1.533478e-04
##      0tu00704 0tu00705 0tu00706 0tu00707 0tu00708 0tu00709
## CSI002 0.000000e+00      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0
## CSI034 1.894908e-05      0      0      0      0      0
## CSI045 8.815751e-04      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0
## CSI066 2.491901e-04      0      0      0      0      0
##      0tu00710      0tu00711 0tu00712 0tu00713 0tu00714 0tu00715
## CSI002 2.724387e-05 1.362194e-05      0      0      0      0
## CSI013 6.391614e-05 0.000000e+00      0      0      0      0
## CSI023 0.000000e+00 1.428717e-04      0      0      0      0
## CSI034 1.894908e-05 2.804464e-03      0      0      0      0
## CSI045 0.000000e+00 0.000000e+00      0      0      0      0
## CSI056 0.000000e+00 0.000000e+00      0      0      0      0
## CSI066 0.000000e+00 0.000000e+00      0      0      0      0
##      0tu00716      0tu00717 0tu00718 0tu00719 0tu00720      0tu00721
## CSI002 0.0000000000 2.588168e-04      0      0      0 0.000000e+00
## CSI013 0.0007989518 1.278323e-04      0      0      0 0.000000e+00
## CSI023 0.0000000000 6.123074e-05      0      0      0 0.000000e+00
## CSI034 0.0000000000 9.474542e-05      0      0      0 0.000000e+00
## CSI045 0.0000000000 0.000000e+00      0      0      0 3.265093e-05
## CSI056 0.0000979643 0.000000e+00      0      0      0 7.719587e-03
## CSI066 0.0000000000 0.000000e+00      0      0      0 1.150108e-04
##      0tu00722      0tu00723 0tu00724      0tu00725 0tu00726 0tu00727
## CSI002 2.043291e-04 1.634632e-04      0 9.535356e-05      0      0
## CSI013 1.054616e-03 3.195807e-05      0 1.917484e-04      0      0
## CSI023 2.041025e-05 0.000000e+00      0 0.000000e+00      0      0
## CSI034 1.212741e-03 1.894908e-04      0 8.148106e-04      0      0
## CSI045 6.530186e-05 0.000000e+00      0 1.632546e-04      0      0
## CSI056 1.508650e-03 0.000000e+00      0 1.371500e-04      0      0
## CSI066 7.667389e-05 0.000000e+00      0 1.533478e-04      0      0
##      0tu00728      0tu00729 0tu00730 0tu00731      0tu00732 0tu00733
## CSI002      0 0.000000e+00      0      0 0.000000e+00      0
## CSI013      0 0.000000e+00      0      0 0.000000e+00      0
## CSI023      0 0.000000e+00      0      0 0.000000e+00      0
## CSI034      0 0.000000e+00      0      0 0.000000e+00      0
## CSI045      0 3.265093e-05      0      0 4.897639e-04      0
## CSI056      0 1.332315e-03      0      0 4.310429e-04      0
## CSI066      0 9.200866e-04      0      0 0.000000e+00      0
##      0tu00734 0tu00735      0tu00736      0tu00737 0tu00738      0tu00739
## CSI002      0      0 5.448775e-05 1.362194e-05      0 2.724387e-04
## CSI013      0      0 0.000000e+00 0.000000e+00      0 1.086574e-03
## CSI023      0      0 0.000000e+00 0.000000e+00      0 6.123074e-05
## CSI034      0      0 1.894908e-05 0.000000e+00      0 4.358289e-04
## CSI045      0      0 3.918111e-04 0.000000e+00      0 3.265093e-05
## CSI056      0      0 4.310429e-04 0.000000e+00      0 2.938929e-04
## CSI066      0      0 2.875271e-04 0.000000e+00      0 5.750542e-05
##      0tu00740      0tu00741      0tu00742 0tu00743 0tu00744 0tu00745
## CSI002 7.900723e-04 0.000000e+00 9.535356e-04      0      0      0
## CSI013 1.310281e-03 0.000000e+00 3.515388e-04      0      0      0

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## CSI023 2.653332e-04 0.000000e+00 4.082049e-05 0 0 0
## CSI034 5.874216e-04 1.894908e-05 1.136945e-04 0 0 0
## CSI045 0.000000e+00 0.000000e+00 1.306037e-04 0 0 0
## CSI056 0.000000e+00 0.000000e+00 0.000000e+00 0 0 0
## CSI066 0.000000e+00 0.000000e+00 1.533478e-04 0 0 0
## 0tu00746 0tu00747 0tu00748 0tu00749 0tu00750 0tu00751
## CSI002 0 0 6.810968e-05 0 0.000000e+00 1.225974e-04
## CSI013 0 0 1.278323e-04 0 6.391614e-05 7.030776e-04
## CSI023 0 0 0.000000e+00 0 0.000000e+00 1.224615e-04
## CSI034 0 0 2.463381e-04 0 5.154151e-03 1.117996e-03
## CSI045 0 0 3.265093e-05 0 0.000000e+00 3.265093e-05
## CSI056 0 0 9.796430e-05 0 0.000000e+00 5.877858e-05
## CSI066 0 0 3.642010e-04 0 0.000000e+00 0.000000e+00
## 0tu00752 0tu00753 0tu00754 0tu00755 0tu00756 0tu00757
## CSI002 0 0 0 0.0006674749 0 0
## CSI013 0 0 0 0.0005752453 0 0
## CSI023 0 0 0 0.0000000000 0 0
## CSI034 0 0 0 0.0003410835 0 0
## CSI045 0 0 0 0.0000000000 0 0
## CSI056 0 0 0 0.0000000000 0 0
## CSI066 0 0 0 0.0000000000 0 0
## 0tu00758 0tu00759 0tu00760 0tu00761 0tu00762
## CSI002 0.0004086581 0 2.724387e-05 0.000000e+00 0.000000e+00
## CSI013 0.0016937778 0 6.391614e-05 0.000000e+00 0.000000e+00
## CSI023 0.0005306664 0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034 0.0016296212 0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI045 0.0000000000 0 1.959056e-04 0.000000e+00 3.265093e-05
## CSI056 0.0006857501 0 3.134858e-04 1.959286e-05 0.000000e+00
## CSI066 0.0002108532 0 7.284019e-04 0.000000e+00 0.000000e+00
## 0tu00763 0tu00764 0tu00765 0tu00766 0tu00767 0tu00768
## CSI002 1.498413e-04 0 0 0 0 1.498413e-04
## CSI013 3.515388e-04 0 0 0 0 1.917484e-04
## CSI023 4.082049e-05 0 0 0 0 0.000000e+00
## CSI034 3.031853e-04 0 0 0 0 4.168798e-04
## CSI045 2.938584e-04 0 0 0 0 9.795279e-05
## CSI056 1.959286e-04 0 0 0 0 2.547072e-04
## CSI066 1.916847e-05 0 0 0 0 2.875271e-04
## 0tu00769 0tu00770 0tu00771 0tu00772 0tu00773
## CSI002 0.000000e+00 0.000000e+00 5.176336e-04 0 0
## CSI013 0.000000e+00 0.000000e+00 2.237065e-04 0 0
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00 0 0
## CSI034 0.000000e+00 1.894908e-05 1.212741e-03 0 0
## CSI045 0.000000e+00 0.000000e+00 6.530186e-05 0 0
## CSI056 0.000000e+00 0.000000e+00 1.763357e-04 0 0
## CSI066 1.916847e-05 0.000000e+00 1.533478e-04 0 0
## 0tu00774 0tu00775 0tu00776 0tu00777 0tu00778 0tu00779
## CSI002 1.362194e-05 0 0 0 0.000000e+00 0.000000e+00
## CSI013 0.000000e+00 0 0 0 0.000000e+00 0.000000e+00
## CSI023 0.000000e+00 0 0 0 0.000000e+00 0.000000e+00
## CSI034 0.000000e+00 0 0 0 0.000000e+00 1.894908e-05
## CSI045 1.306037e-04 0 0 0 0.000000e+00 6.530186e-05
## CSI056 5.290072e-04 0 0 0 1.959286e-05 5.877858e-05
## CSI066 1.150108e-04 0 0 0 0.000000e+00 5.750542e-05
## 0tu00780 0tu00781 0tu00782 0tu00783 0tu00784 0tu00785

```

##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu00786	0tu00787	0tu00788	0tu00789	0tu00790	0tu00791
##	CSI002	2.724387e-04	0	0.000000e+00	0	0	0.000000e+00
##	CSI013	4.154549e-04	0	0.000000e+00	0	0	0.000000e+00
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	3.221344e-04	0	0.000000e+00	0	0	0.000000e+00
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	5.550658e-04
##	CSI056	1.567429e-04	0	0.000000e+00	0	0	2.351143e-04
##	CSI066	2.875271e-04	0	0.000000e+00	0	0	1.686826e-03
##		0tu00792	0tu00793	0tu00794	0tu00795	0tu00796	
##	CSI002	4.086581e-05	0.0002996826	0.000000e+00	0.000000e+00	0	
##	CSI013	5.113291e-04	0.0017896520	0.000000e+00	0.000000e+00	0	
##	CSI023	2.041025e-05	0.0001224615	0.000000e+00	0.000000e+00	0	
##	CSI034	9.664033e-04	0.0003410835	1.894908e-05	0.000000e+00	0	
##	CSI045	3.591602e-04	0.0001306037	0.000000e+00	0.000000e+00	0	
##	CSI056	6.857501e-04	0.0006269715	2.978115e-03	0.000000e+00	0	
##	CSI066	0.000000e+00	0.0001725162	3.833694e-05	0.000000e+00	0	
##		0tu00797	0tu00798	0tu00799	0tu00800	0tu00801	
##	CSI002	5.448775e-05	0	3.677923e-04	0.000000e+00	0.000000e+00	
##	CSI013	9.587421e-05	0	1.246365e-03	0.000000e+00	2.237065e-04	
##	CSI023	0.000000e+00	0	1.224615e-04	0.000000e+00	6.123074e-05	
##	CSI034	7.579634e-05	0	7.011161e-04	0.000000e+00	1.894908e-05	
##	CSI045	0.000000e+00	0	1.959056e-04	9.795279e-05	1.306037e-04	
##	CSI056	3.918572e-05	0	0.000000e+00	1.743765e-03	1.959286e-05	
##	CSI066	3.833694e-05	0	9.584236e-05	7.092335e-04	4.408748e-04	
##		0tu00802	0tu00803	0tu00804	0tu00805	0tu00806	0tu00807
##	CSI002	8.173162e-05	5.448775e-04	6.810968e-04	0	0	0
##	CSI013	2.556646e-04	2.556646e-04	1.597904e-03	0	0	0
##	CSI023	0.000000e+00	6.123074e-05	4.082049e-05	0	0	0
##	CSI034	1.894908e-04	4.737271e-04	2.198094e-03	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	3.265093e-05	0	0	0
##	CSI056	9.796430e-05	3.918572e-05	0.000000e+00	0	0	0
##	CSI066	1.533478e-04	2.376890e-03	1.916847e-05	0	0	0
##		0tu00808	0tu00809	0tu00810	0tu00811	0tu00812	0tu00813
##	CSI002	2.315729e-04	0	0	4.086581e-05	0	0.000000e+00
##	CSI013	1.182449e-03	0	0	0.000000e+00	0	0.000000e+00
##	CSI023	6.123074e-05	0	0	0.000000e+00	0	0.000000e+00
##	CSI034	3.031853e-04	0	0	5.684725e-05	0	0.000000e+00
##	CSI045	3.265093e-05	0	0	0.000000e+00	0	0.000000e+00
##	CSI056	3.918572e-05	0	0	0.000000e+00	0	1.959286e-05
##	CSI066	2.108532e-04	0	0	0.000000e+00	0	7.667389e-05
##		0tu00814	0tu00815	0tu00816	0tu00817	0tu00818	0tu00819
##	CSI002	0	6.810968e-05	0	2.724387e-05	0	0.000000e+00
##	CSI013	0	6.391614e-05	0	3.195807e-05	0	0.000000e+00
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI034	0	4.168798e-04	0	3.031853e-04	0	1.894908e-05
##	CSI045	0	3.265093e-05	0	0.000000e+00	0	0.000000e+00
##	CSI056	0	1.645800e-03	0	1.959286e-05	0	0.000000e+00

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## CSI066      0 2.108532e-04      0 0.000000e+00      0 0.000000e+00
##      0tu00820 0tu00821      0tu00822      0tu00823      0tu00824
## CSI002      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI013      0      0 6.902943e-03 0.000000e+00 0.000000e+00
## CSI023      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034      0      0 1.894908e-05 1.894908e-05 0.000000e+00
## CSI045      0      0 0.000000e+00 3.265093e-05 0.000000e+00
## CSI056      0      0 4.506358e-04 0.000000e+00 6.661573e-03
## CSI066      0      0 0.000000e+00 5.942226e-04 0.000000e+00
##      0tu00825      0tu00826 0tu00827      0tu00828 0tu00829 0tu00830
## CSI002 2.860607e-04 0.000000e+00      0 0.000000e+00      0      0
## CSI013 6.391614e-04 0.000000e+00      0 0.000000e+00      0      0
## CSI023 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI034 1.155894e-03 0.000000e+00      0 1.894908e-05      0      0
## CSI045 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI056 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI066 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
##      0tu00831 0tu00832      0tu00833 0tu00834 0tu00835      0tu00836
## CSI002      0      0 0.000000e+00      0      0 0.0000000000
## CSI013      0      0 0.000000e+00      0      0 0.0000000000
## CSI023      0      0 0.000000e+00      0      0 0.0000000000
## CSI034      0      0 1.894908e-05      0      0 0.0000000000
## CSI045      0      0 0.000000e+00      0      0 0.0000000000
## CSI056      0      0 0.000000e+00      0      0 0.0006465644
## CSI066      0      0 0.000000e+00      0      0 0.0001150108
##      0tu00837 0tu00838      0tu00839 0tu00840 0tu00841      0tu00842
## CSI002 1.362194e-05      0 0.000000e+00      0      0 4.767678e-04
## CSI013 0.000000e+00      0 0.000000e+00      0      0 2.876226e-04
## CSI023 0.000000e+00      0 2.041025e-05      0      0 6.123074e-05
## CSI034 0.000000e+00      0 5.684725e-05      0      0 3.031853e-04
## CSI045 0.000000e+00      0 1.306037e-04      0      0 3.265093e-05
## CSI056 0.000000e+00      0 9.796430e-05      0      0 3.330786e-04
## CSI066 0.000000e+00      0 5.175487e-04      0      0 3.833694e-05
##      0tu00843      0tu00844 0tu00845 0tu00846 0tu00847      0tu00848
## CSI002 0.000000e+00 0.000000e+00      0      0      0 0.0000000000
## CSI013 3.195807e-05 0.000000e+00      0      0      0 0.0000000000
## CSI023 0.000000e+00 2.041025e-05      0      0      0 0.0000000000
## CSI034 0.000000e+00 0.000000e+00      0      0      0 0.0000000000
## CSI045 3.265093e-05 0.000000e+00      0      0      0 0.0018284520
## CSI056 0.000000e+00 1.959286e-05      0      0      0 0.0008229001
## CSI066 1.916847e-05 4.792118e-04      0      0      0 0.0020893634
##      0tu00849 0tu00850 0tu00851 0tu00852      0tu00853 0tu00854
## CSI002 0.000000e+00      0      0      0 2.724387e-05      0
## CSI013 0.000000e+00      0      0      0 6.391614e-05      0
## CSI023 0.000000e+00      0      0      0 0.000000e+00      0
## CSI034 0.000000e+00      0      0      0 3.410835e-04      0
## CSI045 0.000000e+00      0      0      0 3.591602e-04      0
## CSI056 0.000000e+00      0      0      0 8.424930e-04      0
## CSI066 0.000000e+00      0      0      0 1.150108e-04      0
##      0tu00855      0tu00856      0tu00857      0tu00858      0tu00859
## CSI002 0.0000000000 0.000000e+00 3.677923e-04 0.000000e+00 0.0000000000
## CSI013 0.0000000000 0.000000e+00 1.597904e-04 0.000000e+00 0.0000000000
## CSI023 0.0000000000 0.000000e+00 4.082049e-05 0.000000e+00 0.0000000000
## CSI034 0.0000000000 1.894908e-05 3.600326e-04 0.000000e+00 0.0001136945

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## CSI045 0.0000000000 3.265093e-05 3.265093e-05 0.000000e+00 0.0000000000
## CSI056 0.0104038089 1.430279e-03 7.837144e-05 0.000000e+00 0.0000000000
## CSI066 0.0000000000 1.916847e-04 3.833694e-05 0.000000e+00 0.0000000000
##      0tu00860 0tu00861 0tu00862      0tu00863 0tu00864      0tu00865
## CSI002      0      0      0 0.000000e+00      0 0.000000e+00
## CSI013      0      0      0 0.000000e+00      0 0.000000e+00
## CSI023      0      0      0 0.000000e+00      0 0.000000e+00
## CSI034      0      0      0 0.000000e+00      0 0.000000e+00
## CSI045      0      0      0 6.530186e-05      0 0.000000e+00
## CSI056      0      0      0 1.567429e-04      0 1.959286e-04
## CSI066      0      0      0 3.833694e-05      0 9.584236e-05
##      0tu00866      0tu00867 0tu00868      0tu00869      0tu00870 0tu00871
## CSI002      0 0.000000e+00      0 4.767678e-04 1.225974e-04      0
## CSI013      0 0.000000e+00      0 6.711195e-04 6.391614e-05      0
## CSI023      0 0.000000e+00      0 4.082049e-05 0.000000e+00      0
## CSI034      0 0.000000e+00      0 7.011161e-04 3.979308e-04      0
## CSI045      0 0.000000e+00      0 6.530186e-05 2.285565e-04      0
## CSI056      0 0.000000e+00      0 3.918572e-05 7.249358e-04      0
## CSI066      0 9.584236e-05      0 1.533478e-04 3.066955e-04      0
##      0tu00872      0tu00873 0tu00874 0tu00875      0tu00876      0tu00877
## CSI002      0 1.362194e-05      0      0 0.000000e+00 0.000000e+00
## CSI013      0 3.195807e-05      0      0 0.000000e+00 0.000000e+00
## CSI023      0 1.224615e-04      0      0 2.041025e-05 0.000000e+00
## CSI034      0 1.894908e-04      0      0 5.684725e-05 0.000000e+00
## CSI045      0 0.000000e+00      0      0 0.000000e+00 1.632546e-04
## CSI056      0 0.000000e+00      0      0 0.000000e+00 7.837144e-05
## CSI066      0 0.000000e+00      0      0 0.000000e+00 7.667389e-05
##      0tu00878 0tu00879 0tu00880 0tu00881      0tu00882      0tu00883
## CSI002      0      0      0      0 1.362194e-04 0.000000e+00
## CSI013      0      0      0      0 4.793711e-04 0.000000e+00
## CSI023      0      0      0      0 1.428717e-04 0.000000e+00
## CSI034      0      0      0      0 5.684725e-05 2.311788e-03
## CSI045      0      0      0      0 0.000000e+00 1.175433e-03
## CSI056      0      0      0      0 0.000000e+00 9.796430e-05
## CSI066      0      0      0      0 0.000000e+00 5.750542e-05
##      0tu00884      0tu00885      0tu00886      0tu00887 0tu00888
## CSI002 0.000000e+00 3.677923e-04 0.0000000000 1.225974e-04      0
## CSI013 0.000000e+00 8.628679e-04 0.0000000000 3.195807e-05      0
## CSI023 0.000000e+00 4.082049e-05 0.0000000000 4.082049e-05      0
## CSI034 0.000000e+00 6.442688e-04 0.0000000000 1.894908e-04      0
## CSI045 0.000000e+00 0.000000e+00 0.0000000000 1.959056e-04      0
## CSI056 0.000000e+00 5.681930e-04 0.0000000000 9.796430e-05      0
## CSI066 9.584236e-05 1.916847e-05 0.0000000000 7.667389e-05      0
##      0tu00889      0tu00890 0tu00891 0tu00892 0tu00893      0tu00894
## CSI002      0 0.000000e+00      0      0      0 5.448775e-05
## CSI013      0 6.391614e-05      0      0      0 6.391614e-05
## CSI023      0 0.000000e+00      0      0      0 0.000000e+00
## CSI034      0 1.894908e-05      0      0      0 1.705418e-04
## CSI045      0 1.306037e-04      0      0      0 9.795279e-05
## CSI056      0 1.332315e-03      0      0      0 5.486001e-04
## CSI066      0 5.367172e-04      0      0      0 3.162798e-03
##      0tu00895 0tu00896 0tu00897 0tu00898 0tu00899 0tu00900 0tu00901
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0

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##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu00902	0tu00903	0tu00904	0tu00905	0tu00906		
##	CSI002	4.086581e-05	1.362194e-05	0	0.000000e+00	0		
##	CSI013	0.000000e+00	0.000000e+00	0	0.000000e+00	0		
##	CSI023	0.000000e+00	0.000000e+00	0	0.000000e+00	0		
##	CSI034	0.000000e+00	1.894908e-05	0	1.894908e-05	0		
##	CSI045	0.000000e+00	5.877167e-04	0	0.000000e+00	0		
##	CSI056	0.000000e+00	2.311958e-03	0	1.959286e-05	0		
##	CSI066	0.000000e+00	0.000000e+00	0	0.000000e+00	0		
##		0tu00907	0tu00908	0tu00909	0tu00910	0tu00911		
##	CSI002	1.907071e-04	0	2.315729e-04	0	0.000000e+00		
##	CSI013	2.237065e-04	0	6.391614e-05	0	0.000000e+00		
##	CSI023	4.082049e-05	0	6.123074e-05	0	0.000000e+00		
##	CSI034	1.515927e-04	0	1.705418e-04	0	7.579634e-05		
##	CSI045	6.530186e-05	0	0.000000e+00	0	0.000000e+00		
##	CSI056	3.134858e-04	0	0.000000e+00	0	0.000000e+00		
##	CSI066	5.750542e-05	0	0.000000e+00	0	3.833694e-05		
##		0tu00912	0tu00913	0tu00914	0tu00915	0tu00916	0tu00917	
##	CSI002	4.086581e-05	0	9.535356e-05	0	1.116999e-03	0	
##	CSI013	0.000000e+00	0	2.556646e-04	0	1.374197e-03	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0	4.082049e-05	0	
##	CSI034	0.000000e+00	0	4.737271e-04	0	1.894908e-03	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	9.796430e-05	0	5.877858e-05	0	3.526715e-04	0	
##	CSI066	0.000000e+00	0	1.916847e-05	0	1.341793e-04	0	
##		0tu00918	0tu00919	0tu00920	0tu00921	0tu00922		
##	CSI002	0	1.362194e-04	4.086581e-05	0.0000000000	3.133045e-04		
##	CSI013	0	1.374197e-03	9.587421e-05	0.0000000000	1.246365e-03		
##	CSI023	0	4.082049e-05	0.000000e+00	0.0000000000	1.428717e-04		
##	CSI034	0	8.906069e-04	1.515927e-04	0.0000000000	8.906069e-04		
##	CSI045	0	3.265093e-05	0.000000e+00	0.0000000000	0.000000e+00		
##	CSI056	0	9.796430e-05	5.152922e-03	0.0011755716	3.134858e-04		
##	CSI066	0	0.000000e+00	0.000000e+00	0.0004792118	1.916847e-05		
##		0tu00923	0tu00924	0tu00925	0tu00926	0tu00927	0tu00928	
##	CSI002	0	1.770852e-04	0	0.000000e+00	0	0	
##	CSI013	0	3.195807e-05	0	0.000000e+00	0	0	
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI034	0	1.705418e-04	0	0.000000e+00	0	0	
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI056	0	1.175572e-04	0	0.000000e+00	0	0	
##	CSI066	0	0.000000e+00	0	1.916847e-05	0	0	
##		0tu00929	0tu00930	0tu00931	0tu00932	0tu00933		
##	CSI002	0.000000e+00	1.362194e-05	0	0	1.362194e-05		
##	CSI013	0.000000e+00	1.597904e-04	0	0	1.917484e-04		
##	CSI023	0.000000e+00	0.000000e+00	0	0	1.020512e-04		
##	CSI034	0.000000e+00	1.515927e-04	0	0	7.011161e-04		
##	CSI045	3.265093e-05	0.000000e+00	0	0	9.795279e-05		
##	CSI056	1.626207e-03	2.155215e-04	0	0	5.877858e-05		
##	CSI066	1.725162e-04	2.108532e-04	0	0	4.217064e-04		
##		0tu00934	0tu00935	0tu00936	0tu00937	0tu00938	0tu00939	

##	CSI002	3.269265e-04	1.089755e-04	0	0	0	4.495239e-04
##	CSI013	7.989518e-04	0.000000e+00	0	0	0	1.278323e-03
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	2.041025e-05
##	CSI034	4.547780e-04	9.474542e-05	0	0	0	7.390143e-04
##	CSI045	9.795279e-05	3.591602e-04	0	0	0	0.000000e+00
##	CSI056	5.877858e-05	1.959286e-05	0	0	0	1.175572e-04
##	CSI066	6.325596e-04	9.584236e-05	0	0	0	1.150108e-04
##		0tu00940	0tu00941	0tu00942	0tu00943	0tu00944	0tu00945
##	CSI002	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI013	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI023	0	0	0.000000e+00	0	0	2.041025e-05
##	CSI034	0	0	1.894908e-05	0	0	5.684725e-05
##	CSI045	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI056	0	0	1.959286e-05	0	0	1.959286e-05
##	CSI066	0	0	0.000000e+00	0	0	2.300217e-04
##		0tu00946	0tu00947	0tu00948	0tu00949	0tu00950	0tu00951
##	CSI002	0	0.000000000	0.000000e+00	0	0.000000e+00	0
##	CSI013	0	0.000000000	0.000000e+00	0	0.000000e+00	0
##	CSI023	0	0.000000000	0.000000e+00	0	0.000000e+00	0
##	CSI034	0	0.000000000	0.000000e+00	0	1.894908e-05	0
##	CSI045	0	0.000000000	0.000000e+00	0	0.000000e+00	0
##	CSI056	0	0.000568193	3.918572e-05	0	0.000000e+00	0
##	CSI066	0	0.000000000	0.000000e+00	0	0.000000e+00	0
##		0tu00952	0tu00953	0tu00954	0tu00955	0tu00956	
##	CSI002	1.362194e-05	1.076133e-03	8.173162e-05	0	0	
##	CSI013	0.000000e+00	6.711195e-04	1.597904e-04	0	0	
##	CSI023	0.000000e+00	2.245127e-04	0.000000e+00	0	0	
##	CSI034	0.000000e+00	1.345385e-03	0.000000e+00	0	0	
##	CSI045	0.000000e+00	0.000000e+00	9.795279e-05	0	0	
##	CSI056	0.000000e+00	0.000000e+00	7.837144e-05	0	0	
##	CSI066	0.000000e+00	1.916847e-05	1.341793e-04	0	0	
##		0tu00957	0tu00958	0tu00959	0tu00960	0tu00961	
##	CSI002	1.362194e-04	0	1.539279e-03	0	0.0000000000	
##	CSI013	8.628679e-04	0	4.154549e-04	0	0.0000000000	
##	CSI023	1.020512e-04	0	1.428717e-04	0	0.0000000000	
##	CSI034	7.579634e-04	0	3.221344e-04	0	0.0000000000	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0.0002612074	
##	CSI056	0.000000e+00	0	0.000000e+00	0	0.0000000000	
##	CSI066	0.000000e+00	0	0.000000e+00	0	0.0000000000	
##		0tu00962	0tu00963	0tu00964	0tu00965	0tu00966	0tu00967
##	CSI002	0.000000e+00	0	1.089755e-04	0	0.000000e+00	0
##	CSI013	3.195807e-05	0	9.587421e-05	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	1.632820e-04	0	0.000000e+00	0
##	CSI034	1.326436e-04	0	1.705418e-04	0	0.000000e+00	0
##	CSI045	1.306037e-04	0	3.265093e-05	0	9.795279e-05	0
##	CSI056	0.000000e+00	0	7.445287e-04	0	4.702286e-04	0
##	CSI066	0.000000e+00	0	1.150108e-04	0	3.833694e-05	0
##		0tu00968	0tu00969	0tu00970	0tu00971	0tu00972	0tu00973
##	CSI002	0	1.770852e-04	0	1.362194e-05	0	0
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI034	0	9.474542e-05	0	0.000000e+00	0	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0

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## CSI066      0 1.341793e-04      0 0.000000e+00      0      0
##      0tu00974      0tu00975      0tu00976 0tu00977 0tu00978      0tu00979
## CSI002      0 0.000000e+00 0.0000000000      0      0 0.0000000000
## CSI013      0 0.000000e+00 0.0000000000      0      0 0.0000000000
## CSI023      0 0.000000e+00 0.0000000000      0      0 0.0000000000
## CSI034      0 0.000000e+00 0.0000000000      0      0 0.0000000000
## CSI045      0 3.265093e-05 0.0000000000      0      0 0.0005877167
## CSI056      0 0.000000e+00 0.0000000000      0      0 0.0000000000
## CSI066      0 7.859073e-04 0.001399298      0      0 0.0000000000
##      0tu00980 0tu00981      0tu00982 0tu00983      0tu00984 0tu00985
## CSI002 0.000000e+00      0 0.000000e+00      0 2.724387e-05      0
## CSI013 0.000000e+00      0 6.391614e-05      0 6.391614e-05      0
## CSI023 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI034 0.000000e+00      0 1.894908e-05      0 1.894908e-05      0
## CSI045 7.183204e-04      0 0.000000e+00      0 0.000000e+00      0
## CSI056 7.837144e-05      0 3.918572e-05      0 1.959286e-05      0
## CSI066 6.708965e-04      0 5.750542e-05      0 7.667389e-05      0
##      0tu00986 0tu00987 0tu00988 0tu00989      0tu00990      0tu00991
## CSI002 6.810968e-05      0      0      0 0.000000e+00 1.362194e-05
## CSI013 3.195807e-05      0      0      0 0.000000e+00 0.000000e+00
## CSI023 4.082049e-05      0      0      0 0.000000e+00 0.000000e+00
## CSI034 5.684725e-05      0      0      0 0.000000e+00 0.000000e+00
## CSI045 3.265093e-05      0      0      0 0.000000e+00 3.265093e-05
## CSI056 3.918572e-05      0      0      0 1.116793e-03 1.273536e-03
## CSI066 2.108532e-04      0      0      0 3.066955e-04 0.000000e+00
##      0tu00992      0tu00993 0tu00994 0tu00995      0tu00996 0tu00997
## CSI002 1.362194e-05 2.029669e-03      0      0 0.000000e+00      0
## CSI013 3.195807e-05 2.237065e-04      0      0 0.000000e+00      0
## CSI023 0.000000e+00 4.082049e-05      0      0 0.000000e+00      0
## CSI034 1.326436e-04 9.474542e-05      0      0 0.000000e+00      0
## CSI045 6.530186e-05 0.000000e+00      0      0 0.000000e+00      0
## CSI056 5.877858e-05 1.567429e-04      0      0 5.877858e-05      0
## CSI066 4.983803e-04 0.000000e+00      0      0 1.418467e-03      0
##      0tu00998      0tu00999      0tu01000      0tu01001 0tu01002
## CSI002 0.000000e+00 0.000000e+00 0.000000e+00 4.086581e-05      0
## CSI013 0.000000e+00 3.195807e-05 0.000000e+00 3.195807e-05      0
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI034 0.000000e+00 1.894908e-05 0.000000e+00 3.221344e-04      0
## CSI045 6.530186e-05 9.795279e-05 3.265093e-05 3.265093e-05      0
## CSI056 1.763357e-04 1.959286e-05 1.959286e-05 1.959286e-05      0
## CSI066 7.667389e-05 3.642010e-04 1.916847e-05 1.916847e-05      0
##      0tu01003      0tu01004      0tu01005      0tu01006 0tu01007 0tu01008
## CSI002      0 0.000000e+00 1.362194e-05 0.000000e+00      0      0
## CSI013      0 0.000000e+00 2.237065e-04 0.000000e+00      0      0
## CSI023      0 0.000000e+00 2.041025e-05 0.000000e+00      0      0
## CSI034      0 0.000000e+00 1.307487e-03 0.000000e+00      0      0
## CSI045      0 0.000000e+00 1.306037e-04 1.403990e-03      0      0
## CSI056      0 3.918572e-05 1.959286e-05 1.959286e-05      0      0
## CSI066      0 3.066955e-04 0.000000e+00 1.341793e-04      0      0
##      0tu01009 0tu01010 0tu01011      0tu01012 0tu01013      0tu01014
## CSI002      0      0      0 1.089755e-04      0 7.900723e-04
## CSI013      0      0      0 6.391614e-05      0 5.432872e-04
## CSI023      0      0      0 0.000000e+00      0 6.123074e-05
## CSI034      0      0      0 1.136945e-04      0 8.527088e-04

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##	CSI045	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI056	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI066	0	0	0	0.000000e+00	0	1.725162e-04
##		0tu01015	0tu01016	0tu01017	0tu01018	0tu01019	0tu01020 0tu01021
##	CSI002	0	0	0	0	0	0.000000e+00 0
##	CSI013	0	0	0	0	0	0.000000e+00 0
##	CSI023	0	0	0	0	0	0.000000e+00 0
##	CSI034	0	0	0	0	0	0.000000e+00 0
##	CSI045	0	0	0	0	0	0.000000e+00 0
##	CSI056	0	0	0	0	0	3.526715e-04 0
##	CSI066	0	0	0	0	0	5.750542e-05 0
##		0tu01022	0tu01023	0tu01024	0tu01025	0tu01026	0tu01027
##	CSI002	0	0.000000e+00	0	0	8.173162e-05	0.000000e+00
##	CSI013	0	0.000000e+00	0	0	2.556646e-04	0.000000e+00
##	CSI023	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00
##	CSI034	0	0.000000e+00	0	0	4.168798e-04	1.894908e-05
##	CSI045	0	0.000000e+00	0	0	3.265093e-05	2.285565e-04
##	CSI056	0	0.000000e+00	0	0	1.959286e-05	5.290072e-04
##	CSI066	0	0.000000e+00	0	0	0.000000e+00	2.683586e-04
##		0tu01028	0tu01029	0tu01030	0tu01031	0tu01032	0tu01033
##	CSI002	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI013	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI023	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI034	0	1.894908e-05	0	0	0	0.000000e+00
##	CSI045	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI056	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI066	0	0.000000e+00	0	0	0	0.000000e+00
##		0tu01034	0tu01035	0tu01036	0tu01037	0tu01038	
##	CSI002	0	0.000000000	0.000000e+00	0.000000e+00	0	
##	CSI013	0	0.000000000	0.000000e+00	0.000000e+00	0	
##	CSI023	0	0.000000000	0.000000e+00	0.000000e+00	0	
##	CSI034	0	0.000000000	5.684725e-05	1.894908e-05	0	
##	CSI045	0	0.000000000	1.632546e-04	0.000000e+00	0	
##	CSI056	0	0.004859029	3.918572e-04	0.000000e+00	0	
##	CSI066	0	0.000000000	7.667389e-05	0.000000e+00	0	
##		0tu01039	0tu01040	0tu01041	0tu01042	0tu01043	
##	CSI002	0.000000e+00	0	2.043291e-04	0.000000e+00	5.448775e-05	
##	CSI013	3.195807e-04	0	9.587421e-04	0.000000e+00	2.237065e-04	
##	CSI023	0.000000e+00	0	8.164098e-05	0.000000e+00	0.000000e+00	
##	CSI034	3.789817e-05	0	9.285051e-04	1.894908e-05	1.136945e-04	
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI056	0.000000e+00	0	5.877858e-05	0.000000e+00	1.155979e-03	
##	CSI066	0.000000e+00	0	3.833694e-05	0.000000e+00	3.450325e-04	
##		0tu01044	0tu01045	0tu01046	0tu01047	0tu01048	0tu01049
##	CSI002	0	0	0.000000e+00	0	8.309381e-04	0
##	CSI013	0	0	0.000000e+00	0	2.300981e-03	0
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI034	0	0	0.000000e+00	0	3.789817e-04	0
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI066	0	0	6.325596e-04	0	1.916847e-05	0
##		0tu01050	0tu01051	0tu01052	0tu01053	0tu01054	0tu01055
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	3.195807e-05

##	CSI023	0	0	0	0	0 0.000000e+00		
##	CSI034	0	0	0	0	0 0.000000e+00		
##	CSI045	0	0	0	0	0 0.000000e+00		
##	CSI056	0	0	0	0	0 2.155215e-04		
##	CSI066	0	0	0	0	0 0.000000e+00		
##		0tu01056	0tu01057	0tu01058	0tu01059	0tu01060	0tu01061	
##	CSI002	0.0000000000	0	0	0.000000e+00	0	2.724387e-05	
##	CSI013	0.0000000000	0	0	6.391614e-05	0	0.000000e+00	
##	CSI023	0.0000000000	0	0	6.123074e-05	0	0.000000e+00	
##	CSI034	0.0000000000	0	0	1.326436e-04	0	0.000000e+00	
##	CSI045	0.0003591602	0	0	0.000000e+00	0	3.265093e-05	
##	CSI056	0.0001959286	0	0	3.134858e-04	0	5.877858e-05	
##	CSI066	0.0000000000	0	0	0.000000e+00	0	1.916847e-05	
##		0tu01062	0tu01063	0tu01064	0tu01065	0tu01066	0tu01067	
##	CSI002	1.362194e-05	0.000000e+00	0	0	0	1.362194e-04	
##	CSI013	3.195807e-05	0.000000e+00	0	0	0	1.597904e-04	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	1.193792e-03	
##	CSI045	1.632546e-04	1.632546e-04	0	0	0	0.000000e+00	
##	CSI056	6.269715e-04	9.796430e-05	0	0	0	0.000000e+00	
##	CSI066	0.000000e+00	1.341793e-04	0	0	0	0.000000e+00	
##		0tu01068	0tu01069	0tu01070	0tu01071	0tu01072		
##	CSI002	1.225974e-04	0	5.448775e-05	1.035267e-03	0		
##	CSI013	1.917484e-04	0	6.391614e-05	0.000000e+00	0		
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0		
##	CSI034	2.084399e-04	0	1.136945e-04	3.031853e-04	0		
##	CSI045	0.000000e+00	0	0.000000e+00	8.815751e-04	0		
##	CSI056	3.526715e-04	0	1.959286e-05	9.796430e-04	0		
##	CSI066	0.000000e+00	0	1.150108e-04	2.108532e-04	0		
##		0tu01073	0tu01074	0tu01075	0tu01076	0tu01077		
##	CSI002	0.000000e+00	0.000000e+00	2.451949e-04	0.000000e+00	0		
##	CSI013	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0		
##	CSI023	0.000000e+00	6.123074e-05	2.041025e-05	0.000000e+00	0		
##	CSI034	0.000000e+00	0.000000e+00	1.894908e-04	0.000000e+00	0		
##	CSI045	0.000000e+00	0.000000e+00	0.000000e+00	2.938584e-04	0		
##	CSI056	0.000000e+00	0.000000e+00	0.000000e+00	7.837144e-05	0		
##	CSI066	0.000000e+00	1.725162e-04	0.000000e+00	3.450325e-04	0		
##		0tu01078	0tu01079	0tu01080	0tu01081	0tu01082		
##	CSI002	0.000000e+00	0	6.538530e-04	0.000000e+00	2.315729e-04		
##	CSI013	9.587421e-05	0	1.406155e-03	0.000000e+00	4.474130e-04		
##	CSI023	0.000000e+00	0	8.164098e-05	0.000000e+00	4.082049e-05		
##	CSI034	5.684725e-05	0	8.148106e-04	0.000000e+00	7.769124e-04		
##	CSI045	5.224149e-04	0	6.530186e-05	0.000000e+00	0.000000e+00		
##	CSI056	0.000000e+00	0	3.918572e-05	2.390329e-03	0.000000e+00		
##	CSI066	0.000000e+00	0	1.341793e-04	0.000000e+00	1.916847e-05		
##		0tu01083	0tu01084	0tu01085	0tu01086	0tu01087	0tu01088	
##	CSI002	0.000000e+00	1.362194e-05	3.677923e-04	0	0	0	
##	CSI013	3.195807e-05	0.000000e+00	4.474130e-04	0	0	0	
##	CSI023	0.000000e+00	0.000000e+00	2.041025e-05	0	0	0	
##	CSI034	0.000000e+00	1.705418e-04	4.547780e-04	0	0	0	
##	CSI045	0.000000e+00	3.265093e-05	3.265093e-05	0	0	0	
##	CSI056	1.371500e-04	7.837144e-05	1.175572e-04	0	0	0	
##	CSI066	1.725162e-04	1.916847e-05	3.833694e-05	0	0	0	
##		0tu01089	0tu01090	0tu01091	0tu01092	0tu01093	0tu01094	0tu01095

##	CSI002	0	0	0	0	0	0 0.000000e+00
##	CSI013	0	0	0	0	0	0 3.195807e-05
##	CSI023	0	0	0	0	0	0 0.000000e+00
##	CSI034	0	0	0	0	0	0 5.684725e-05
##	CSI045	0	0	0	0	0	0 0.000000e+00
##	CSI056	0	0	0	0	0	0 0.000000e+00
##	CSI066	0	0	0	0	0	0 0.000000e+00
##		0tu01096	0tu01097	0tu01098	0tu01099	0tu01100	0tu01101
##	CSI002	0	0	0 5.448775e-05	0	0 0.000000e+00	
##	CSI013	0	0	0 0.000000e+00	0	0 0.000000e+00	
##	CSI023	0	0	0 2.694152e-03	0	0 0.000000e+00	
##	CSI034	0	0	0 0.000000e+00	0	1.894908e-05	
##	CSI045	0	0	0 0.000000e+00	0	6.530186e-05	
##	CSI056	0	0	0 0.000000e+00	0	1.371500e-04	
##	CSI066	0	0	0 0.000000e+00	0	7.667389e-05	
##		0tu01102	0tu01103	0tu01104	0tu01105	0tu01106	0tu01107
##	CSI002	0 2.860607e-04		0 0.000000e+00		0	0
##	CSI013	0 3.195807e-04		0 0.000000e+00		0	0
##	CSI023	0 3.265639e-04		0 0.000000e+00		0	0
##	CSI034	0 1.042200e-03		0 1.894908e-05		0	0
##	CSI045	0 0.000000e+00		0 1.371339e-03		0	0
##	CSI056	0 0.000000e+00		0 3.918572e-05		0	0
##	CSI066	0 0.000000e+00		0 2.875271e-04		0	0
##		0tu01108	0tu01109	0tu01110	0tu01111	0tu01112	
##	CSI002	0	0 0.000000e+00	0.000000e+00	2.724387e-05		
##	CSI013	0	0 0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI023	0	0 0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI034	0	0 0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI045	0	0 0.000000e+00	3.265093e-04	2.285565e-04		
##	CSI056	0	0 0.000000e+00	1.077607e-03	4.310429e-04		
##	CSI066	0	0 1.916847e-05	2.875271e-04	2.491901e-04		
##		0tu01113	0tu01114	0tu01115	0tu01116	0tu01117	0tu01118
##	CSI002	1.362194e-05	0	0 1.362194e-05	0	0	0
##	CSI013	9.587421e-05	0	0 1.597904e-04	0	0	0
##	CSI023	2.041025e-05	0	0 0.000000e+00	0	0	0
##	CSI034	2.842363e-04	0	0 5.684725e-04	0	0	0
##	CSI045	6.530186e-05	0	0 2.612074e-04	0	0	0
##	CSI056	7.837144e-05	0	0 1.567429e-04	0	0	0
##	CSI066	1.916847e-04	0	0 4.217064e-04	0	0	0
##		0tu01119	0tu01120	0tu01121	0tu01122	0tu01123	
##	CSI002	0.000000e+00	5.448775e-05	2.451949e-04	0	0 0.000000e+00	
##	CSI013	0.000000e+00	6.391614e-05	9.587421e-04	0	0 0.000000e+00	
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0	0 0.000000e+00	
##	CSI034	0.000000e+00	1.515927e-04	8.148106e-04	0	0 0.000000e+00	
##	CSI045	9.795279e-05	0.000000e+00	1.632546e-04	0	3.265093e-05	
##	CSI056	2.155215e-04	5.877858e-05	1.763357e-04	0	2.743000e-04	
##	CSI066	2.300217e-04	2.491901e-04	7.667389e-05	0	3.833694e-05	
##		0tu01124	0tu01125	0tu01126	0tu01127	0tu01128	
##	CSI002	0.000000e+00	0 0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI013	0.000000e+00	0 0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI023	0.000000e+00	0 0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI034	0.000000e+00	0 0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI045	3.265093e-05	0 0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI056	9.796430e-05	0 0.000000e+00	0.000000e+00	0.000000e+00		

##	CSI066	7.667389e-05	0	1.916847e-05	0.000000e+00	3.833694e-05	
##		0tu01129	0tu01130	0tu01131	0tu01132	0tu01133	0tu01134
##	CSI002	0	0.000000e+00	0	0.000000e+00	0	1.362194e-05
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI034	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI045	0	2.285565e-04	0	0.000000e+00	0	1.198289e-02
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI066	0	3.833694e-05	0	0.000000e+00	0	1.916847e-05
##		0tu01135	0tu01136	0tu01137	0tu01138	0tu01139	0tu01140
##	CSI002	0	0	0	9.535356e-05	0	0.000000e+00
##	CSI013	0	0	0	6.391614e-04	0	6.391614e-05
##	CSI023	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI034	0	0	0	3.410835e-04	0	0.000000e+00
##	CSI045	0	0	0	5.550658e-04	0	0.000000e+00
##	CSI056	0	0	0	0.000000e+00	0	7.837144e-05
##	CSI066	0	0	0	0.000000e+00	0	0.000000e+00
##		0tu01141	0tu01142	0tu01143	0tu01144	0tu01145	0tu01146
##	CSI002	0.000000e+00	0	4.086581e-04	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	6.391614e-05	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	2.041025e-05	0.000000e+00	0	0
##	CSI034	0.000000e+00	0	2.463381e-04	5.684725e-05	0	0
##	CSI045	0.000000e+00	0	6.530186e-05	0.000000e+00	0	0
##	CSI056	2.351143e-04	0	1.959286e-05	0.000000e+00	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##		0tu01147	0tu01148	0tu01149	0tu01150	0tu01151	
##	CSI002	0.0000000000	0.0001907071	0	0.000000e+00	0.000000e+00	
##	CSI013	0.0000000000	0.0001917484	0	0.000000e+00	0.000000e+00	
##	CSI023	0.0000000000	0.0000000000	0	0.000000e+00	0.000000e+00	
##	CSI034	0.0000000000	0.0003979308	0	0.000000e+00	0.000000e+00	
##	CSI045	0.0001632546	0.0000000000	0	9.795279e-05	0.000000e+00	
##	CSI056	0.0006661573	0.0000000000	0	9.796430e-05	3.918572e-05	
##	CSI066	0.0000000000	0.0000000000	0	1.725162e-04	0.000000e+00	
##		0tu01152	0tu01153	0tu01154	0tu01155	0tu01156	0tu01157
##	CSI002	9.535356e-05	1.362194e-04	0	0	0	0
##	CSI013	1.597904e-04	1.597904e-04	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	5.305743e-04	0.000000e+00	0	0	0	0
##	CSI045	5.877167e-04	0.000000e+00	0	0	0	0
##	CSI056	3.918572e-05	1.959286e-05	0	0	0	0
##	CSI066	1.073434e-03	0.000000e+00	0	0	0	0
##		0tu01158	0tu01159	0tu01160	0tu01161	0tu01162	0tu01163
##	CSI002	5.448775e-05	1.362194e-05	0.000000e+00	0	0	0
##	CSI013	2.237065e-04	0.000000e+00	0.000000e+00	0	0	0
##	CSI023	4.082049e-05	0.000000e+00	2.449230e-04	0	0	0
##	CSI034	3.031853e-04	3.979308e-04	0.000000e+00	0	0	0
##	CSI045	0.000000e+00	5.224149e-04	3.265093e-05	0	0	0
##	CSI056	0.000000e+00	1.763357e-04	3.918572e-05	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##		0tu01164	0tu01165	0tu01166	0tu01167	0tu01168	0tu01169
##	CSI002	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0

##	CSI045	1.632546e-04	0	3.265093e-05	0.000000e+00	0	0	
##	CSI056	7.837144e-05	0	5.877858e-05	4.094908e-03	0	0	
##	CSI066	7.667389e-05	0	9.009182e-04	7.667389e-05	0	0	
##		Otu01170	Otu01171	Otu01172	Otu01173	Otu01174		
##	CSI002	0	0.000000e+00	0	0.000000e+00	1.362194e-04		
##	CSI013	0	0.000000e+00	0	0.000000e+00	1.150491e-03		
##	CSI023	0	0.000000e+00	0	2.041025e-05	4.082049e-05		
##	CSI034	0	0.000000e+00	0	2.273890e-04	4.358289e-04		
##	CSI045	0	0.000000e+00	0	0.000000e+00	0.000000e+00		
##	CSI056	0	3.918572e-05	0	1.959286e-05	0.000000e+00		
##	CSI066	0	0.000000e+00	0	0.000000e+00	0.000000e+00		
##		Otu01175	Otu01176	Otu01177	Otu01178	Otu01179		
##	CSI002	2.315729e-04	0.000000e+00	1.907071e-04	0.0000000000	1.225974e-04		
##	CSI013	2.556646e-04	0.000000e+00	6.391614e-05	0.0000000000	0.000000e+00		
##	CSI023	1.020512e-04	0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00		
##	CSI034	7.200652e-04	0.000000e+00	7.579634e-05	0.0001705418	1.326436e-04		
##	CSI045	0.000000e+00	0.000000e+00	6.530186e-05	0.0000000000	9.795279e-05		
##	CSI056	0.000000e+00	0.000000e+00	1.430279e-03	0.0000000000	5.877858e-05		
##	CSI066	0.000000e+00	0.000000e+00	1.150108e-04	0.0000000000	1.916847e-05		
##		Otu01180	Otu01181	Otu01182	Otu01183	Otu01184	Otu01185	
##	CSI002	2.179510e-04	0.000000e+00	0	0	2.315729e-04	0	
##	CSI013	2.237065e-04	0.000000e+00	0	0	1.278323e-04	0	
##	CSI023	2.041025e-05	0.000000e+00	0	0	0.000000e+00	0	
##	CSI034	4.737271e-04	0.000000e+00	0	0	1.800163e-03	0	
##	CSI045	0.000000e+00	3.265093e-05	0	0	6.530186e-05	0	
##	CSI056	1.959286e-05	1.567429e-04	0	0	0.000000e+00	0	
##	CSI066	0.000000e+00	1.916847e-05	0	0	0.000000e+00	0	
##		Otu01186	Otu01187	Otu01188	Otu01189	Otu01190	Otu01191	Otu01192
##	CSI002	0	0	0	5.448775e-05	0	0	0
##	CSI013	0	0	0	1.278323e-04	0	0	0
##	CSI023	0	0	0	2.041025e-05	0	0	0
##	CSI034	0	0	0	1.572774e-03	0	0	0
##	CSI045	0	0	0	3.265093e-05	0	0	0
##	CSI056	0	0	0	9.796430e-04	0	0	0
##	CSI066	0	0	0	3.833694e-04	0	0	0
##		Otu01193	Otu01194	Otu01195	Otu01196	Otu01197	Otu01198	
##	CSI002	5.584994e-04	0	0	0	0.000000e+00	2.724387e-05	
##	CSI013	9.587421e-05	0	0	0	6.391614e-05	2.876226e-04	
##	CSI023	2.041025e-05	0	0	0	0.000000e+00	0.000000e+00	
##	CSI034	3.221344e-04	0	0	0	3.789817e-05	5.116253e-04	
##	CSI045	0.000000e+00	0	0	0	9.795279e-05	0.000000e+00	
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI066	1.916847e-05	0	0	0	0.000000e+00	0.000000e+00	
##		Otu01199	Otu01200	Otu01201	Otu01202	Otu01203	Otu01204	
##	CSI002	0	0	0	0.000000e+00	0	0	
##	CSI013	0	0	0	3.195807e-05	0	0	
##	CSI023	0	0	0	0.000000e+00	0	0	
##	CSI034	0	0	0	0.000000e+00	0	0	
##	CSI045	0	0	0	0.000000e+00	0	0	
##	CSI056	0	0	0	0.000000e+00	0	0	
##	CSI066	0	0	0	0.000000e+00	0	0	
##		Otu01205	Otu01206	Otu01207	Otu01208	Otu01209		
##	CSI002	0.000000e+00	0.000000e+00	1.362194e-05	0	0.000000e+00		
##	CSI013	0.000000e+00	0.000000e+00	6.391614e-05	0	0.000000e+00		



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## CSI023 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI034 0.000000e+00 5.684725e-05 0.000000e+00      0 0.000000e+00
## CSI045 0.000000e+00 5.224149e-04 0.000000e+00      0 1.632546e-04
## CSI056 0.000000e+00 3.526715e-04 0.000000e+00      0 1.175572e-04
## CSI066 3.833694e-05 7.667389e-04 0.000000e+00      0 3.833694e-05
##      0tu01210      0tu01211 0tu01212      0tu01213 0tu01214      0tu01215
## CSI002      0 0.0000000000      0 1.089755e-04      0 4.086581e-05
## CSI013      0 0.0000000000      0 6.391614e-05      0 0.000000e+00
## CSI023      0 0.0000000000      0 1.020512e-04      0 0.000000e+00
## CSI034      0 0.0000000000      0 0.000000e+00      0 3.600326e-04
## CSI045      0 0.0009142260      0 0.000000e+00      0 1.959056e-04
## CSI056      0 0.0002938929      0 1.959286e-05      0 1.371500e-04
## CSI066      0 0.0000000000      0 0.000000e+00      0 9.584236e-05
##      0tu01216      0tu01217 0tu01218 0tu01219      0tu01220
## CSI002 0.000000e+00 6.129872e-04      0      0 0.000000e+00
## CSI013 0.000000e+00 5.432872e-04      0      0 0.000000e+00
## CSI023 0.000000e+00 1.632820e-04      0      0 0.000000e+00
## CSI034 0.000000e+00 7.011161e-04      0      0 0.000000e+00
## CSI045 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI056 0.000000e+00 1.959286e-05      0      0 1.567429e-04
## CSI066 4.408748e-03 0.000000e+00      0      0 5.750542e-05
##      0tu01221 0tu01222 0tu01223 0tu01224      0tu01225      0tu01226
## CSI002 2.179510e-04      0      0      0 0.000000e+00 0.000000e+00
## CSI013 7.030776e-04      0      0      0 0.000000e+00 3.195807e-05
## CSI023 8.164098e-05      0      0      0 0.000000e+00 0.000000e+00
## CSI034 2.652872e-04      0      0      0 0.000000e+00 1.894908e-05
## CSI045 0.000000e+00      0      0      0 9.795279e-05 1.926405e-03
## CSI056 0.000000e+00      0      0      0 1.567429e-04 0.000000e+00
## CSI066 0.000000e+00      0      0      0 2.683586e-04 3.642010e-04
##      0tu01227      0tu01228 0tu01229 0tu01230      0tu01231 0tu01232
## CSI002 0.0001907071 0.000000e+00      0      0 2.724387e-05      0
## CSI013 0.0001597904 0.000000e+00      0      0 9.587421e-05      0
## CSI023 0.0000000000 0.000000e+00      0      0 4.082049e-05      0
## CSI034 0.0005305743 0.000000e+00      0      0 3.789817e-05      0
## CSI045 0.0000000000 0.000000e+00      0      0 0.000000e+00      0
## CSI056 0.0000000000 0.000000e+00      0      0 4.702286e-04      0
## CSI066 0.0000000000 0.000000e+00      0      0 0.000000e+00      0
##      0tu01233 0tu01234 0tu01235      0tu01236 0tu01237      0tu01238
## CSI002 0.000000e+00      0      0 1.362194e-05      0 0.000000e+00
## CSI013 0.000000e+00      0      0 1.917484e-04      0 0.000000e+00
## CSI023 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI034 0.000000e+00      0      0 0.000000e+00      0 1.894908e-05
## CSI045 3.918111e-04      0      0 0.000000e+00      0 0.000000e+00
## CSI056 4.114501e-04      0      0 5.877858e-05      0 0.000000e+00
## CSI066 1.916847e-04      0      0 5.750542e-05      0 0.000000e+00
##      0tu01239 0tu01240      0tu01241 0tu01242      0tu01243 0tu01244
## CSI002      0      0 9.535356e-05      0 0.000000e+00      0
## CSI013      0      0 9.587421e-05      0 0.000000e+00      0
## CSI023      0      0 2.041025e-05      0 0.000000e+00      0
## CSI034      0      0 2.084399e-04      0 0.000000e+00      0
## CSI045      0      0 0.000000e+00      0 0.000000e+00      0
## CSI056      0      0 0.000000e+00      0 0.000000e+00      0
## CSI066      0      0 1.916847e-05      0 9.584236e-05      0
##      0tu01245 0tu01246 0tu01247      0tu01248 0tu01249 0tu01250

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##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI034	7.579634e-05	0	0	1.894908e-05	0	0
##	CSI045	3.265093e-05	0	0	0.000000e+00	0	0
##	CSI056	3.722643e-04	0	0	1.959286e-05	0	0
##	CSI066	3.833694e-04	0	0	0.000000e+00	0	0
##		Otu01251	Otu01252	Otu01253	Otu01254	Otu01255	Otu01256
##	CSI002	0	0.00000000	0	0	5.448775e-05	0.000000e+00
##	CSI013	0	0.00000000	0	0	9.587421e-05	6.391614e-05
##	CSI023	0	0.00000000	0	0	2.041025e-05	0.000000e+00
##	CSI034	0	0.00000000	0	0	0.000000e+00	0.000000e+00
##	CSI045	0	0.00000000	0	0	0.000000e+00	6.530186e-05
##	CSI056	0	0.00000000	0	0	1.763357e-04	1.371500e-03
##	CSI066	0	0.00000000	0	0	3.833694e-05	1.150108e-04
##		Otu01257	Otu01258	Otu01259	Otu01260	Otu01261	
##	CSI002	0	0.000000e+00	0	1.362194e-04	0.000000e+00	
##	CSI013	0	0.000000e+00	0	1.597904e-04	0.000000e+00	
##	CSI023	0	2.041025e-05	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0.000000e+00	0	2.842363e-04	0.000000e+00	
##	CSI045	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0.000000e+00	0	1.959286e-05	1.959286e-05	
##	CSI066	0	0.000000e+00	0	7.667389e-05	0.000000e+00	
##		Otu01262	Otu01263	Otu01264	Otu01265	Otu01266	Otu01267
##	CSI002	0.000000e+00	4.086581e-05	0	0	1.362194e-05	0
##	CSI013	3.195807e-05	1.917484e-04	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	3.789817e-05	2.273890e-04	0	0	1.894908e-05	0
##	CSI045	0.000000e+00	3.265093e-05	0	0	1.632546e-04	0
##	CSI056	3.918572e-05	1.959286e-05	0	0	2.155215e-04	0
##	CSI066	7.667389e-05	1.725162e-04	0	0	9.584236e-05	0
##		Otu01268	Otu01269	Otu01270	Otu01271	Otu01272	Otu01273
##	CSI002	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI013	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI023	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI034	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI045	0	0	0	9.795279e-04	0	1.959056e-04
##	CSI056	0	0	0	1.959286e-05	0	3.918572e-05
##	CSI066	0	0	0	0.000000e+00	0	0.000000e+00
##		Otu01274	Otu01275	Otu01276	Otu01277	Otu01278	Otu01279
##	CSI002	0	0.0000000000	0.000000e+00	0	0	0
##	CSI013	0	0.0000000000	0.000000e+00	0	0	0
##	CSI023	0	0.0000000000	0.000000e+00	0	0	0
##	CSI034	0	0.0000000000	0.000000e+00	0	0	0
##	CSI045	0	0.0000000000	6.530186e-05	0	0	0
##	CSI056	0	0.0008620859	0.000000e+00	0	0	0
##	CSI066	0	0.0001916847	0.000000e+00	0	0	0
##		Otu01280	Otu01281	Otu01282	Otu01283	Otu01284	Otu01285
##	CSI002	0.000000e+00	0	0	0	0	4.086581e-05
##	CSI013	0.000000e+00	0	0	0	0	3.195807e-05
##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI034	0.000000e+00	0	0	0	0	9.474542e-05
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	0	1.763357e-04

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## CSI066 0.000000e+00      0      0      0      0 0.000000e+00
##      0tu01286 0tu01287 0tu01288 0tu01289 0tu01290      0tu01291 0tu01292
## CSI002      0      0      0      0      0 0.000000e+00      0
## CSI013      0      0      0      0      0 0.000000e+00      0
## CSI023      0      0      0      0      0 0.000000e+00      0
## CSI034      0      0      0      0      0 0.000000e+00      0
## CSI045      0      0      0      0      0 0.000000e+00      0
## CSI056      0      0      0      0      0 0.000000e+00      0
## CSI066      0      0      0      0      0 0.000000e+00      0
##      0tu01293 0tu01294 0tu01295 0tu01296      0tu01297 0tu01298 0tu01299
## CSI002      0      0      0      0 1.362194e-05      0      0
## CSI013      0      0      0      0 3.195807e-05      0      0
## CSI023      0      0      0      0 0.000000e+00      0      0
## CSI034      0      0      0      0 2.084399e-04      0      0
## CSI045      0      0      0      0 0.000000e+00      0      0
## CSI056      0      0      0      0 1.077607e-03      0      0
## CSI066      0      0      0      0 0.000000e+00      0      0
##      0tu01300 0tu01301      0tu01302 0tu01303 0tu01304 0tu01305
## CSI002      0      0 0.0000000000      0      0      0
## CSI013      0      0 0.0000000000      0      0      0
## CSI023      0      0 0.0000000000      0      0      0
## CSI034      0      0 0.0000000000      0      0      0
## CSI045      0      0 0.0000000000      0      0      0
## CSI056      0      0 0.0000000000      0      0      0
## CSI066      0      0 0.0002683586      0      0      0
##      0tu01306 0tu01307 0tu01308 0tu01309 0tu01310      0tu01311
## CSI002 0.0000000000      0      0      0      0 0.000000e+00
## CSI013 0.0000000000      0      0      0      0 0.000000e+00
## CSI023 0.0000000000      0      0      0      0 0.000000e+00
## CSI034 0.0000000000      0      0      0      0 0.000000e+00
## CSI045 0.0000000000      0      0      0      0 0.000000e+00
## CSI056 0.0000000000      0      0      0      0 1.959286e-05
## CSI066 0.0000000000      0      0      0      0 0.000000e+00
##      0tu01312      0tu01313 0tu01314      0tu01315      0tu01316
## CSI002      0 0.0000000000      0 0.000000e+00 0.0000000000
## CSI013      0 0.0000000000      0 0.000000e+00 0.0000000000
## CSI023      0 0.0000000000      0 0.000000e+00 0.0000000000
## CSI034      0 0.0000000000      0 0.000000e+00 0.0000000000
## CSI045      0 0.0006530186      0 0.000000e+00 0.0000000000
## CSI056      0 0.0000000000      0 4.898215e-04 0.0000000000
## CSI066      0 0.0000000000      0 4.792118e-04 0.0005175487
##      0tu01317 0tu01318      0tu01319      0tu01320 0tu01321
## CSI002 6.810968e-05      0 0.000000e+00 0.000000e+00      0
## CSI013 3.834969e-04      0 0.000000e+00 0.000000e+00      0
## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI034 6.253198e-04      0 3.789817e-05 0.000000e+00      0
## CSI045 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI056 0.000000e+00      0 1.959286e-05 5.486001e-04      0
## CSI066 0.000000e+00      0 0.000000e+00 5.750542e-05      0
##      0tu01322      0tu01323 0tu01324      0tu01325 0tu01326 0tu01327
## CSI002 0.000000e+00 0.000000e+00      0 2.724387e-05      0      0
## CSI013 0.000000e+00 0.000000e+00      0 2.237065e-04      0      0
## CSI023 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI034 0.000000e+00 0.000000e+00      0 1.705418e-04      0      0

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## CSI045 1.273386e-03 3.265093e-05      0 0.000000e+00      0      0
## CSI056 3.918572e-05 0.000000e+00      0 0.000000e+00      0      0
## CSI066 1.916847e-05 1.916847e-05      0 9.584236e-05      0      0
##      0tu01328      0tu01329 0tu01330      0tu01331 0tu01332      0tu01333
## CSI002      0 4.086581e-05      0 4.631459e-04      0 0.000000e+00
## CSI013      0 2.237065e-04      0 3.834969e-04      0 0.000000e+00
## CSI023      0 1.836922e-04      0 0.000000e+00      0 0.000000e+00
## CSI034      0 0.000000e+00      0 1.326436e-04      0 0.000000e+00
## CSI045      0 3.265093e-05      0 0.000000e+00      0 1.632546e-04
## CSI056      0 5.877858e-05      0 2.155215e-04      0 2.938929e-04
## CSI066      0 0.000000e+00      0 9.584236e-05      0 1.916847e-05
##      0tu01334 0tu01335      0tu01336      0tu01337      0tu01338
## CSI002      0      0 1.498413e-04 0.000000e+00 8.173162e-05
## CSI013      0      0 1.917484e-04 0.000000e+00 3.195807e-05
## CSI023      0      0 2.041025e-05 0.000000e+00 0.000000e+00
## CSI034      0      0 1.894908e-04 0.000000e+00 1.894908e-05
## CSI045      0      0 6.530186e-05 0.000000e+00 0.000000e+00
## CSI056      0      0 1.959286e-05 0.000000e+00 3.918572e-05
## CSI066      0      0 1.341793e-04 0.000000e+00 9.584236e-05
##      0tu01339      0tu01340      0tu01341 0tu01342      0tu01343
## CSI002 0.000000e+00 8.854259e-04 0.000000e+00      0 2.588168e-04
## CSI013 0.000000e+00 0.000000e+00 9.587421e-05      0 4.154549e-04
## CSI023 0.000000e+00 4.082049e-05 0.000000e+00      0 4.082049e-05
## CSI034 0.000000e+00 1.894908e-04 9.474542e-05      0 1.231690e-03
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00      0 3.265093e-05
## CSI056 0.000000e+00 0.000000e+00 0.000000e+00      0 1.175572e-04
## CSI066 0.000000e+00 0.000000e+00 1.916847e-05      0 0.000000e+00
##      0tu01344 0tu01345      0tu01346      0tu01347      0tu01348 0tu01349
## CSI002      0      0 0.000000e+00 3.541704e-04 5.040117e-04      0
## CSI013      0      0 0.000000e+00 4.474130e-04 1.597904e-04      0
## CSI023      0      0 0.000000e+00 0.000000e+00 1.428717e-04      0
## CSI034      0      0 1.894908e-05 4.168798e-04 2.652872e-04      0
## CSI045      0      0 3.265093e-05 0.000000e+00 1.306037e-04      0
## CSI056      0      0 1.391093e-03 0.000000e+00 0.000000e+00      0
## CSI066      0      0 0.000000e+00 0.000000e+00 1.150108e-04      0
##      0tu01350 0tu01351 0tu01352 0tu01353      0tu01354      0tu01355
## CSI002 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI013 0.000000e+00      0      0      0 0.000000e+00 9.587421e-05
## CSI023 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI034 0.000000e+00      0      0      0 0.000000e+00 5.684725e-05
## CSI045 0.000000e+00      0      0      0 1.632546e-04 0.000000e+00
## CSI056 7.837144e-05      0      0      0 2.351143e-04 1.763357e-04
## CSI066 2.683586e-04      0      0      0 1.150108e-04 0.000000e+00
##      0tu01356      0tu01357 0tu01358      0tu01359      0tu01360
## CSI002 0.000000e+00 5.448775e-05      0 0.0000000000 2.724387e-05
## CSI013 0.000000e+00 3.195807e-05      0 0.0000000000 3.195807e-05
## CSI023 0.000000e+00 0.000000e+00      0 0.0000000000 0.000000e+00
## CSI034 0.000000e+00 2.652872e-04      0 0.0000000000 1.136945e-04
## CSI045 2.612074e-04 2.285565e-04      0 0.0000000000 9.795279e-05
## CSI056 4.898215e-04 2.547072e-04      0 0.0000000000 5.486001e-04
## CSI066 9.584236e-05 1.341793e-04      0 0.0000000000 2.300217e-04
##      0tu01361      0tu01362      0tu01363      0tu01364 0tu01365
## CSI002      0 0.000000e+00 0.000000e+00 0.0000000000      0
## CSI013      0 0.000000e+00 0.000000e+00 0.0000000000      0

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##	CSI023	0	0.000000e+00	0.000000e+00	0.0000000000	0
##	CSI034	0	0.000000e+00	0.000000e+00	0.0001705418	0
##	CSI045	0	0.000000e+00	0.000000e+00	0.0000000000	0
##	CSI056	0	0.000000e+00	0.000000e+00	0.0000000000	0
##	CSI066	0	1.916847e-05	0.000000e+00	0.0000000000	0
##		0tu01366	0tu01367	0tu01368	0tu01369	0tu01370
##	CSI002	0.000000e+00	6.810968e-05	5.584994e-04	6.810968e-05	0
##	CSI013	0.000000e+00	9.587421e-05	1.597904e-04	0.000000e+00	0
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0
##	CSI034	0.000000e+00	1.894908e-05	9.664033e-04	0.000000e+00	0
##	CSI045	0.000000e+00	1.306037e-04	3.265093e-05	3.265093e-05	0
##	CSI056	0.000000e+00	9.796430e-05	0.000000e+00	0.000000e+00	0
##	CSI066	7.859073e-04	7.667389e-05	0.000000e+00	0.000000e+00	0
##		0tu01371	0tu01372	0tu01373	0tu01374	0tu01375
##	CSI002	2.724387e-05	0	0	1.362194e-05	0
##	CSI013	0.000000e+00	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	0	0.000000e+00	0
##	CSI045	1.306037e-04	0	0	3.265093e-05	0
##	CSI056	3.330786e-04	0	0	1.959286e-05	0
##	CSI066	0.000000e+00	0	0	2.108532e-04	0
##		0tu01377	0tu01378	0tu01379	0tu01380	0tu01381
##	CSI002	1.362194e-05	0	4.767678e-04	2.724387e-05	0
##	CSI013	0.000000e+00	0	2.876226e-04	2.237065e-04	0
##	CSI023	0.000000e+00	0	0.000000e+00	2.041025e-05	0
##	CSI034	7.579634e-05	0	4.168798e-04	0.000000e+00	0
##	CSI045	0.000000e+00	0	6.530186e-05	3.918111e-04	0
##	CSI056	5.877858e-05	0	7.837144e-05	5.877858e-05	0
##	CSI066	3.258640e-04	0	5.750542e-05	3.066955e-04	0
##		0tu01383	0tu01384	0tu01385	0tu01386	0tu01387
##	CSI002	0.000000e+00	1.634632e-04	0	0	1.362194e-04
##	CSI013	6.391614e-05	9.587421e-05	0	0	0.000000e+00
##	CSI023	0.000000e+00	6.123074e-05	0	0	0.000000e+00
##	CSI034	0.000000e+00	7.579634e-05	0	0	3.789817e-05
##	CSI045	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI056	0.000000e+00	3.467936e-03	0	0	5.877858e-05
##	CSI066	1.916847e-05	0.000000e+00	0	0	1.916847e-05
##		0tu01388	0tu01389	0tu01390	0tu01391	0tu01392
##	CSI002	0.000000e+00	0	0	1.089755e-04	0
##	CSI013	0.000000e+00	0	0	6.391614e-05	0
##	CSI023	0.000000e+00	0	0	2.041025e-05	0
##	CSI034	0.000000e+00	0	0	2.463381e-04	0
##	CSI045	1.306037e-04	0	0	0.000000e+00	0
##	CSI056	3.722643e-04	0	0	0.000000e+00	0
##	CSI066	0.000000e+00	0	0	0.000000e+00	0
##		0tu01394	0tu01395	0tu01396	0tu01397	0tu01398
##	CSI002	0.000000e+00	0	0	0	0.000000e+00
##	CSI013	0.000000e+00	0	0	0	0.000000e+00
##	CSI023	0.000000e+00	0	0	0	0.000000e+00
##	CSI034	0.000000e+00	0	0	0	0.000000e+00
##	CSI045	9.795279e-05	0	0	0	0.000000e+00
##	CSI056	1.959286e-05	0	0	0	2.743000e-04
##	CSI066	1.916847e-05	0	0	0	5.750542e-05
##		0tu01400	0tu01401	0tu01402	0tu01403	0tu01404
##						0tu01405

##	CSI002	0	0.0000000000	0	0	6.810968e-05	4.086581e-05
##	CSI013	0	0.0002237065	0	0	0.000000e+00	1.917484e-04
##	CSI023	0	0.0000000000	0	0	0.000000e+00	0.000000e+00
##	CSI034	0	0.0000000000	0	0	0.000000e+00	1.894908e-04
##	CSI045	0	0.0000000000	0	0	2.285565e-04	2.612074e-04
##	CSI056	0	0.0000000000	0	0	0.000000e+00	3.918572e-05
##	CSI066	0	0.0000000000	0	0	5.750542e-05	7.667389e-05
##	Otu01406	Otu01407	Otu01408	Otu01409	Otu01410	Otu01411	
##	CSI002	0	0	4.903897e-04	0	0.000000e+00	0.000000e+00
##	CSI013	0	0	1.150491e-03	0	0.000000e+00	0.000000e+00
##	CSI023	0	0	8.164098e-05	0	0.000000e+00	0.000000e+00
##	CSI034	0	0	3.221344e-04	0	3.789817e-05	1.136945e-04
##	CSI045	0	0	0.000000e+00	0	2.612074e-04	0.000000e+00
##	CSI056	0	0	0.000000e+00	0	5.877858e-05	1.959286e-05
##	CSI066	0	0	0.000000e+00	0	1.916847e-05	0.000000e+00
##	Otu01412	Otu01413	Otu01414	Otu01415	Otu01416	Otu01417	
##	CSI002	0	5.448775e-05	0	0	0	0
##	CSI013	0	3.195807e-05	0	0	0	0
##	CSI023	0	4.082049e-04	0	0	0	0
##	CSI034	0	1.894908e-05	0	0	0	0
##	CSI045	0	2.285565e-04	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	3.833694e-05	0	0	0	0
##	Otu01418	Otu01419	Otu01420	Otu01421	Otu01422	Otu01423	
##	CSI002	0.0002860607	0	0	0	0	0.000000e+00
##	CSI013	0.0003834969	0	0	0	0	0.000000e+00
##	CSI023	0.0000000000	0	0	0	0	0.000000e+00
##	CSI034	0.0003600326	0	0	0	0	5.684725e-05
##	CSI045	0.0000000000	0	0	0	0	0.000000e+00
##	CSI056	0.0004114501	0	0	0	0	0.000000e+00
##	CSI066	0.0000000000	0	0	0	0	0.000000e+00
##	Otu01424	Otu01425	Otu01426	Otu01427	Otu01428		
##	CSI002	6.810968e-05	1.770852e-04	0	0.000000e+00	0.000000e+00	
##	CSI013	0.000000e+00	9.587421e-05	0	0.000000e+00	0.000000e+00	
##	CSI023	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI034	0.000000e+00	5.684725e-05	0	0.000000e+00	1.894908e-05	
##	CSI045	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI056	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI066	5.750542e-05	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	Otu01429	Otu01430	Otu01431	Otu01432	Otu01433	Otu01434	
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	1.188445e-03	0	0	0	0
##	Otu01435	Otu01436	Otu01437	Otu01438	Otu01439		
##	CSI002	0.000000e+00	2.724387e-05	2.724387e-05	2.724387e-05	0	
##	CSI013	0.000000e+00	3.195807e-04	6.711195e-04	3.195807e-05	0	
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI034	1.894908e-05	1.894908e-05	1.894908e-04	9.474542e-05	0	
##	CSI045	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI056	0.000000e+00	0.000000e+00	0.000000e+00	8.229001e-04	0	

##	CSI066	0.000000e+00	1.916847e-05	0.000000e+00	5.558857e-04	0		
##		0tu01440	0tu01441	0tu01442	0tu01443	0tu01444	0tu01445	
##	CSI002	0.000000e+00	0	1.362194e-05	0	0	0.0000000000	
##	CSI013	0.000000e+00	0	3.195807e-05	0	0	0.0000000000	
##	CSI023	0.000000e+00	0	1.020512e-04	0	0	0.0000000000	
##	CSI034	0.000000e+00	0	4.547780e-04	0	0	0.0000000000	
##	CSI045	3.265093e-05	0	0.000000e+00	0	0	0.0000000000	
##	CSI056	3.918572e-05	0	0.000000e+00	0	0	0.0000000000	
##	CSI066	1.916847e-05	0	0.000000e+00	0	0	0.0000000000	
##		0tu01446	0tu01447	0tu01448	0tu01449	0tu01450		
##	CSI002	0	0.000000e+00	0.000000e+00	1.362194e-05	0.0004903897		
##	CSI013	0	0.000000e+00	0.000000e+00	0.000000e+00	0.0003195807		
##	CSI023	0	2.041025e-05	0.000000e+00	0.000000e+00	0.0000000000		
##	CSI034	0	0.000000e+00	1.894908e-05	0.000000e+00	0.0010990469		
##	CSI045	0	0.000000e+00	0.000000e+00	6.530186e-05	0.0000000000		
##	CSI056	0	0.000000e+00	0.000000e+00	3.918572e-05	0.0000000000		
##	CSI066	0	0.000000e+00	0.000000e+00	3.833694e-05	0.0000000000		
##		0tu01451	0tu01452	0tu01453	0tu01454	0tu01455	0tu01456	
##	CSI002	0	1.362194e-04	0	9.535356e-05	2.724387e-05	0	
##	CSI013	0	3.195807e-05	0	2.237065e-04	9.587421e-05	0	
##	CSI023	0	2.041025e-05	0	6.123074e-05	0.000000e+00	0	
##	CSI034	0	5.116253e-04	0	2.463381e-04	1.515927e-04	0	
##	CSI045	0	0.000000e+00	0	0.000000e+00	3.265093e-05	0	
##	CSI056	0	5.877858e-05	0	2.743000e-04	1.332315e-03	0	
##	CSI066	0	0.000000e+00	0	5.750542e-05	0.000000e+00	0	
##		0tu01457	0tu01458	0tu01459	0tu01460	0tu01461	0tu01462	
##	CSI002	2.315729e-04	0.000000e+00	1.362194e-05	0	0	0	
##	CSI013	2.556646e-04	0.000000e+00	0.000000e+00	0	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	CSI034	8.527088e-04	0.000000e+00	1.515927e-04	0	0	0	
##	CSI045	0.000000e+00	0.000000e+00	6.530186e-05	0	0	0	
##	CSI056	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	CSI066	0.000000e+00	3.833694e-05	0.000000e+00	0	0	0	
##		0tu01463	0tu01464	0tu01465	0tu01466	0tu01467		
##	CSI002	0.000000e+00	1.362194e-05	2.724387e-05	0	0.000000e+00		
##	CSI013	0.000000e+00	4.474130e-04	3.195807e-05	0	3.195807e-05		
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0	0.000000e+00		
##	CSI034	0.000000e+00	5.684725e-05	0.000000e+00	0	0.000000e+00		
##	CSI045	1.306037e-04	0.000000e+00	0.000000e+00	0	6.530186e-05		
##	CSI056	3.722643e-04	0.000000e+00	6.073787e-04	0	0.000000e+00		
##	CSI066	1.648489e-03	0.000000e+00	0.000000e+00	0	1.533478e-04		
##		0tu01468	0tu01469	0tu01470	0tu01471	0tu01472	0tu01473	0tu01474
##	CSI002	0	0	0	6.266091e-04	0	0	0
##	CSI013	0	0	0	1.278323e-04	0	0	0
##	CSI023	0	0	0	8.164098e-05	0	0	0
##	CSI034	0	0	0	5.305743e-04	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu01475	0tu01476	0tu01477	0tu01478	0tu01479		
##	CSI002	4.086581e-05	0.0000000000	2.724387e-05	6.810968e-05	0		
##	CSI013	3.195807e-05	0.0000000000	3.195807e-05	2.237065e-04	0		
##	CSI023	0.000000e+00	0.0000000000	0.000000e+00	4.082049e-05	0		
##	CSI034	5.684725e-05	0.0000000000	7.579634e-05	3.031853e-04	0		

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## CSI045 0.000000e+00 0.0006203676 1.959056e-04 0.000000e+00 0
## CSI056 1.959286e-05 0.0000000000 1.959286e-05 1.959286e-05 0
## CSI066 0.000000e+00 0.0003066955 3.258640e-04 1.150108e-04 0
##      0tu01480      0tu01481      0tu01482      0tu01483 0tu01484
## CSI002 1.634632e-04 0.000000e+00 2.724387e-04 1.498413e-04 0
## CSI013 2.237065e-04 0.000000e+00 6.391614e-04 2.237065e-04 0
## CSI023 0.000000e+00 0.000000e+00 4.082049e-05 0.000000e+00 0
## CSI034 9.095560e-04 3.789817e-05 3.600326e-04 2.273890e-04 0
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00 6.530186e-05 0
## CSI056 0.000000e+00 0.000000e+00 0.000000e+00 1.959286e-05 0
## CSI066 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0
##      0tu01485 0tu01486      0tu01487 0tu01488      0tu01489 0tu01490
## CSI002 1.225974e-04      0 0.000000e+00      0 8.173162e-05      0
## CSI013 1.917484e-04      0 0.000000e+00      0 3.834969e-04      0
## CSI023 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI034 5.684725e-05      0 0.000000e+00      0 2.084399e-04      0
## CSI045 0.000000e+00      0 3.265093e-05      0 0.000000e+00      0
## CSI056 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI066 7.667389e-05      0 0.000000e+00      0 1.916847e-05      0
##      0tu01491      0tu01492      0tu01493 0tu01494 0tu01495      0tu01496
## CSI002      0 0.000000e+00 2.724387e-05      0      0 0.000000e+00
## CSI013      0 2.237065e-04 3.195807e-05      0      0 0.000000e+00
## CSI023      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI034      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI045      0 6.987299e-03 3.265093e-05      0      0 0.000000e+00
## CSI056      0 2.743000e-04 0.000000e+00      0      0 0.000000e+00
## CSI066      0 3.833694e-04 0.000000e+00      0      0 0.000000e+00
##      0tu01497 0tu01498 0tu01499 0tu01500 0tu01501 0tu01502 0tu01503
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu01504 0tu01505 0tu01506 0tu01507      0tu01508 0tu01509
## CSI002 6.810968e-05      0      0      0 0.000000e+00      0
## CSI013 3.195807e-05      0      0      0 3.195807e-05      0
## CSI023 0.000000e+00      0      0      0 0.000000e+00      0
## CSI034 1.326436e-04      0      0      0 0.000000e+00      0
## CSI045 0.000000e+00      0      0      0 0.000000e+00      0
## CSI056 0.000000e+00      0      0      0 0.000000e+00      0
## CSI066 0.000000e+00      0      0      0 0.000000e+00      0
##      0tu01510 0tu01511      0tu01512 0tu01513 0tu01514 0tu01515 0tu01516
## CSI002      0      0 2.724387e-04      0      0      0      0
## CSI013      0      0 3.195807e-04      0      0      0      0
## CSI023      0      0 2.041025e-05      0      0      0      0
## CSI034      0      0 5.116253e-04      0      0      0      0
## CSI045      0      0 0.000000e+00      0      0      0      0
## CSI056      0      0 5.877858e-05      0      0      0      0
## CSI066      0      0 3.833694e-05      0      0      0      0
##      0tu01517 0tu01518      0tu01519      0tu01520      0tu01521
## CSI002 2.724387e-05      0 0.000000e+00 0.000000e+00 1.362194e-04
## CSI013 3.515388e-04      0 0.000000e+00 0.000000e+00 1.597904e-04

```



##	CSI023	2.041025e-05	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI034	5.495234e-04	0	0.000000e+00	0.000000e+00	2.273890e-04	
##	CSI045	3.265093e-05	0	3.265093e-05	3.265093e-05	0.000000e+00	
##	CSI056	5.290072e-04	0	1.959286e-05	0.000000e+00	0.000000e+00	
##	CSI066	1.916847e-05	0	0.000000e+00	5.750542e-05	0.000000e+00	
##		0tu01522	0tu01523	0tu01524	0tu01525	0tu01526	0tu01527 0tu01528
##	CSI002	0	0	0	0	0.000000e+00	0 0
##	CSI013	0	0	0	0	3.195807e-05	0 0
##	CSI023	0	0	0	0	0.000000e+00	0 0
##	CSI034	0	0	0	0	0.000000e+00	0 0
##	CSI045	0	0	0	0	0.000000e+00	0 0
##	CSI056	0	0	0	0	3.134858e-04	0 0
##	CSI066	0	0	0	0	0.000000e+00	0 0
##		0tu01529	0tu01530	0tu01531	0tu01532	0tu01533	0tu01534
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	0.000000e+00	1.894908e-05	0	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu01535	0tu01536	0tu01537	0tu01538	0tu01539	0tu01540
##	CSI002	0	5.857433e-04	4.086581e-05	0	0	0
##	CSI013	0	7.989518e-04	1.917484e-04	0	0	0
##	CSI023	0	4.082049e-05	4.082049e-05	0	0	0
##	CSI034	0	1.515927e-04	3.600326e-04	0	0	0
##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI056	0	0.000000e+00	7.837144e-05	0	0	0
##	CSI066	0	0.000000e+00	3.833694e-05	0	0	0
##		0tu01541	0tu01542	0tu01543	0tu01544	0tu01545	0tu01546 0tu01547
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0
##	CSI023	0	0	0	0	0	0 0
##	CSI034	0	0	0	0	0	0 0
##	CSI045	0	0	0	0	0	0 0
##	CSI056	0	0	0	0	0	0 0
##	CSI066	0	0	0	0	0	0 0
##		0tu01548	0tu01549	0tu01550	0tu01551	0tu01552	0tu01553
##	CSI002	0	0	5.448775e-05	0	0	0.000000e+00
##	CSI013	0	0	1.278323e-04	0	0	1.917484e-04
##	CSI023	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	0	0	5.684725e-05	0	0	1.136945e-04
##	CSI045	0	0	0.000000e+00	0	0	3.265093e-05
##	CSI056	0	0	0.000000e+00	0	0	1.763357e-04
##	CSI066	0	0	0.000000e+00	0	0	0.000000e+00
##		0tu01554	0tu01555	0tu01556	0tu01557	0tu01558	0tu01559 0tu01560
##	CSI002	0	2.724387e-05	0	0	0	0 0
##	CSI013	0	1.278323e-04	0	0	0	0 0
##	CSI023	0	0.000000e+00	0	0	0	0 0
##	CSI034	0	3.789817e-05	0	0	0	0 0
##	CSI045	0	0.000000e+00	0	0	0	0 0
##	CSI056	0	5.877858e-05	0	0	0	0 0
##	CSI066	0	3.258640e-04	0	0	0	0 0
##		0tu01561	0tu01562	0tu01563	0tu01564	0tu01565	0tu01566

##	CSI002	0.0000000000	0.000000e+00	0	0.000000e+00	0	0
##	CSI013	0.0000000000	0.000000e+00	0	0.000000e+00	0	0
##	CSI023	0.0000000000	0.000000e+00	0	0.000000e+00	0	0
##	CSI034	0.0002084399	0.000000e+00	0	0.000000e+00	0	0
##	CSI045	0.0000000000	3.265093e-05	0	1.306037e-04	0	0
##	CSI056	0.0000000000	1.567429e-04	0	1.959286e-05	0	0
##	CSI066	0.0000000000	1.150108e-04	0	9.584236e-05	0	0
##		0tu01567	0tu01568	0tu01569	0tu01570	0tu01571	0tu01572
##	CSI002	0	0	0.000000e+00	0	1.498413e-04	0
##	CSI013	0	0	0.000000e+00	0	3.195807e-05	0
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI034	0	0	1.326436e-04	0	2.842363e-04	0
##	CSI045	0	0	0.000000e+00	0	6.530186e-05	0
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI066	0	0	0.000000e+00	0	1.916847e-05	0
##		0tu01573	0tu01574	0tu01575	0tu01576	0tu01577	
##	CSI002	0.000000e+00	0.0000000000	0.000000e+00	6.810968e-05	0.000000e+00	
##	CSI013	0.000000e+00	0.0000000000	0.000000e+00	3.195807e-05	3.195807e-05	
##	CSI023	0.000000e+00	0.0000000000	0.000000e+00	4.082049e-05	0.000000e+00	
##	CSI034	0.000000e+00	0.0000000000	0.000000e+00	3.410835e-04	0.000000e+00	
##	CSI045	1.306037e-04	0.0000000000	1.632546e-04	0.000000e+00	0.000000e+00	
##	CSI056	1.959286e-04	0.0000000000	2.938929e-04	3.330786e-04	1.371500e-04	
##	CSI066	0.000000e+00	0.0000000000	1.341793e-04	7.667389e-05	0.000000e+00	
##		0tu01578	0tu01579	0tu01580	0tu01581	0tu01582	0tu01583
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI013	0.000000e+00	0	3.195807e-05	0	0	0
##	CSI023	2.041025e-05	0	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0	1.894908e-05	0	0	0
##	CSI045	0.000000e+00	0	9.795279e-05	0	0	0
##	CSI056	0.000000e+00	0	1.763357e-04	0	0	0
##	CSI066	0.000000e+00	0	3.833694e-04	0	0	0
##		0tu01584	0tu01585	0tu01586	0tu01587	0tu01588	
##	CSI002	0.000000e+00	0.000000e+00	2.860607e-04	0	0.0000000000	
##	CSI013	0.000000e+00	0.000000e+00	6.391614e-05	0	0.0000000000	
##	CSI023	0.000000e+00	0.000000e+00	2.041025e-05	0	0.0000000000	
##	CSI034	0.000000e+00	0.000000e+00	2.842363e-04	0	0.0000000000	
##	CSI045	0.000000e+00	3.265093e-05	1.632546e-04	0	0.0000000000	
##	CSI056	1.959286e-05	9.012716e-04	9.796430e-05	0	0.0000000000	
##	CSI066	2.415227e-03	5.750542e-05	5.750542e-05	0	0.0000000000	
##		0tu01589	0tu01590	0tu01591	0tu01592	0tu01593	
##	CSI002	0.000000e+00	0.000000e+00	0	1.089755e-04	0	
##	CSI013	0.000000e+00	0.000000e+00	0	4.154549e-04	0	
##	CSI023	1.836922e-04	0.000000e+00	0	1.020512e-04	0	
##	CSI034	9.474542e-05	0.000000e+00	0	2.842363e-04	0	
##	CSI045	3.265093e-04	0.000000e+00	0	0.000000e+00	0	
##	CSI056	1.175572e-04	0.000000e+00	0	1.959286e-04	0	
##	CSI066	3.833694e-05	0.000000e+00	0	1.150108e-04	0	
##		0tu01594	0tu01595	0tu01596	0tu01597	0tu01598	
##	CSI002	0.000000e+00	2.724387e-05	5.448775e-05	0.000000e+00	0	
##	CSI013	0.000000e+00	0.000000e+00	9.587421e-04	0.000000e+00	0	
##	CSI023	0.000000e+00	0.000000e+00	2.041025e-05	0.000000e+00	0	
##	CSI034	0.000000e+00	5.684725e-05	1.326436e-04	0.000000e+00	0	
##	CSI045	0.000000e+00	0.000000e+00	9.795279e-05	0.000000e+00	0	
##	CSI056	5.877858e-05	3.918572e-05	3.918572e-05	1.567429e-04	0	

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## CSI066 0.000000e+00 0.000000e+00 4.217064e-04 1.341793e-04 0
##      0tu01599 0tu01600 0tu01601 0tu01602      0tu01603 0tu01604
## CSI002      0      0      0      0 2.724387e-05      0
## CSI013      0      0      0      0 0.000000e+00      0
## CSI023      0      0      0      0 0.000000e+00      0
## CSI034      0      0      0      0 0.000000e+00      0
## CSI045      0      0      0      0 0.000000e+00      0
## CSI056      0      0      0      0 1.371500e-04      0
## CSI066      0      0      0      0 1.916847e-05      0
##      0tu01605      0tu01606 0tu01607      0tu01608      0tu01609
## CSI002 2.724387e-05 0.000000e+00      0 0.000000e+00 0.003228399
## CSI013 6.391614e-05 3.195807e-05      0 0.000000e+00 0.000000000
## CSI023 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000000
## CSI034 4.168798e-04 0.000000e+00      0 0.000000e+00 0.000000000
## CSI045 0.000000e+00 0.000000e+00      0 6.530186e-05 0.000000000
## CSI056 0.000000e+00 2.331550e-03      0 3.918572e-05 0.000000000
## CSI066 1.916847e-05 0.000000e+00      0 1.916847e-05 0.000000000
##      0tu01610 0tu01611      0tu01612 0tu01613 0tu01614      0tu01615
## CSI002      0      0 5.448775e-05      0      0 0.000000000
## CSI013      0      0 3.195807e-05      0      0 0.0002556646
## CSI023      0      0 8.164098e-05      0      0 0.000000000
## CSI034      0      0 4.547780e-04      0      0 0.0010611487
## CSI045      0      0 0.000000e+00      0      0 0.000000000
## CSI056      0      0 2.547072e-04      0      0 0.000000000
## CSI066      0      0 3.833694e-05      0      0 0.000000000
##      0tu01616      0tu01617 0tu01618 0tu01619      0tu01620      0tu01621
## CSI002      0 1.362194e-05      0      0 5.448775e-05 0.000000e+00
## CSI013      0 0.000000e+00      0      0 6.391614e-05 0.000000e+00
## CSI023      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI034      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI045      0 0.000000e+00      0      0 0.000000e+00 6.530186e-05
## CSI056      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI066      0 0.000000e+00      0      0 0.000000e+00 1.150108e-04
##      0tu01622 0tu01623 0tu01624 0tu01625 0tu01626      0tu01627
## CSI002 5.448775e-05      0      0      0      0 1.089755e-04
## CSI013 6.391614e-05      0      0      0      0 1.597904e-04
## CSI023 0.000000e+00      0      0      0      0 4.082049e-05
## CSI034 3.789817e-05      0      0      0      0 2.273890e-04
## CSI045 0.000000e+00      0      0      0      0 0.000000e+00
## CSI056 0.000000e+00      0      0      0      0 0.000000e+00
## CSI066 0.000000e+00      0      0      0      0 1.916847e-05
##      0tu01628 0tu01629      0tu01630      0tu01631 0tu01632
## CSI002 1.362194e-05      0 0.000000e+00 0.000000e+00      0
## CSI013 0.000000e+00      0 6.391614e-05 0.000000e+00      0
## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI034 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI045 0.000000e+00      0 6.530186e-05 0.000000e+00      0
## CSI056 0.000000e+00      0 0.000000e+00 3.918572e-05      0
## CSI066 0.000000e+00      0 0.000000e+00 5.367172e-04      0
##      0tu01633 0tu01634 0tu01635 0tu01636      0tu01637      0tu01638
## CSI002 4.086581e-05      0      0      0 8.173162e-05 1.362194e-05
## CSI013 0.000000e+00      0      0      0 6.391614e-05 0.000000e+00
## CSI023 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI034 1.894908e-05      0      0      0 5.684725e-05 0.000000e+00

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## CSI045 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00      0      0      0 0.000000e+00 3.918572e-05
## CSI066 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
##      0tu01639 0tu01640      0tu01641 0tu01642 0tu01643 0tu01644
## CSI002 0.001975181      0 8.173162e-05      0      0      0
## CSI013 0.000000000      0 1.278323e-04      0      0      0
## CSI023 0.000000000      0 0.000000e+00      0      0      0
## CSI034 0.000000000      0 1.705418e-04      0      0      0
## CSI045 0.000000000      0 3.265093e-05      0      0      0
## CSI056 0.000000000      0 0.000000e+00      0      0      0
## CSI066 0.000000000      0 0.000000e+00      0      0      0
##      0tu01645      0tu01646      0tu01647 0tu01648      0tu01649
## CSI002 4.086581e-05 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI013 2.237065e-04 3.195807e-05 3.195807e-05      0 0.000000e+00
## CSI023 2.041025e-05 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI034 9.474542e-05 1.894908e-05 0.000000e+00      0 0.000000e+00
## CSI045 3.265093e-05 1.306037e-04 0.000000e+00      0 3.265093e-05
## CSI056 1.175572e-04 1.959286e-05 0.000000e+00      0 0.000000e+00
## CSI066 0.000000e+00 0.000000e+00 0.000000e+00      0 1.916847e-05
##      0tu01650      0tu01651      0tu01652      0tu01653      0tu01654
## CSI002      0 0.000000e+00 5.448775e-05 0.000000e+00 1.362194e-05
## CSI013      0 9.267841e-04 1.278323e-04 9.587421e-04 6.391614e-05
## CSI023      0 0.000000e+00 0.000000e+00 0.000000e+00 4.082049e-05
## CSI034      0 5.684725e-05 1.136945e-04 0.000000e+00 1.705418e-04
## CSI045      0 3.265093e-05 3.265093e-05 0.000000e+00 0.000000e+00
## CSI056      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI066      0 0.000000e+00 3.833694e-05 2.300217e-04 0.000000e+00
##      0tu01655 0tu01656 0tu01657 0tu01658 0tu01659      0tu01660
## CSI002      0      0      0      0      0 2.724387e-05
## CSI013      0      0      0      0      0 2.556646e-04
## CSI023      0      0      0      0      0 1.020512e-04
## CSI034      0      0      0      0      0 5.305743e-04
## CSI045      0      0      0      0      0 0.000000e+00
## CSI056      0      0      0      0      0 0.000000e+00
## CSI066      0      0      0      0      0 0.000000e+00
##      0tu01661      0tu01662 0tu01663 0tu01664 0tu01665      0tu01666
## CSI002 0.000000e+00 0.000000e+00      0      0      0 4.086581e-05
## CSI013 0.000000e+00 0.000000e+00      0      0      0 6.391614e-05
## CSI023 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
## CSI034 0.000000e+00 0.000000e+00      0      0      0 0.000000e+00
## CSI045 0.000000e+00 1.959056e-04      0      0      0 0.000000e+00
## CSI056 0.000000e+00 3.722643e-04      0      0      0 0.000000e+00
## CSI066 0.000000e+00 1.916847e-04      0      0      0 0.000000e+00
##      0tu01667      0tu01668      0tu01669 0tu01670 0tu01671      0tu01672
## CSI002      0 1.907071e-04 0.000000e+00      0      0 0.000000e+00
## CSI013      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI023      0 0.000000e+00 0.000000e+00      0      0 2.041025e-05
## CSI034      0 3.789817e-05 0.000000e+00      0      0 0.000000e+00
## CSI045      0 3.265093e-05 0.000000e+00      0      0 0.000000e+00
## CSI056      0 1.959286e-05 1.959286e-05      0      0 0.000000e+00
## CSI066      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
##      0tu01673 0tu01674 0tu01675 0tu01676 0tu01677 0tu01678 0tu01679
## CSI002 1.362194e-05      0      0      0      0      0      0
## CSI013 2.237065e-04      0      0      0      0      0      0

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##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	1.894908e-04	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu01680	0tu01681	0tu01682	0tu01683	0tu01684	
##	CSI002	2.588168e-04	0.000000e+00	2.451949e-04	1.362194e-05	0	
##	CSI013	2.876226e-04	0.000000e+00	9.587421e-05	0.000000e+00	0	
##	CSI023	8.164098e-05	0.000000e+00	2.041025e-05	0.000000e+00	0	
##	CSI034	9.474542e-05	0.000000e+00	1.136945e-04	0.000000e+00	0	
##	CSI045	0.000000e+00	6.530186e-05	3.265093e-05	0.000000e+00	0	
##	CSI056	0.000000e+00	2.351143e-04	7.837144e-05	0.000000e+00	0	
##	CSI066	0.000000e+00	1.150108e-04	7.667389e-05	0.000000e+00	0	
##		0tu01685	0tu01686	0tu01687	0tu01688	0tu01689	
##	CSI002	1.362194e-05	4.086581e-05	0	6.810968e-05	0.000000e+00	
##	CSI013	0.000000e+00	2.237065e-04	0	1.278323e-04	0.000000e+00	
##	CSI023	1.020512e-04	1.020512e-04	0	2.041025e-05	0.000000e+00	
##	CSI034	5.684725e-05	1.894908e-04	0	0.000000e+00	0.000000e+00	
##	CSI045	0.000000e+00	3.265093e-05	0	0.000000e+00	0.000000e+00	
##	CSI056	0.000000e+00	0.000000e+00	0	0.000000e+00	1.665393e-03	
##	CSI066	7.667389e-05	0.000000e+00	0	0.000000e+00	0.000000e+00	
##		0tu01690	0tu01691	0tu01692	0tu01693	0tu01694	0tu01695
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI045	6.530186e-05	3.265093e-04	0	0	0	0.000000e+00
##	CSI056	7.837144e-05	1.175572e-04	0	0	0	1.959286e-05
##	CSI066	0.000000e+00	1.341793e-04	0	0	0	2.300217e-04
##		0tu01696	0tu01697	0tu01698	0tu01699	0tu01700	0tu01701
##	CSI002	1.089755e-04	6.810968e-05	0	0.000000e+00	0	0
##	CSI013	1.278323e-04	1.597904e-04	0	3.195807e-05	0	0
##	CSI023	0.000000e+00	4.082049e-05	0	0.000000e+00	0	0
##	CSI034	6.063707e-04	1.894908e-05	0	1.894908e-05	0	0
##	CSI045	0.000000e+00	2.285565e-04	0	0.000000e+00	0	0
##	CSI056	0.000000e+00	1.175572e-04	0	0.000000e+00	0	0
##	CSI066	1.916847e-05	0.000000e+00	0	0.000000e+00	0	0
##		0tu01702	0tu01703	0tu01704	0tu01705	0tu01706	
##	CSI002	0.000000e+00	0	1.498413e-04	0.000000e+00	0	
##	CSI013	0.000000e+00	0	3.195807e-05	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0	
##	CSI034	0.000000e+00	0	2.273890e-04	0.000000e+00	0	
##	CSI045	1.306037e-04	0	3.265093e-05	0.000000e+00	0	
##	CSI056	5.877858e-05	0	0.000000e+00	0.000000e+00	0	
##	CSI066	1.916847e-05	0	0.000000e+00	0.000000e+00	0	
##		0tu01707	0tu01708	0tu01709	0tu01710	0tu01711	0tu01712
##	CSI002	4.086581e-05	0	0	0	0	0
##	CSI013	7.350356e-04	0	0	0	0	0
##	CSI023	4.082049e-05	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	6.530186e-05	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu01714	0tu01715	0tu01716	0tu01717	0tu01718	0tu01719

##	CSI002	0	8.173162e-05	0.0000000000	0	0	0.000000e+00
##	CSI013	0	3.834969e-04	0.0001278323	0	0	0.000000e+00
##	CSI023	0	0.000000e+00	0.0000000000	0	0	0.000000e+00
##	CSI034	0	1.326436e-04	0.0000000000	0	0	0.000000e+00
##	CSI045	0	0.000000e+00	0.0000000000	0	0	3.265093e-05
##	CSI056	0	1.959286e-05	0.0000000000	0	0	3.918572e-05
##	CSI066	0	0.000000e+00	0.0000000000	0	0	5.750542e-05
##		0tu01720	0tu01721	0tu01722	0tu01723	0tu01724	0tu01725
##	CSI002	0	0	0	0.000000e+00	0	0.0000000000
##	CSI013	0	0	0	0.000000e+00	0	0.0001278323
##	CSI023	0	0	0	0.000000e+00	0	0.0000000000
##	CSI034	0	0	0	0.000000e+00	0	0.0000000000
##	CSI045	0	0	0	9.795279e-05	0	0.0000000000
##	CSI056	0	0	0	5.877858e-05	0	0.0000000000
##	CSI066	0	0	0	2.300217e-04	0	0.0000000000
##		0tu01726	0tu01727	0tu01728	0tu01729	0tu01730	0tu01731
##	CSI002	0	2.724387e-05	0	0	0.000000e+00	0
##	CSI013	0	9.587421e-05	0	0	3.195807e-05	0
##	CSI023	0	6.123074e-05	0	0	0.000000e+00	0
##	CSI034	0	2.652872e-04	0	0	1.136945e-04	0
##	CSI045	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI056	0	1.959286e-05	0	0	0.000000e+00	0
##	CSI066	0	0.000000e+00	0	0	0.000000e+00	0
##		0tu01732	0tu01733	0tu01734	0tu01735	0tu01736	0tu01737
##	CSI002	0	0	0	0	1.362194e-05	1.089755e-04
##	CSI013	0	0	0	0	3.195807e-05	1.597904e-04
##	CSI023	0	0	0	0	0.000000e+00	2.041025e-05
##	CSI034	0	0	0	0	3.789817e-05	2.652872e-04
##	CSI045	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI056	0	0	0	0	7.837144e-05	5.094144e-04
##	CSI066	0	0	0	0	3.833694e-05	5.750542e-05
##		0tu01738	0tu01739	0tu01740	0tu01741	0tu01742	
##	CSI002	0.000000e+00	1.362194e-05	0.000000e+00	0	0.000000e+00	
##	CSI013	0.000000e+00	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI023	4.082049e-05	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI034	0.000000e+00	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI045	0.000000e+00	6.530186e-05	0.000000e+00	0	0.000000e+00	
##	CSI056	8.620859e-04	9.796430e-05	3.722643e-04	0	0.000000e+00	
##	CSI066	0.000000e+00	2.108532e-04	0.000000e+00	0	3.833694e-05	
##		0tu01743	0tu01744	0tu01745	0tu01746	0tu01747	0tu01748
##	CSI002	0	3.814142e-04	0	0.000000e+00	0.000000e+00	0
##	CSI013	0	1.597904e-04	0	0.000000e+00	3.195807e-05	0
##	CSI023	0	4.082049e-05	0	0.000000e+00	0.000000e+00	0
##	CSI034	0	5.874216e-04	0	3.789817e-05	3.789817e-05	0
##	CSI045	0	6.530186e-05	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	4.702286e-04	0
##	CSI066	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##		0tu01749	0tu01750	0tu01751	0tu01752	0tu01753	
##	CSI002	0.000000e+00	0	0.000000e+00	1.362194e-05	1.362194e-05	
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI034	0.000000e+00	0	4.926762e-04	0.000000e+00	0.000000e+00	
##	CSI045	2.938584e-04	0	0.000000e+00	3.265093e-05	0.000000e+00	
##	CSI056	1.959286e-05	0	0.000000e+00	7.837144e-05	0.000000e+00	

##	CSI066	7.667389e-05	0	3.833694e-05	1.533478e-04	0.000000e+00	
##		0tu01754	0tu01755	0tu01756	0tu01757	0tu01758	0tu01759 0tu01760
##	CSI002	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	3.265093e-05	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	2.491901e-04	0	0	0
##		0tu01761	0tu01762	0tu01763	0tu01764	0tu01765	0tu01766 0tu01767
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	6.530186e-05	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu01768	0tu01769	0tu01770	0tu01771	0tu01772	0tu01773
##	CSI002	1.498413e-04	0	0	0.000000e+00	0	0.000000e+00
##	CSI013	6.391614e-05	0	0	0.000000e+00	0	3.195807e-05
##	CSI023	4.082049e-05	0	0	0.000000e+00	0	4.082049e-05
##	CSI034	5.305743e-04	0	0	0.000000e+00	0	3.789817e-05
##	CSI045	0.000000e+00	0	0	6.530186e-05	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	4.506358e-04	0	5.877858e-05
##	CSI066	0.000000e+00	0	0	1.533478e-04	0	1.916847e-05
##		0tu01774	0tu01775	0tu01776	0tu01777	0tu01778	0tu01779
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	6.123074e-05	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu01780	0tu01781	0tu01782	0tu01783	0tu01784	0tu01785 0tu01786
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	3.833694e-05	0	0	0	0	0
##		0tu01787	0tu01788	0tu01789	0tu01790	0tu01791	0tu01792
##	CSI002	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI013	9.587421e-05	0.000000e+00	0.000000e+00	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI045	0.000000e+00	1.632546e-04	0.000000e+00	0	0	0
##	CSI056	1.959286e-05	5.877858e-05	1.959286e-05	0	0	0
##	CSI066	5.750542e-05	5.750542e-05	0.000000e+00	0	0	0
##		0tu01793	0tu01794	0tu01795	0tu01796	0tu01797	0tu01798 0tu01799
##	CSI002	0	0	0	8.173162e-05	0	0
##	CSI013	0	0	0	4.474130e-04	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	2.842363e-04	0	0

##	CSI045	0	0	0 0.000000e+00	0	0	0
##	CSI056	0	0	0 0.000000e+00	0	0	0
##	CSI066	0	0	0 0.000000e+00	0	0	0
##	0tu01800	0tu01801	0tu01802	0tu01803	0tu01804		
##	CSI002	0 5.448775e-04	0.000000e+00	0.000000e+00	0		
##	CSI013	0 5.432872e-04	0.000000e+00	0.000000e+00	0		
##	CSI023	0 0.000000e+00	0.000000e+00	0.000000e+00	0		
##	CSI034	0 4.358289e-04	0.000000e+00	0.000000e+00	0		
##	CSI045	0 0.000000e+00	3.265093e-05	0.000000e+00	0		
##	CSI056	0 1.959286e-05	1.978879e-03	0.000000e+00	0		
##	CSI066	0 0.000000e+00	0.000000e+00	0.000000e+00	0		
##	0tu01805	0tu01806	0tu01807	0tu01808	0tu01809		
##	CSI002	0.0000000000	0.000000e+00	5.448775e-05	0 1.362194e-05		
##	CSI013	0.0000000000	1.278323e-04	3.195807e-05	0 0.000000e+00		
##	CSI023	0.0004286152	0.000000e+00	0.000000e+00	0 4.082049e-05		
##	CSI034	0.0000000000	1.515927e-04	1.136945e-04	0 3.789817e-05		
##	CSI045	0.0000000000	1.959056e-04	3.265093e-05	0 0.000000e+00		
##	CSI056	0.0000000000	1.175572e-04	3.918572e-05	0 0.000000e+00		
##	CSI066	0.0000000000	1.916847e-05	1.916847e-05	0 0.000000e+00		
##	0tu01810	0tu01811	0tu01812	0tu01813	0tu01814	0tu01815	
##	CSI002	0	0	0 4.767678e-04	0.000000e+00	0	
##	CSI013	0	0	0 2.556646e-04	0.000000e+00	0	
##	CSI023	0	0	0 6.123074e-05	0.000000e+00	0	
##	CSI034	0	0	0 5.874216e-04	1.894908e-05	0	
##	CSI045	0	0	0 0.000000e+00	0.000000e+00	0	
##	CSI056	0	0	0 0.000000e+00	7.837144e-05	0	
##	CSI066	0	0	0 1.916847e-05	7.667389e-05	0	
##	0tu01816	0tu01817	0tu01818	0tu01819	0tu01820	0tu01821	
##	CSI002	0	0 0.000000e+00	0.000000e+00	0	0	
##	CSI013	0	0 0.000000e+00	2.876226e-04	0	0	
##	CSI023	0	0 0.000000e+00	0.000000e+00	0	0	
##	CSI034	0	0 0.000000e+00	7.011161e-04	0	0	
##	CSI045	0	0 0.000000e+00	0.000000e+00	0	0	
##	CSI056	0	0 3.918572e-05	0.000000e+00	0	0	
##	CSI066	0	0 1.916847e-05	0.000000e+00	0	0	
##	0tu01822	0tu01823	0tu01824	0tu01825	0tu01826	0tu01827	
##	CSI002	0.000000e+00	0	0	0 1.362194e-05	0	
##	CSI013	0.000000e+00	0	0	0 3.195807e-05	0	
##	CSI023	0.000000e+00	0	0	0 0.000000e+00	0	
##	CSI034	5.684725e-05	0	0	0 1.136945e-04	0	
##	CSI045	3.265093e-05	0	0	0 1.632546e-04	0	
##	CSI056	0.000000e+00	0	0	0 1.959286e-05	0	
##	CSI066	0.000000e+00	0	0	0 0.000000e+00	0	
##	0tu01828	0tu01829	0tu01830	0tu01831	0tu01832	0tu01833	
##	CSI002	1.362194e-04	0	0	0 1.362194e-05	0	
##	CSI013	3.195807e-04	0	0	0 9.587421e-05	0	
##	CSI023	0.000000e+00	0	0	0 0.000000e+00	0	
##	CSI034	8.148106e-04	0	0	0 2.652872e-04	0	
##	CSI045	6.530186e-05	0	0	0 6.530186e-05	0	
##	CSI056	0.000000e+00	0	0	0 0.000000e+00	0	
##	CSI066	0.000000e+00	0	0	0 2.875271e-04	0	
##	0tu01834	0tu01835	0tu01836	0tu01837	0tu01838	0tu01839	
##	CSI002	0 8.173162e-05	0	0 0.0000000000	0	0	
##	CSI013	0 3.195807e-05	0	0 0.0000000000	0	0	



##	CSI023	0	0.000000e+00	0	0	0.0000000000	0
##	CSI034	0	1.136945e-04	0	0	0.0000000000	0
##	CSI045	0	0.000000e+00	0	0	0.0000000000	0
##	CSI056	0	0.000000e+00	0	0	0.0000000000	0
##	CSI066	0	3.833694e-05	0	0	0.0002875271	0
##		0tu01840	0tu01841	0tu01842	0tu01843	0tu01844	0tu01845
##	CSI002	0.000000e+00	0	0.000000000	0	0.000000e+00	0
##	CSI013	0.000000e+00	0	0.000000000	0	9.587421e-05	0
##	CSI023	0.000000e+00	0	0.000000000	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	0.000000000	0	0.000000e+00	0
##	CSI045	0.000000e+00	0	0.00104483	0	6.530186e-05	0
##	CSI056	0.000000e+00	0	0.000000000	0	3.918572e-05	0
##	CSI066	1.916847e-05	0	0.000000000	0	0.000000e+00	0
##		0tu01846	0tu01847	0tu01848	0tu01849	0tu01850	0tu01851
##	CSI002	0	0.0000000000	0.000000e+00	0	0	0
##	CSI013	0	0.0000000000	0.000000e+00	0	0	0
##	CSI023	0	0.0000000000	5.306664e-04	0	0	0
##	CSI034	0	0.0000000000	1.894908e-05	0	0	0
##	CSI045	0	0.0000000000	9.795279e-05	0	0	0
##	CSI056	0	0.0000000000	0.000000e+00	0	0	0
##	CSI066	0	0.0000000000	1.916847e-05	0	0	0
##		0tu01852	0tu01853	0tu01854	0tu01855	0tu01856	
##	CSI002	0.000000e+00	0	9.535356e-05	0.000000e+00	0.000000e+00	
##	CSI013	0.000000e+00	0	1.278323e-04	0.000000e+00	0.000000e+00	
##	CSI023	6.939484e-04	0	2.041025e-05	0.000000e+00	0.000000e+00	
##	CSI034	1.894908e-05	0	1.326436e-04	0.000000e+00	5.684725e-05	
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	6.530186e-05	
##	CSI056	0.000000e+00	0	0.000000e+00	1.959286e-05	0.000000e+00	
##	CSI066	0.000000e+00	0	0.000000e+00	1.916847e-05	5.750542e-05	
##		0tu01857	0tu01858	0tu01859	0tu01860	0tu01861	0tu01862
##	CSI002	0	0	0	2.724387e-04	0.0000000000	0
##	CSI013	0	0	0	3.515388e-04	0.0000000000	0
##	CSI023	0	0	0	2.041025e-05	0.0000000000	0
##	CSI034	0	0	0	1.326436e-04	0.0005116253	0
##	CSI045	0	0	0	0.000000e+00	0.0000000000	0
##	CSI056	0	0	0	0.000000e+00	0.0000000000	0
##	CSI066	0	0	0	0.000000e+00	0.0001533478	0
##		0tu01863	0tu01864	0tu01865	0tu01866	0tu01867	
##	CSI002	0.000000e+00	0.000000e+00	0	0.0000000000	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0.0000000000	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0.0000000000	0	
##	CSI034	1.894908e-05	5.684725e-05	0	0.0000000000	0	
##	CSI045	6.530186e-05	0.000000e+00	0	0.0001306037	0	
##	CSI056	1.959286e-05	0.000000e+00	0	0.0002938929	0	
##	CSI066	0.000000e+00	3.833694e-05	0	0.0000000000	0	
##		0tu01868	0tu01869	0tu01870	0tu01871	0tu01872	
##	CSI002	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI013	0.000000e+00	0.000000e+00	3.195807e-05	0.000000e+00	0	
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI034	0.000000e+00	2.084399e-04	0.000000e+00	7.579634e-05	0	
##	CSI045	0.000000e+00	3.265093e-05	0.000000e+00	0.000000e+00	0	
##	CSI056	0.000000e+00	2.155215e-04	0.000000e+00	0.000000e+00	0	
##	CSI066	3.833694e-05	0.000000e+00	0.000000e+00	0.000000e+00	0	
##		0tu01873	0tu01874	0tu01875	0tu01876	0tu01877	0tu01878

##	CSI002	0	0.000000000	0	0	5.448775e-05	0
##	CSI013	0	0.000000000	0	0	9.907002e-04	0
##	CSI023	0	0.000000000	0	0	6.123074e-05	0
##	CSI034	0	0.000000000	0	0	9.474542e-05	0
##	CSI045	0	0.000000000	0	0	0.000000e+00	0
##	CSI056	0	0.000000000	0	0	0.000000e+00	0
##	CSI066	0	0.000000000	0	0	0.000000e+00	0
##		0tu01879	0tu01880	0tu01881	0tu01882	0tu01883	
##	CSI002	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI013	0	0.000000e+00	3.195807e-05	0.000000e+00	0.000000e+00	
##	CSI023	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI034	0	1.894908e-05	0.000000e+00	0.000000e+00	3.789817e-05	
##	CSI045	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI056	0	3.918572e-05	0.000000e+00	1.959286e-05	0.000000e+00	
##	CSI066	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##		0tu01884	0tu01885	0tu01886	0tu01887	0tu01888	0tu01889
##	CSI002	0	0.0000000000	0	0	0	3.677923e-04
##	CSI013	0	0.0007030776	0	0	0	1.597904e-04
##	CSI023	0	0.0000000000	0	0	0	4.082049e-05
##	CSI034	0	0.0006821670	0	0	0	1.515927e-04
##	CSI045	0	0.0000000000	0	0	0	0.000000e+00
##	CSI056	0	0.0000000000	0	0	0	0.000000e+00
##	CSI066	0	0.0001725162	0	0	0	0.000000e+00
##		0tu01890	0tu01891	0tu01892	0tu01893	0tu01894	0tu01895
##	CSI002	1.907071e-04	0	0	0	2.179510e-04	0
##	CSI013	3.195807e-04	0	0	0	1.278323e-04	0
##	CSI023	0.000000e+00	0	0	0	6.123074e-05	0
##	CSI034	3.031853e-04	0	0	0	8.527088e-04	0
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI056	0.000000e+00	0	0	0	3.918572e-05	0
##	CSI066	3.833694e-05	0	0	0	0.000000e+00	0
##		0tu01896	0tu01897	0tu01898	0tu01899	0tu01900	0tu01901
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	2.547072e-04	0	0	0	0
##	CSI066	0	1.725162e-04	0	0	0	0
##		0tu01902	0tu01903	0tu01904	0tu01905	0tu01906	0tu01907
##	CSI002	2.724387e-05	9.535356e-05	0	0	0	0
##	CSI013	6.391614e-05	1.597904e-04	0	0	0	0
##	CSI023	0.000000e+00	6.123074e-05	0	0	0	0
##	CSI034	1.894908e-05	1.515927e-04	0	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI056	3.918572e-05	1.959286e-05	0	0	0	0
##	CSI066	3.833694e-05	2.875271e-04	0	0	0	0
##		0tu01908	0tu01909	0tu01910	0tu01911	0tu01912	0tu01913
##	CSI002	0	0	4.086581e-05	0.000000e+00	0	1.498413e-04
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	9.587421e-05
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI034	0	0	2.463381e-04	9.474542e-05	0	1.326436e-04
##	CSI045	0	0	0.000000e+00	3.265093e-05	0	0.000000e+00
##	CSI056	0	0	0.000000e+00	3.918572e-05	0	3.918572e-05

##	CSI066	0	0	0.000000e+00	0.000000e+00	0	1.916847e-05
##		0tu01914	0tu01915	0tu01916	0tu01917	0tu01918	0tu01919 0tu01920
##	CSI002	0	0	2.724387e-05	0	0	0 0
##	CSI013	0	0	0.000000e+00	0	0	0 0
##	CSI023	0	0	0.000000e+00	0	0	0 0
##	CSI034	0	0	9.474542e-05	0	0	0 0
##	CSI045	0	0	6.530186e-05	0	0	0 0
##	CSI056	0	0	3.134858e-04	0	0	0 0
##	CSI066	0	0	9.584236e-05	0	0	0 0
##		0tu01921	0tu01922	0tu01923	0tu01924	0tu01925	0tu01926 0tu01927
##	CSI002	0	0.000000e+00	0	0	0	0 0
##	CSI013	0	0.000000e+00	0	0	0	0 0
##	CSI023	0	0.000000e+00	0	0	0	0 0
##	CSI034	0	0.000000e+00	0	0	0	0 0
##	CSI045	0	3.265093e-04	0	0	0	0 0
##	CSI056	0	1.371500e-04	0	0	0	0 0
##	CSI066	0	0.000000e+00	0	0	0	0 0
##		0tu01928	0tu01929	0tu01930	0tu01931	0tu01932	
##	CSI002	0.000000e+00	0	0.000000e+00	1.362194e-05	5.448775e-05	
##	CSI013	0.000000e+00	0	0.000000e+00	9.587421e-05	6.391614e-05	
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI034	0.000000e+00	0	0.000000e+00	5.684725e-05	6.632179e-04	
##	CSI045	0.000000e+00	0	6.530186e-05	9.795279e-05	0.000000e+00	
##	CSI056	1.567429e-04	0	1.959286e-05	7.837144e-05	0.000000e+00	
##	CSI066	3.833694e-05	0	3.833694e-05	5.750542e-05	0.000000e+00	
##		0tu01933	0tu01934	0tu01935	0tu01936	0tu01937	
##	CSI002	0.000000e+00	2.043291e-04	0.000000e+00	0.0000000000	0	
##	CSI013	0.000000e+00	2.876226e-04	0.000000e+00	0.0000000000	0	
##	CSI023	0.000000e+00	2.041025e-05	0.000000e+00	0.0000000000	0	
##	CSI034	0.000000e+00	8.716579e-04	1.136945e-04	0.0000000000	0	
##	CSI045	0.000000e+00	0.000000e+00	0.000000e+00	0.0000000000	0	
##	CSI056	3.918572e-05	3.918572e-05	1.959286e-05	0.0000000000	0	
##	CSI066	0.000000e+00	0.000000e+00	0.000000e+00	0.0005942226	0	
##		0tu01938	0tu01939	0tu01940	0tu01941	0tu01942	0tu01943 0tu01944
##	CSI002	2.724387e-05	0	0	0	0	0 0
##	CSI013	3.195807e-05	0	0	0	0	0 0
##	CSI023	0.000000e+00	0	0	0	0	0 0
##	CSI034	0.000000e+00	0	0	0	0	0 0
##	CSI045	0.000000e+00	0	0	0	0	0 0
##	CSI056	0.000000e+00	0	0	0	0	0 0
##	CSI066	0.000000e+00	0	0	0	0	0 0
##		0tu01945	0tu01946	0tu01947	0tu01948	0tu01949	0tu01950
##	CSI002	2.179510e-04	0	0	0	1.362194e-05	0
##	CSI013	0.000000e+00	0	0	0	6.391614e-05	0
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI034	1.894908e-05	0	0	0	0.000000e+00	0
##	CSI045	0.000000e+00	0	0	0	3.265093e-05	0
##	CSI056	0.000000e+00	0	0	0	1.391093e-03	0
##	CSI066	7.667389e-05	0	0	0	0.000000e+00	0
##		0tu01951	0tu01952	0tu01953	0tu01954	0tu01955	0tu01956
##	CSI002	0	0	1.362194e-05	0.000000e+00	0	2.724387e-05
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI034	0	0	1.894908e-05	0.000000e+00	0	4.358289e-04

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## CSI045      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI056      0      0 3.918572e-04 8.620859e-04      0 0.000000e+00
## CSI066      0      0 3.833694e-05 0.000000e+00      0 1.916847e-05
##      0tu01957      0tu01958      0tu01959 0tu01960      0tu01961
## CSI002 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI013 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI034 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI045 0.000000e+00 1.306037e-04 0.000000e+00      0 0.000000e+00
## CSI056 0.000000e+00 3.918572e-05 0.000000e+00      0 0.000000e+00
## CSI066 0.000000e+00 0.000000e+00 5.750542e-05      0 0.000000e+00
##      0tu01962      0tu01963      0tu01964      0tu01965      0tu01966
## CSI002 4.086581e-05 0.000000e+00 1.089755e-04 4.086581e-05 5.448775e-05
## CSI013 1.917484e-04 0.000000e+00 0.000000e+00 1.661820e-03 2.237065e-04
## CSI023 2.041025e-05 2.041025e-05 0.000000e+00 0.000000e+00 4.082049e-05
## CSI034 3.031853e-04 0.000000e+00 1.136945e-04 2.842363e-04 1.894908e-04
## CSI045 0.000000e+00 0.000000e+00 9.795279e-05 0.000000e+00 0.000000e+00
## CSI056 1.175572e-04 7.837144e-05 0.000000e+00 1.959286e-05 1.959286e-05
## CSI066 1.150108e-04 0.000000e+00 1.916847e-04 7.667389e-05 0.000000e+00
##      0tu01967 0tu01968 0tu01969 0tu01970      0tu01971      0tu01972
## CSI002      0      0      0      0 0.000000e+00 0.000000e+00
## CSI013      0      0      0      0 6.391614e-05 0.000000e+00
## CSI023      0      0      0      0 0.000000e+00 0.000000e+00
## CSI034      0      0      0      0 0.000000e+00 5.684725e-05
## CSI045      0      0      0      0 0.000000e+00 0.000000e+00
## CSI056      0      0      0      0 0.000000e+00 5.877858e-05
## CSI066      0      0      0      0 0.000000e+00 0.000000e+00
##      0tu01973      0tu01974 0tu01975 0tu01976      0tu01977
## CSI002 0.000000e+00 4.086581e-05      0      0 0.000000e+00
## CSI013 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI023 0.000000e+00 2.041025e-05      0      0 0.000000e+00
## CSI034 1.894908e-05 9.474542e-05      0      0 0.000000e+00
## CSI045 3.265093e-05 0.000000e+00      0      0 0.000000e+00
## CSI056 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI066 0.000000e+00 3.833694e-05      0      0 0.000000e+00
##      0tu01978 0tu01979      0tu01980 0tu01981      0tu01982
## CSI002 2.315729e-04      0 6.810968e-05      0 4.086581e-05
## CSI013 0.000000e+00      0 3.195807e-05      0 1.246365e-03
## CSI023 8.164098e-05      0 2.041025e-05      0 4.082049e-05
## CSI034 0.000000e+00      0 1.136945e-04      0 1.894908e-04
## CSI045 0.000000e+00      0 3.265093e-05      0 0.000000e+00
## CSI056 0.000000e+00      0 2.155215e-04      0 0.000000e+00
## CSI066 0.000000e+00      0 0.000000e+00      0 0.000000e+00
##      0tu01983 0tu01984 0tu01985      0tu01986      0tu01987
## CSI002 0.000000e+00      0      0 1.634632e-04 5.448775e-05
## CSI013 0.000000e+00      0      0 2.237065e-04 6.391614e-05
## CSI023 0.000000e+00      0      0 6.123074e-05 4.082049e-05
## CSI034 1.894908e-05      0      0 1.326436e-04 2.084399e-04
## CSI045 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00      0      0 1.959286e-05 2.155215e-04
## CSI066 1.936016e-03      0      0 0.000000e+00 0.000000e+00
##      0tu01988 0tu01989 0tu01990      0tu01991 0tu01992 0tu01993
## CSI002 1.362194e-05      0      0 1.634632e-04      0      0
## CSI013 9.587421e-05      0      0 1.342239e-03      0      0

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##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI034	5.684725e-05	0	0	1.705418e-04	0	0
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI056	7.837144e-05	0	0	0.000000e+00	0	0
##	CSI066	1.150108e-04	0	0	0.000000e+00	0	0
##		0tu01994	0tu01995	0tu01996	0tu01997	0tu01998	0tu01999
##	CSI002	1.362194e-05	0	0	0.0000000000	0	0
##	CSI013	0.000000e+00	0	0	0.0000000000	0	0
##	CSI023	0.000000e+00	0	0	0.0000000000	0	0
##	CSI034	1.326436e-04	0	0	0.0000000000	0	0
##	CSI045	3.265093e-05	0	0	0.0000000000	0	0
##	CSI056	0.000000e+00	0	0	0.0000000000	0	0
##	CSI066	0.000000e+00	0	0	0.0000000000	0	0
##		0tu02000	0tu02001	0tu02002	0tu02003	0tu02004	0tu02005
##	CSI002	0	0	0	0	4.086581e-05	0.000000e+00
##	CSI013	0	0	0	0	1.597904e-04	0.000000e+00
##	CSI023	0	0	0	0	2.041025e-05	2.041025e-05
##	CSI034	0	0	0	0	4.737271e-04	0.000000e+00
##	CSI045	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI056	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI066	0	0	0	0	0.000000e+00	0.000000e+00
##		0tu02006	0tu02007	0tu02008	0tu02009	0tu02010	0tu02011
##	CSI002	0.000000e+00	6.810968e-05	0	5.448775e-05	0	0
##	CSI013	3.195807e-05	6.391614e-05	0	1.278323e-04	0	0
##	CSI023	0.000000e+00	6.123074e-05	0	2.041025e-05	0	0
##	CSI034	0.000000e+00	3.789817e-04	0	2.842363e-04	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	1.959286e-05	3.918572e-05	0	1.959286e-05	0	0
##	CSI066	9.584236e-05	0.000000e+00	0	0.000000e+00	0	0
##		0tu02012	0tu02013	0tu02014	0tu02015	0tu02016	0tu02017
##	CSI002	0	0.000000e+00	0	1.770852e-04	0	0
##	CSI013	0	0.000000e+00	0	2.876226e-04	0	0
##	CSI023	0	0.000000e+00	0	4.082049e-05	0	0
##	CSI034	0	0.000000e+00	0	2.463381e-04	0	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	0	1.959286e-05	0	3.918572e-05	0	0
##	CSI066	0	3.066955e-04	0	0.000000e+00	0	0
##		0tu02018	0tu02019	0tu02020	0tu02021	0tu02022	0tu02023
##	CSI002	2.724387e-05	0	0.000000e+00	0	0.000000e+00	0
##	CSI013	3.195807e-05	0	0.000000e+00	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	2.041025e-05	0
##	CSI034	1.894908e-05	0	0.000000e+00	0	0.000000e+00	0
##	CSI045	2.612074e-04	0	3.265093e-04	0	0.000000e+00	0
##	CSI056	1.959286e-05	0	1.959286e-05	0	0.000000e+00	0
##	CSI066	2.875271e-04	0	0.000000e+00	0	0.000000e+00	0
##		0tu02024	0tu02025	0tu02026	0tu02027	0tu02028	0tu02029
##	CSI002	0	0.000000e+00	1.362194e-05	0	0	0
##	CSI013	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI034	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI045	0	1.306037e-04	0.000000e+00	0	0	0
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0
##		0tu02030	0tu02031	0tu02032	0tu02033	0tu02034	0tu02035

##	CSI002	0	4.767678e-04	0.0001225974	0	0	0
##	CSI013	0	2.876226e-04	0.0000000000	0	0	0
##	CSI023	0	2.041025e-05	0.0000000000	0	0	0
##	CSI034	0	3.600326e-04	0.0000000000	0	0	0
##	CSI045	0	0.000000e+00	0.0000000000	0	0	0
##	CSI056	0	0.000000e+00	0.0000000000	0	0	0
##	CSI066	0	0.000000e+00	0.0000000000	0	0	0
##		0tu02036	0tu02037	0tu02038	0tu02039	0tu02040	0tu02041
##	CSI002	0	0	2.724387e-05	0	0.000000e+00	0
##	CSI013	0	0	3.195807e-05	0	0.000000e+00	0
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI034	0	0	4.737271e-04	0	0.000000e+00	0
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0
##		0tu02042	0tu02043	0tu02044	0tu02045	0tu02046	0tu02047
##	CSI002	0.000000e+00	0	2.724387e-05	0	9.535356e-05	0
##	CSI013	0.000000e+00	0	3.195807e-05	0	1.278323e-04	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	6.123074e-05	0
##	CSI034	0.000000e+00	0	3.789817e-05	0	4.358289e-04	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI056	6.269715e-04	0	0.000000e+00	0	0.000000e+00	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##		0tu02048	0tu02049	0tu02050	0tu02051	0tu02052	0tu02053
##	CSI002	4.086581e-05	0	0	0	0	0
##	CSI013	9.587421e-05	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	1.326436e-04	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu02054	0tu02055	0tu02056	0tu02057	0tu02058	0tu02059
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	0	0	1.894908e-05	0
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI056	0.000000e+00	0	0	0	5.877858e-05	0
##	CSI066	0.000000e+00	0	0	0	1.916847e-05	0
##		0tu02060	0tu02061	0tu02062	0tu02063	0tu02064	
##	CSI002	0	0	5.448775e-05	6.810968e-05	0.000000e+00	
##	CSI013	0	0	2.876226e-04	9.587421e-05	3.195807e-05	
##	CSI023	0	0	8.164098e-05	0.000000e+00	0.000000e+00	
##	CSI034	0	0	1.326436e-04	3.789817e-04	5.684725e-05	
##	CSI045	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI056	0	0	1.959286e-05	3.918572e-05	0.000000e+00	
##	CSI066	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##		0tu02065	0tu02066	0tu02067	0tu02068	0tu02069	0tu02070
##	CSI002	1.362194e-05	0	0	0	1.362194e-04	0
##	CSI013	0.000000e+00	0	0	0	8.628679e-04	0
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	0	0	1.515927e-04	0
##	CSI045	0.000000e+00	0	0	0	1.632546e-04	0
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0

##	CSI066	0.000000e+00	0	0	0	1.916847e-05	0
##		0tu02071	0tu02072	0tu02073	0tu02074	0tu02075	0tu02076
##	CSI002	0	0	0	0.0000000000	0	0.000000e+00
##	CSI013	0	0	0	0.0000000000	0	0.000000e+00
##	CSI023	0	0	0	0.0000000000	0	0.000000e+00
##	CSI034	0	0	0	0.0000000000	0	0.000000e+00
##	CSI045	0	0	0	0.0000000000	0	0.000000e+00
##	CSI056	0	0	0	0.0000000000	0	1.959286e-05
##	CSI066	0	0	0	0.0005750542	0	0.000000e+00
##		0tu02077	0tu02078	0tu02079	0tu02080	0tu02081	
##	CSI002	0.000000e+00	6.810968e-05	1.362194e-05	0.000000e+00	0	
##	CSI013	3.195807e-05	6.072033e-04	0.000000e+00	0.000000e+00	0	
##	CSI023	0.000000e+00	4.082049e-05	6.939484e-04	0.000000e+00	0	
##	CSI034	7.579634e-05	4.547780e-04	3.789817e-05	3.789817e-05	0	
##	CSI045	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI056	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI066	0.000000e+00	0.000000e+00	0.000000e+00	1.341793e-04	0	
##		0tu02082	0tu02083	0tu02084	0tu02085	0tu02086	0tu02087
##	CSI002	0	0.0000000000	0.000000e+00	2.588168e-04	0	0
##	CSI013	0	0.0000000000	0.000000e+00	0.000000e+00	0	0
##	CSI023	0	0.0000000000	0.000000e+00	2.041025e-05	0	0
##	CSI034	0	0.0000000000	0.000000e+00	0.000000e+00	0	0
##	CSI045	0	0.0001306037	3.265093e-04	6.530186e-05	0	0
##	CSI056	0	0.0000979643	3.918572e-05	0.000000e+00	0	0
##	CSI066	0	0.0007859073	7.667389e-05	0.000000e+00	0	0
##		0tu02088	0tu02089	0tu02090	0tu02091	0tu02092	0tu02093
##	CSI002	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI013	0	3.195807e-05	9.587421e-05	0	0	0
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI034	0	1.894908e-05	7.579634e-05	0	0	0
##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI056	0	0.000000e+00	3.918572e-05	0	0	0
##	CSI066	0	1.916847e-05	5.750542e-05	0	0	0
##		0tu02094	0tu02095	0tu02096	0tu02097	0tu02098	0tu02099
##	CSI002	0	0.0000000000	0	0	1.362194e-05	0
##	CSI013	0	0.0000000000	0	0	3.195807e-05	0
##	CSI023	0	0.0000000000	0	0	8.164098e-05	0
##	CSI034	0	0.0004926762	0	0	3.789817e-05	0
##	CSI045	0	0.0000000000	0	0	0.000000e+00	0
##	CSI056	0	0.0000000000	0	0	0.000000e+00	0
##	CSI066	0	0.0000000000	0	0	0.000000e+00	0
##		0tu02100	0tu02101	0tu02102	0tu02103	0tu02104	0tu02105
##	CSI002	2.724387e-04	0	0	4.086581e-05	5.448775e-05	0
##	CSI013	1.917484e-04	0	0	1.278323e-04	9.587421e-05	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	4.082049e-05	0
##	CSI034	1.894908e-04	0	0	4.547780e-04	1.705418e-04	0
##	CSI045	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI056	0.000000e+00	0	0	0.000000e+00	1.959286e-05	0
##	CSI066	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##		0tu02106	0tu02107	0tu02108	0tu02109	0tu02110	0tu02111
##	CSI002	0	1.498413e-04	0	0.000000e+00	0.000000e+00	0
##	CSI013	0	1.917484e-04	0	3.195807e-05	0.000000e+00	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI034	0	1.894908e-04	0	0.000000e+00	0.000000e+00	0

##	CSI045	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	1.959286e-05	0
##	CSI066	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##		0tu02112	0tu02113	0tu02114	0tu02115	0tu02116	0tu02117
##	CSI002	0.000000e+00	1.362194e-05	0	0.000000e+00	0	0
##	CSI013	1.278323e-04	6.391614e-05	0	0.000000e+00	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	2.041025e-05	0	0
##	CSI034	0.000000e+00	3.031853e-04	0	5.684725e-05	0	0
##	CSI045	0.000000e+00	4.244621e-04	0	0.000000e+00	0	0
##	CSI056	1.959286e-05	1.959286e-05	0	5.877858e-05	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##		0tu02118	0tu02119	0tu02120	0tu02121	0tu02122	0tu02123
##	CSI002	0	0	0.000000e+00	0	0.0000000000	0.000000e+00
##	CSI013	0	0	0.000000e+00	0	0.0000000000	0.000000e+00
##	CSI023	0	0	0.000000e+00	0	0.0000000000	0.000000e+00
##	CSI034	0	0	1.894908e-05	0	0.0000000000	0.000000e+00
##	CSI045	0	0	0.000000e+00	0	0.0000000000	6.530186e-05
##	CSI056	0	0	7.837144e-05	0	0.0000000000	0.000000e+00
##	CSI066	0	0	0.000000e+00	0	0.0000000000	0.000000e+00
##		0tu02124	0tu02125	0tu02126	0tu02127	0tu02128	0tu02129
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	1.371500e-04
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu02131	0tu02132	0tu02133	0tu02134	0tu02135	0tu02136
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI023	0.000000e+00	0	2.041025e-05	0	0	0.000000e+00
##	CSI034	0.000000e+00	0	1.894908e-05	0	0	0.000000e+00
##	CSI045	6.530186e-05	0	0.000000e+00	0	0	3.265093e-05
##	CSI056	2.938929e-04	0	0.000000e+00	0	0	9.796430e-05
##	CSI066	1.916847e-05	0	1.150108e-04	0	0	0.000000e+00
##		0tu02137	0tu02138	0tu02139	0tu02140	0tu02141	0tu02142
##	CSI002	0	0	0.0000000000	0	0.000000e+00	0.0000000000
##	CSI013	0	0	0.0000000000	0	3.195807e-05	0.0000000000
##	CSI023	0	0	0.0000000000	0	0.000000e+00	0.0000000000
##	CSI034	0	0	0.0000000000	0	3.789817e-05	0.0000000000
##	CSI045	0	0	0.0001959056	0	6.530186e-05	0.0000000000
##	CSI056	0	0	0.0000000000	0	5.877858e-05	0.0001763357
##	CSI066	0	0	0.0000000000	0	0.000000e+00	0.0000000000
##		0tu02143	0tu02144	0tu02145	0tu02146	0tu02147	0tu02148
##	CSI002	2.724387e-05	0	0	1.089755e-04	0	0
##	CSI013	0.000000e+00	0	0	9.267841e-04	0	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI034	1.894908e-05	0	0	1.136945e-04	0	0
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI056	0.000000e+00	0	0	1.175572e-04	0	0
##	CSI066	0.000000e+00	0	0	3.833694e-05	0	0
##		0tu02149	0tu02150	0tu02151	0tu02152	0tu02153	0tu02154
##	CSI002	0.0001498413	0	4.086581e-05	0	0	1.362194e-05
##	CSI013	0.0000000000	0	0.000000e+00	0	0	1.597904e-04



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## CSI023 0.0000000000      0 0.000000e+00      0      0 0.000000e+00
## CSI034 0.0001326436      0 0.000000e+00      0      0 2.463381e-04
## CSI045 0.0000000000      0 0.000000e+00      0      0 0.000000e+00
## CSI056 0.0000000000      0 1.959286e-05      0      0 0.000000e+00
## CSI066 0.0000000000      0 0.000000e+00      0      0 0.000000e+00
##      0tu02155      0tu02156 0tu02157      0tu02158      0tu02159 0tu02160
## CSI002      0 1.362194e-05      0 0.000000e+00 8.173162e-05      0
## CSI013      0 0.000000e+00      0 0.000000e+00 4.154549e-04      0
## CSI023      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI034      0 1.894908e-05      0 1.894908e-05 0.000000e+00      0
## CSI045      0 6.530186e-05      0 0.000000e+00 0.000000e+00      0
## CSI056      0 3.918572e-05      0 5.877858e-05 0.000000e+00      0
## CSI066      0 3.066955e-04      0 5.750542e-05 3.833694e-05      0
##      0tu02161 0tu02162      0tu02163 0tu02164 0tu02165 0tu02166
## CSI002 6.810968e-05      0 0.000000e+00      0      0      0
## CSI013 6.391614e-04      0 0.000000e+00      0      0      0
## CSI023 0.000000e+00      0 0.000000e+00      0      0      0
## CSI034 7.579634e-05      0 0.000000e+00      0      0      0
## CSI045 0.000000e+00      0 0.000000e+00      0      0      0
## CSI056 0.000000e+00      0 1.959286e-05      0      0      0
## CSI066 0.000000e+00      0 1.916847e-05      0      0      0
##      0tu02167      0tu02168      0tu02169 0tu02170 0tu02171 0tu02172
## CSI002 0.000000e+00 0.000000e+00 1.362194e-05      0      0      0
## CSI013 2.237065e-04 0.000000e+00 1.278323e-04      0      0      0
## CSI023 4.082049e-05 0.000000e+00 0.000000e+00      0      0      0
## CSI034 0.000000e+00 0.000000e+00 1.894908e-05      0      0      0
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00      0      0      0
## CSI056 3.918572e-05 0.000000e+00 5.877858e-05      0      0      0
## CSI066 0.000000e+00 1.916847e-05 0.000000e+00      0      0      0
##      0tu02173 0tu02174 0tu02175 0tu02176 0tu02177      0tu02178
## CSI002 5.448775e-05      0      0      0      0 0.000000e+00
## CSI013 2.556646e-04      0      0      0      0 0.000000e+00
## CSI023 2.041025e-05      0      0      0      0 0.000000e+00
## CSI034 0.000000e+00      0      0      0      0 0.000000e+00
## CSI045 1.632546e-04      0      0      0      0 0.000000e+00
## CSI056 0.000000e+00      0      0      0      0 0.000000e+00
## CSI066 0.000000e+00      0      0      0      0 0.000000e+00
##      0tu02179      0tu02180 0tu02181      0tu02182 0tu02183      0tu02184
## CSI002      0 0.000000e+00      0 0.0005040117      0 5.448775e-05
## CSI013      0 9.587421e-05      0 0.0000000000      0 3.195807e-05
## CSI023      0 0.000000e+00      0 0.0000000000      0 2.041025e-05
## CSI034      0 1.515927e-04      0 0.0003789817      0 1.515927e-04
## CSI045      0 0.000000e+00      0 0.0000000000      0 6.530186e-05
## CSI056      0 0.000000e+00      0 0.0000000000      0 0.000000e+00
## CSI066      0 7.667389e-05      0 0.0000000000      0 1.341793e-04
##      0tu02185 0tu02186      0tu02187 0tu02188 0tu02189      0tu02190
## CSI002      0      0 3.541704e-04      0      0 0.0001770852
## CSI013      0      0 0.000000e+00      0      0 0.0000000000
## CSI023      0      0 4.082049e-05      0      0 0.0000000000
## CSI034      0      0 0.000000e+00      0      0 0.0002652872
## CSI045      0      0 6.530186e-05      0      0 0.0000000000
## CSI056      0      0 0.000000e+00      0      0 0.0000000000
## CSI066      0      0 0.000000e+00      0      0 0.0000000000
##      0tu02191 0tu02192 0tu02193      0tu02194 0tu02195 0tu02196

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##	CSI002	1.362194e-05	0	0	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI034	3.979308e-04	0	0	0.000000e+00	0	0
##	CSI045	0.000000e+00	0	0	9.142260e-04	0	0
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0
##		0tu02197	0tu02198	0tu02199	0tu02200	0tu02201	0tu02202
##	CSI002	0	0	2.724387e-05	1.362194e-05	0	0
##	CSI013	0	0	3.195807e-05	0.000000e+00	0	0
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0	0	0.000000e+00	3.789817e-05	0	0
##	CSI045	0	0	0.000000e+00	3.265093e-05	0	0
##	CSI056	0	0	0.000000e+00	2.155215e-04	0	0
##	CSI066	0	0	1.916847e-05	0.000000e+00	0	0
##		0tu02203	0tu02204	0tu02205	0tu02206	0tu02207	0tu02208
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	3.789817e-05	0	0
##	CSI045	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	1.959286e-05	0	0
##	CSI066	0	0	0	0.000000e+00	0	0
##		0tu02210	0tu02211	0tu02212	0tu02213	0tu02214	0tu02215
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu02217	0tu02218	0tu02219	0tu02220	0tu02221	0tu02222
##	CSI002	0	0	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0	0.000000e+00	4.154549e-04	
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0	0.000000e+00	0.000000e+00	
##	CSI066	0	0	0	0.000000e+00	3.833694e-05	
##		0tu02223	0tu02224	0tu02225	0tu02226	0tu02227	0tu02228
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI034	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI045	3.265093e-05	0	0	6.530186e-05	0	0
##	CSI056	0.000000e+00	0	0	7.837144e-05	0	0
##	CSI066	1.916847e-05	0	0	0.000000e+00	0	0
##		0tu02229	0tu02230	0tu02231	0tu02232	0tu02233	0tu02234
##	CSI002	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0

##	CSI066	0	0	1.916847e-05	0	0	0	0
##		0tu02236	0tu02237	0tu02238	0tu02239	0tu02240	0tu02241	
##	CSI002	1.362194e-05	0	0	1.498413e-04	0	0	
##	CSI013	3.195807e-04	0	0	3.195807e-05	0	0	
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI034	3.600326e-04	0	0	2.652872e-04	0	0	
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI056	1.959286e-05	0	0	0.000000e+00	0	0	
##	CSI066	3.833694e-05	0	0	0.000000e+00	0	0	
##		0tu02242	0tu02243	0tu02244	0tu02245	0tu02246		
##	CSI002	0	0.000000e+00	2.315729e-04	0.000000e+00	0		
##	CSI013	0	0.000000e+00	1.917484e-04	0.000000e+00	0		
##	CSI023	0	0.000000e+00	0.000000e+00	0.000000e+00	0		
##	CSI034	0	0.000000e+00	1.515927e-04	0.000000e+00	0		
##	CSI045	0	0.000000e+00	0.000000e+00	2.285565e-04	0		
##	CSI056	0	0.000000e+00	0.000000e+00	0.000000e+00	0		
##	CSI066	0	3.833694e-05	0.000000e+00	9.584236e-05	0		
##		0tu02247	0tu02248	0tu02249	0tu02250	0tu02251		
##	CSI002	0.000000e+00	1.362194e-04	0	1.362194e-05	0.0000000000		
##	CSI013	0.000000e+00	1.917484e-04	0	3.195807e-05	0.0000000000		
##	CSI023	0.000000e+00	0.000000e+00	0	0.000000e+00	0.0000000000		
##	CSI034	0.000000e+00	5.684725e-05	0	5.684725e-05	0.0000000000		
##	CSI045	0.000000e+00	0.000000e+00	0	0.000000e+00	0.0000000000		
##	CSI056	0.000000e+00	0.000000e+00	0	1.959286e-04	0.0000000000		
##	CSI066	3.833694e-05	0.000000e+00	0	3.833694e-05	0.0000000000		
##		0tu02252	0tu02253	0tu02254	0tu02255	0tu02256		
##	CSI002	0	8.173162e-05	4.086581e-05	0	2.724387e-05		
##	CSI013	0	1.917484e-04	9.587421e-05	0	0.000000e+00		
##	CSI023	0	6.123074e-05	0.000000e+00	0	0.000000e+00		
##	CSI034	0	1.705418e-04	9.474542e-05	0	3.789817e-04		
##	CSI045	0	0.000000e+00	0.000000e+00	0	0.000000e+00		
##	CSI056	0	0.000000e+00	0.000000e+00	0	1.959286e-05		
##	CSI066	0	0.000000e+00	0.000000e+00	0	0.000000e+00		
##		0tu02257	0tu02258	0tu02259	0tu02260	0tu02261	0tu02262	
##	CSI002	0.000000e+00	0	0	0	1.362194e-05	0	
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI034	1.894908e-05	0	0	0	0.000000e+00	0	
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI066	3.833694e-05	0	0	0	5.750542e-05	0	
##		0tu02263	0tu02264	0tu02265	0tu02266	0tu02267	0tu02268	0tu02269
##	CSI002	0	4.086581e-05	0	0	0	0	0
##	CSI013	0	3.195807e-05	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	1.306037e-04	0	0	0	0	0
##	CSI056	0	5.877858e-05	0	0	0	0	0
##	CSI066	0	1.916847e-05	0	0	0	0	0
##		0tu02270	0tu02271	0tu02272	0tu02273	0tu02274		
##	CSI002	2.179510e-04	0	0.000000e+00	0.000000e+00	0		
##	CSI013	9.587421e-05	0	0.000000e+00	0.000000e+00	0		
##	CSI023	0.000000e+00	0	2.041025e-05	0.000000e+00	0		
##	CSI034	3.789817e-04	0	0.000000e+00	0.000000e+00	0		

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## CSI045 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI056 0.000000e+00      0 0.000000e+00 2.743000e-04      0
## CSI066 0.000000e+00      0 0.000000e+00 3.066955e-04      0
##      0tu02275 0tu02276      0tu02277 0tu02278 0tu02279 0tu02280
## CSI002 9.535356e-05      0 4.086581e-05      0      0      0
## CSI013 6.391614e-05      0 0.000000e+00      0      0      0
## CSI023 0.000000e+00      0 0.000000e+00      0      0      0
## CSI034 7.579634e-05      0 0.000000e+00      0      0      0
## CSI045 0.000000e+00      0 3.265093e-05      0      0      0
## CSI056 0.000000e+00      0 0.000000e+00      0      0      0
## CSI066 5.750542e-05      0 9.584236e-05      0      0      0
##      0tu02281 0tu02282      0tu02283      0tu02284      0tu02285
## CSI002      0      0 2.724387e-05 6.810968e-05 0.0000000000
## CSI013      0      0 6.391614e-05 6.391614e-05 0.0000000000
## CSI023      0      0 0.000000e+00 0.000000e+00 0.0000000000
## CSI034      0      0 2.842363e-04 1.894908e-05 0.0000000000
## CSI045      0      0 0.000000e+00 0.000000e+00 0.0000000000
## CSI056      0      0 0.000000e+00 0.000000e+00 0.0000000000
## CSI066      0      0 0.000000e+00 0.000000e+00 0.0000000000
##      0tu02286 0tu02287      0tu02288      0tu02289 0tu02290
## CSI002 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI013 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI034 0.000000e+00      0 0.000000e+00 1.894908e-05      0
## CSI045 3.265093e-05      0 0.000000e+00 0.000000e+00      0
## CSI056 0.000000e+00      0 1.763357e-04 0.000000e+00      0
## CSI066 0.000000e+00      0 7.667389e-05 0.000000e+00      0
##      0tu02291      0tu02292      0tu02293 0tu02294      0tu02295
## CSI002 0.000000e+00 1.362194e-05 0.000000e+00      0 9.535356e-05
## CSI013 0.000000e+00 0.000000e+00 0.000000e+00      0 1.917484e-04
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI034 0.000000e+00 1.894908e-05 3.789817e-05      0 1.326436e-04
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI056 0.000000e+00 0.000000e+00 0.000000e+00      0 7.837144e-05
## CSI066 0.000000e+00 0.000000e+00 0.000000e+00      0 0.000000e+00
##      0tu02296      0tu02297      0tu02298      0tu02299 0tu02300
## CSI002      0 1.907071e-04 0.000000e+00 0.000000e+00      0
## CSI013      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI023      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI034      0 1.894908e-05 0.000000e+00 0.000000e+00      0
## CSI045      0 0.000000e+00 0.000000e+00 3.265093e-05      0
## CSI056      0 0.000000e+00 2.547072e-04 0.000000e+00      0
## CSI066      0 2.491901e-04 1.916847e-05 3.833694e-05      0
##      0tu02301 0tu02302 0tu02303      0tu02304 0tu02305 0tu02306
## CSI002 0.000000e+00      0      0 0.000000e+00      0      0
## CSI013 0.000000e+00      0      0 0.000000e+00      0      0
## CSI023 0.000000e+00      0      0 0.000000e+00      0      0
## CSI034 1.894908e-05      0      0 0.000000e+00      0      0
## CSI045 0.000000e+00      0      0 0.000000e+00      0      0
## CSI056 0.000000e+00      0      0 0.000000e+00      0      0
## CSI066 0.000000e+00      0      0 1.916847e-05      0      0
##      0tu02307 0tu02308 0tu02309 0tu02310 0tu02311      0tu02312
## CSI002 1.362194e-05      0      0      0      0 0.000000e+00
## CSI013 1.278323e-04      0      0      0      0 0.000000e+00

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##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI034	2.273890e-04	0	0	0	0	0.000000e+00
##	CSI045	0.000000e+00	0	0	0	0	2.285565e-04
##	CSI056	0.000000e+00	0	0	0	0	3.918572e-05
##	CSI066	0.000000e+00	0	0	0	0	1.150108e-04
##		0tu02313	0tu02314	0tu02315	0tu02316	0tu02317	0tu02318
##	CSI002	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI013	6.391614e-05	1.917484e-04	0	0.000000e+00	0	0
##	CSI023	2.041025e-05	0.000000e+00	0	0.000000e+00	0	0
##	CSI034	7.579634e-05	9.474542e-05	0	0.000000e+00	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	3.918572e-05	0.000000e+00	0	7.837144e-05	0	0
##	CSI066	1.916847e-05	0.000000e+00	0	1.916847e-05	0	0
##		0tu02319	0tu02320	0tu02321	0tu02322	0tu02323	0tu02324
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI034	0.000000e+00	0	0	9.474542e-05	0	0.000000e+00
##	CSI045	3.265093e-05	0	0	0.000000e+00	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	7.837144e-05
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##		0tu02325	0tu02326	0tu02327	0tu02328	0tu02329	0tu02330
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	3.918572e-05	0	0	0	0
##	CSI066	0	3.833694e-05	0	0	0	0
##		0tu02332	0tu02333	0tu02334	0tu02335	0tu02336	0tu02337
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	1.959286e-05	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu02339	0tu02340	0tu02341	0tu02342	0tu02343	0tu02344
##	CSI002	8.173162e-05	0	1.362194e-05	0	0	0
##	CSI013	1.278323e-04	0	9.587421e-05	0	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI034	2.842363e-04	0	2.084399e-04	0	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0	1.959286e-05	0	0	0
##	CSI066	0.000000e+00	0	1.916847e-05	0	0	0
##		0tu02345	0tu02346	0tu02347	0tu02348	0tu02349	0tu02350
##	CSI002	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI013	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI023	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI034	0	0	0	1.894908e-05	0	1.894908e-05
##	CSI045	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI056	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI066	0	0	0	0.000000e+00	0	0.000000e+00
##		0tu02351	0tu02352	0tu02353	0tu02354	0tu02355	0tu02356
##							0tu02357

##	CSI002	0	0	0	0	0 0.000000e+00	0
##	CSI013	0	0	0	0	0 0.000000e+00	0
##	CSI023	0	0	0	0	0 0.000000e+00	0
##	CSI034	0	0	0	0	0 0.000000e+00	0
##	CSI045	0	0	0	0	0 0.000000e+00	0
##	CSI056	0	0	0	0	0 7.837144e-05	0
##	CSI066	0	0	0	0	0 0.000000e+00	0
##	0tu02358	0tu02359	0tu02360	0tu02361	0tu02362	0tu02363	
##	CSI002	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00		
##	CSI013	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00		
##	CSI023	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00	0 2.041025e-05		
##	CSI034	0 1.894908e-05	0 0.000000e+00	0 0.000000e+00	0 1.894908e-05		
##	CSI045	0 0.000000e+00	0 2.285565e-04	0 0.000000e+00	0 0.000000e+00		
##	CSI056	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00	0 0.000000e+00		
##	CSI066	0 1.916847e-05	0 7.667389e-05	0 5.750542e-05			
##	0tu02364	0tu02365	0tu02366	0tu02367	0tu02368	0tu02369	
##	CSI002	0	0 0.000000e+00	0	0		
##	CSI013	0	0 0.000000e+00	0	0		
##	CSI023	0	0 0.000000e+00	0	0		
##	CSI034	0	0 0.000000e+00	0	0		
##	CSI045	0	0 6.530186e-05	0	0		
##	CSI056	0	0 1.959286e-05	0	0		
##	CSI066	0	0 0.000000e+00	0	0		
##	0tu02370	0tu02371	0tu02372	0tu02373	0tu02374	0tu02375	
##	CSI002	8.173162e-05	0 0.0000000000	0	0	0	
##	CSI013	3.195807e-05	0 0.0000000000	0	0	0	
##	CSI023	0.000000e+00	0 0.0000000000	0	0	0	
##	CSI034	5.684725e-05	0 0.0000000000	0	0	0	
##	CSI045	0.000000e+00	0 0.0000000000	0	0	0	
##	CSI056	0.000000e+00	0 0.0000000000	0	0	0	
##	CSI066	0.000000e+00	0 0.0000000000	0	0	0	
##	0tu02376	0tu02377	0tu02378	0tu02379	0tu02380	0tu02381	0tu02382
##	CSI002	0	0	0	0	0 0.000000e+00	
##	CSI013	0	0	0	0	0 0.000000e+00	
##	CSI023	0	0	0	0	0 0.000000e+00	
##	CSI034	0	0	0	0	0 0.000000e+00	
##	CSI045	0	0	0	0	0 6.530186e-05	
##	CSI056	0	0	0	0	0 0.000000e+00	
##	CSI066	0	0	0	0	0 0.000000e+00	
##	0tu02383	0tu02384	0tu02385	0tu02386	0tu02387	0tu02388	
##	CSI002	0	0 1.089755e-04	0 4.086581e-05			
##	CSI013	0	0 1.278323e-04	0 3.195807e-05			
##	CSI023	0	0 0.000000e+00	0 0.000000e+00			
##	CSI034	0	0 3.789817e-05	0 1.136945e-04			
##	CSI045	0	0 0.000000e+00	0 2.612074e-04			
##	CSI056	0	0 1.763357e-04	0 7.837144e-05			
##	CSI066	0	0 0.000000e+00	0 0.000000e+00			
##	0tu02389	0tu02390	0tu02391	0tu02392	0tu02393	0tu02394	
##	CSI002	0	0 0.000000e+00	0.000000e+00	0	0	
##	CSI013	0	0 0.000000e+00	0.000000e+00	0	0	
##	CSI023	0	0 0.000000e+00	0.000000e+00	0	0	
##	CSI034	0	0 0.000000e+00	0.000000e+00	0	0	
##	CSI045	0	0 2.285565e-04	0.000000e+00	0	0	
##	CSI056	0	0 7.837144e-05	0.000000e+00	0	0	

##	CSI066	0	0	5.750542e-05	0.000000e+00	0	0
##		0tu02395	0tu02396	0tu02397	0tu02398	0tu02399	0tu02400
##	CSI002	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI013	0	6.391614e-05	0	0	0.000000e+00	0
##	CSI023	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	0	0.000000e+00	0	0	1.515927e-04	0
##	CSI045	0	0.000000e+00	0	0	6.530186e-05	0
##	CSI056	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI066	0	0.000000e+00	0	0	5.750542e-05	0
##		0tu02401	0tu02402	0tu02403	0tu02404	0tu02405	0tu02406
##	CSI002	0	0	0.0000000000	0	0	0
##	CSI013	0	0	0.0000000000	0	0	0
##	CSI023	0	0	0.0000000000	0	0	0
##	CSI034	0	0	0.0000000000	0	0	0
##	CSI045	0	0	0.0000000000	0	0	0
##	CSI056	0	0	0.000274300	0	0	0
##	CSI066	0	0	0.0000000000	0	0	0
##		0tu02408	0tu02409	0tu02410	0tu02411	0tu02412	
##	CSI002	0.000000e+00	0.000000e+00	0	0.0000000000	0	
##	CSI013	6.391614e-05	0.000000e+00	0	0.0000000000	0	
##	CSI023	2.041025e-05	0.000000e+00	0	0.0000000000	0	
##	CSI034	7.579634e-05	1.894908e-05	0	0.0000000000	0	
##	CSI045	0.000000e+00	3.265093e-05	0	0.0000000000	0	
##	CSI056	0.000000e+00	1.959286e-05	0	0.0001959286	0	
##	CSI066	5.750542e-05	1.916847e-05	0	0.0000000000	0	
##		0tu02413	0tu02414	0tu02415	0tu02416	0tu02417	0tu02418
##	CSI002	0.000000e+00	0	0	0	1.770852e-04	0.000000e+00
##	CSI013	0.000000e+00	0	0	0	1.278323e-04	0.000000e+00
##	CSI023	0.000000e+00	0	0	0	6.123074e-05	0.000000e+00
##	CSI034	1.894908e-05	0	0	0	1.136945e-04	0.000000e+00
##	CSI045	3.265093e-05	0	0	0	0.000000e+00	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	3.918572e-05
##	CSI066	1.916847e-05	0	0	0	0.000000e+00	0.000000e+00
##		0tu02419	0tu02420	0tu02421	0tu02422	0tu02423	
##	CSI002	0.000000e+00	0	2.860607e-04	2.724387e-05	0	
##	CSI013	0.000000e+00	0	9.587421e-05	6.391614e-05	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0	
##	CSI034	0.000000e+00	0	0.000000e+00	2.084399e-04	0	
##	CSI045	3.265093e-05	0	0.000000e+00	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0.000000e+00	0.000000e+00	0	
##	CSI066	0.000000e+00	0	0.000000e+00	0.000000e+00	0	
##		0tu02424	0tu02425	0tu02426	0tu02427	0tu02428	0tu02429
##	CSI002	0.0000000000	4.086581e-05	0	0	0.000000e+00	0
##	CSI013	0.0000000000	0.000000e+00	0	0	0.000000e+00	0
##	CSI023	0.0000000000	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	0.0000000000	7.579634e-05	0	0	0.000000e+00	0
##	CSI045	0.0000000000	0.000000e+00	0	0	0.000000e+00	0
##	CSI056	0.0000000000	7.837144e-05	0	0	1.371500e-04	0
##	CSI066	0.0001916847	0.000000e+00	0	0	0.000000e+00	0
##		0tu02430	0tu02431	0tu02432	0tu02433	0tu02434	
##	CSI002	0	6.810968e-05	0	0.000000e+00	0.000000e+00	
##	CSI013	0	4.474130e-04	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI034	0	2.084399e-04	0	0.000000e+00	0.000000e+00	

```

## CSI045      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI056      0 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI066      0 0.000000e+00      0 3.833694e-05 0.000000e+00
##      0tu02435      0tu02436 0tu02437      0tu02438 0tu02439 0tu02440
## CSI002 0.000000e+00 1.362194e-05      0 4.086581e-05      0      0
## CSI013 0.000000e+00 0.000000e+00      0 3.195807e-05      0      0
## CSI023 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI034 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI045 6.530186e-05 0.000000e+00      0 0.000000e+00      0      0
## CSI056 0.000000e+00 5.877858e-05      0 0.000000e+00      0      0
## CSI066 1.916847e-05 0.000000e+00      0 1.916847e-05      0      0
##      0tu02441 0tu02442 0tu02443 0tu02444 0tu02445 0tu02446 0tu02447
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu02448 0tu02449      0tu02450      0tu02451      0tu02452 0tu02453
## CSI002      0      0 1.362194e-05 0.000000e+00 0.000000000000      0
## CSI013      0      0 3.195807e-05 0.000000e+00 0.000000000000      0
## CSI023      0      0 4.082049e-05 0.000000e+00 0.000000000000      0
## CSI034      0      0 1.326436e-04 0.000000e+00 0.000000000000      0
## CSI045      0      0 0.000000e+00 0.000000e+00 0.000000000000      0
## CSI056      0      0 0.000000e+00 0.000000e+00 0.000000000000      0
## CSI066      0      0 0.000000e+00 0.000000e+00 0.0001533478      0
##      0tu02454 0tu02455 0tu02456 0tu02457      0tu02458      0tu02459
## CSI002      0      0      0      0 6.810968e-05 0.000000e+00
## CSI013      0      0      0      0 0.000000e+00 0.000000e+00
## CSI023      0      0      0      0 0.000000e+00 0.000000e+00
## CSI034      0      0      0      0 1.326436e-04 0.000000e+00
## CSI045      0      0      0      0 0.000000e+00 1.632546e-04
## CSI056      0      0      0      0 0.000000e+00 0.000000e+00
## CSI066      0      0      0      0 0.000000e+00 3.833694e-05
##      0tu02460      0tu02461      0tu02462      0tu02463      0tu02464
## CSI002      0 0.000000e+00 1.089755e-04 1.225974e-04 0.000000e+00
## CSI013      0 0.000000e+00 0.000000e+00 6.391614e-05 0.000000e+00
## CSI023      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034      0 0.000000e+00 7.579634e-05 1.894908e-05 0.000000e+00
## CSI045      0 3.265093e-05 0.000000e+00 3.265093e-05 6.530186e-05
## CSI056      0 9.796430e-05 0.000000e+00 0.000000e+00 7.837144e-05
## CSI066      0 7.667389e-05 0.000000e+00 3.833694e-05 1.916847e-05
##      0tu02465 0tu02466 0tu02467 0tu02468      0tu02469 0tu02470
## CSI002 0.000000000000      0      0      0 2.724387e-05      0
## CSI013 0.000000000000      0      0      0 3.195807e-05      0
## CSI023 0.000000000000      0      0      0 2.041025e-05      0
## CSI034 0.0001326436      0      0      0 2.652872e-04      0
## CSI045 0.000000000000      0      0      0 0.000000e+00      0
## CSI056 0.000000000000      0      0      0 0.000000e+00      0
## CSI066 0.000000000000      0      0      0 0.000000e+00      0
##      0tu02471      0tu02472      0tu02473      0tu02474 0tu02475
## CSI002      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI013      0 0.000000e+00 0.000000e+00 0.000000e+00      0

```



```

## CSI023      0 0.000000e+00 0.000000e+00 2.041025e-05      0
## CSI034      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI045      0 1.306037e-04 3.265093e-05 0.000000e+00      0
## CSI056      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI066      0 9.584236e-05 3.833694e-05 0.000000e+00      0
##      0tu02476 0tu02477      0tu02478      0tu02479      0tu02480
## CSI002 0.000000e+00      0 0.00000000000 5.448775e-05 8.173162e-05
## CSI013 1.086574e-03      0 0.0018535681 1.917484e-04 0.000000e+00
## CSI023 2.449230e-04      0 0.00000000000 0.000000e+00 0.000000e+00
## CSI034 0.000000e+00      0 0.00000000000 3.979308e-04 1.705418e-04
## CSI045 0.000000e+00      0 0.00000000000 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00      0 0.0001175572 0.000000e+00 1.959286e-05
## CSI066 0.000000e+00      0 0.00000000000 0.000000e+00 0.000000e+00
##      0tu02481      0tu02482      0tu02483 0tu02484      0tu02485
## CSI002      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI013      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI023      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI034      0 0.000000e+00 3.789817e-05      0 0.000000e+00
## CSI045      0 9.795279e-05 0.000000e+00      0 6.530186e-05
## CSI056      0 0.000000e+00 0.000000e+00      0 1.959286e-05
## CSI066      0 0.000000e+00 7.667389e-05      0 3.833694e-05
##      0tu02486      0tu02487      0tu02488      0tu02489 0tu02490
## CSI002 0.000000e+00 0.000000e+00 0.000000e+00 1.362194e-05      0
## CSI013 0.000000e+00 0.000000e+00 0.000000e+00 1.917484e-04      0
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI034 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI045 3.265093e-05 0.000000e+00 3.265093e-05 0.000000e+00      0
## CSI056 0.000000e+00 5.877858e-05 0.000000e+00 0.000000e+00      0
## CSI066 0.000000e+00 3.833694e-05 0.000000e+00 0.000000e+00      0
##      0tu02491 0tu02492 0tu02493 0tu02494 0tu02495      0tu02496 0tu02497
## CSI002      0      0      0      0      0 0.000000e+00      0
## CSI013      0      0      0      0      0 0.000000e+00      0
## CSI023      0      0      0      0      0 0.000000e+00      0
## CSI034      0      0      0      0      0 0.000000e+00      0
## CSI045      0      0      0      0      0 0.000000e+00      0
## CSI056      0      0      0      0      0 0.000000e+00      0
## CSI066      0      0      0      0      0 0.000000e+00      0
##      0tu02498 0tu02499 0tu02500 0tu02501 0tu02502 0tu02503
## CSI002 0.000000e+00      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0
## CSI034 1.894908e-05      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0
##      0tu02504 0tu02505 0tu02506 0tu02507      0tu02508      0tu02509
## CSI002 0.00000000000      0      0      0 0.000000e+00 5.448775e-05
## CSI013 0.00000000000      0      0      0 0.000000e+00 3.834969e-04
## CSI023 0.00000000000      0      0      0 0.000000e+00 2.041025e-05
## CSI034 0.00000000000      0      0      0 3.789817e-05 2.273890e-04
## CSI045 0.00000000000      0      0      0 0.000000e+00 0.000000e+00
## CSI056 0.00000000000      0      0      0 3.722643e-04 0.000000e+00
## CSI066 0.0005558857      0      0      0 1.916847e-05 0.000000e+00
##      0tu02510 0tu02511      0tu02512 0tu02513      0tu02514 0tu02515

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##	CSI002	1.362194e-05	0	0.000000e+00	0	0.000000e+00	0
##	CSI013	0.000000e+00	0	9.587421e-05	0	3.195807e-05	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	1.894908e-05	0	0.000000e+00	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI056	0.000000e+00	0	1.959286e-05	0	0.000000e+00	0
##	CSI066	0.000000e+00	0	5.750542e-05	0	5.750542e-05	0
##		0tu02516	0tu02517	0tu02518	0tu02519	0tu02520	0tu02521
##	CSI002	0.0000000000	0	0	0	0.000000e+00	0
##	CSI013	0.0000000000	0	0	0	0.000000e+00	0
##	CSI023	0.0000000000	0	0	0	0.000000e+00	0
##	CSI034	0.0000000000	0	0	0	0.000000e+00	0
##	CSI045	0.0000000000	0	0	0	1.959056e-04	0
##	CSI056	0.0000000000	0	0	0	0.000000e+00	0
##	CSI066	0.0003066955	0	0	0	0.000000e+00	0
##		0tu02522	0tu02523	0tu02524	0tu02525	0tu02526	
##	CSI002	0.000000e+00	6.810968e-05	0	0	0.000000e+00	
##	CSI013	0.000000e+00	3.515388e-04	0	0	0.000000e+00	
##	CSI023	0.000000e+00	2.041025e-05	0	0	1.428717e-04	
##	CSI034	0.000000e+00	4.358289e-04	0	0	0.000000e+00	
##	CSI045	1.959056e-04	0.000000e+00	0	0	0.000000e+00	
##	CSI056	3.918572e-05	0.000000e+00	0	0	1.175572e-04	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##		0tu02527	0tu02528	0tu02529	0tu02530	0tu02531	0tu02532
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	1.597904e-04
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	0.000000e+00	0	0.000000e+00	0	0	2.842363e-04
##	CSI045	6.530186e-05	0	3.265093e-05	0	0	0.000000e+00
##	CSI056	0.000000e+00	0	9.796430e-05	0	0	0.000000e+00
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##		0tu02533	0tu02534	0tu02535	0tu02536	0tu02537	
##	CSI002	4.086581e-05	0.000000e+00	5.448775e-05	0	0.000000e+00	
##	CSI013	0.000000e+00	0.000000e+00	3.195807e-05	0	0.000000e+00	
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI034	3.789817e-05	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI045	0.000000e+00	3.265093e-05	0.000000e+00	0	0.000000e+00	
##	CSI056	0.000000e+00	1.959286e-05	7.837144e-05	0	0.000000e+00	
##	CSI066	0.000000e+00	0.000000e+00	0.000000e+00	0	0.000000e+00	
##		0tu02538	0tu02539	0tu02540	0tu02541	0tu02542	
##	CSI002	5.448775e-05	2.724387e-05	0.000000e+00	0	0.000000e+00	
##	CSI013	2.237065e-04	2.556646e-04	3.195807e-05	0	0.000000e+00	
##	CSI023	0.000000e+00	6.123074e-05	2.041025e-05	0	0.000000e+00	
##	CSI034	7.579634e-05	0.000000e+00	3.789817e-05	0	0.000000e+00	
##	CSI045	3.265093e-05	0.000000e+00	3.265093e-05	0	0.000000e+00	
##	CSI056	1.959286e-05	0.000000e+00	3.918572e-05	0	0.000000e+00	
##	CSI066	0.000000e+00	9.584236e-05	1.916847e-05	0	1.916847e-05	
##		0tu02543	0tu02544	0tu02545	0tu02546	0tu02547	0tu02548
##	CSI002	0.000000e+00	0	0	1.498413e-04	1.362194e-05	0
##	CSI013	9.587421e-05	0	0	0.000000e+00	1.597904e-04	0
##	CSI023	0.000000e+00	0	0	2.041025e-05	4.082049e-05	0
##	CSI034	9.474542e-05	0	0	2.463381e-04	0.000000e+00	0
##	CSI045	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI056	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0

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## CSI066 0.000000e+00      0      0 0.000000e+00 1.916847e-05      0
##      0tu02549 0tu02550 0tu02551 0tu02552 0tu02553 0tu02554 0tu02555
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu02556      0tu02557      0tu02558 0tu02559      0tu02560
## CSI002      0 0.000000e+00 1.362194e-05      0 0.000000e+00
## CSI013      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI023      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI034      0 3.789817e-05 1.894908e-05      0 0.000000e+00
## CSI045      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI056      0 5.877858e-05 0.000000e+00      0 0.000000e+00
## CSI066      0 5.750542e-05 0.000000e+00      0 0.000000e+00
##      0tu02561 0tu02562      0tu02563 0tu02564 0tu02565 0tu02566
## CSI002 9.535356e-05      0 0.000000e+00      0      0      0
## CSI013 0.000000e+00      0 3.195807e-05      0      0      0
## CSI023 0.000000e+00      0 0.000000e+00      0      0      0
## CSI034 2.842363e-04      0 0.000000e+00      0      0      0
## CSI045 0.000000e+00      0 0.000000e+00      0      0      0
## CSI056 1.959286e-05      0 0.000000e+00      0      0      0
## CSI066 0.000000e+00      0 0.000000e+00      0      0      0
##      0tu02567      0tu02568 0tu02569 0tu02570      0tu02571 0tu02572
## CSI002 2.451949e-04 0.000000e+00      0      0 0.000000e+00      0
## CSI013 9.587421e-05 0.000000e+00      0      0 1.597904e-04      0
## CSI023 1.020512e-04 0.000000e+00      0      0 0.000000e+00      0
## CSI034 7.579634e-05 0.000000e+00      0      0 9.474542e-05      0
## CSI045 0.000000e+00 6.530186e-05      0      0 0.000000e+00      0
## CSI056 5.877858e-05 0.000000e+00      0      0 0.000000e+00      0
## CSI066 0.000000e+00 0.000000e+00      0      0 3.642010e-04      0
##      0tu02573 0tu02574      0tu02575      0tu02576 0tu02577 0tu02578
## CSI002 2.724387e-05      0 0.000000e+00 0.000000e+00      0      0
## CSI013 9.587421e-05      0 0.000000e+00 0.000000e+00      0      0
## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI034 5.874216e-04      0 1.894908e-05 1.136945e-04      0      0
## CSI045 0.000000e+00      0 6.530186e-05 0.000000e+00      0      0
## CSI056 0.000000e+00      0 1.567429e-04 0.000000e+00      0      0
## CSI066 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
##      0tu02579      0tu02580 0tu02581 0tu02582 0tu02583 0tu02584
## CSI002 0.000000e+00 0.0000000000      0      0      0      0
## CSI013 0.000000e+00 0.0000000000      0      0      0      0
## CSI023 0.000000e+00 0.0000000000      0      0      0      0
## CSI034 1.894908e-05 0.0000000000      0      0      0      0
## CSI045 0.000000e+00 0.0000000000      0      0      0      0
## CSI056 0.000000e+00 0.0002938929      0      0      0      0
## CSI066 3.833694e-05 0.0000000000      0      0      0      0
##      0tu02585 0tu02586      0tu02587      0tu02588 0tu02589      0tu02590
## CSI002      0      0 1.362194e-05 0.000000e+00      0 0.000000e+00
## CSI013      0      0 2.237065e-04 0.000000e+00      0 0.000000e+00
## CSI023      0      0 2.041025e-05 0.000000e+00      0 0.000000e+00
## CSI034      0      0 2.463381e-04 0.000000e+00      0 0.000000e+00

```

##	CSI045	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI056	0	0	0.000000e+00	7.837144e-05	0	0.000000e+00
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	0tu02591	0tu02592	0tu02593	0tu02594	0tu02595	0tu02596	
##	CSI002	0	1.089755e-04	0	0.000000e+00	0	0
##	CSI013	0	9.587421e-05	0	1.597904e-04	0	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI034	0	0.000000e+00	0	1.894908e-05	0	0
##	CSI045	0	0.000000e+00	0	1.632546e-04	0	0
##	CSI056	0	0.000000e+00	0	3.918572e-05	0	0
##	CSI066	0	1.916847e-04	0	9.584236e-05	0	0
##	0tu02597	0tu02598	0tu02599	0tu02600	0tu02601	0tu02602	
##	CSI002	0	4.086581e-05	0	0.000000e+00	0	0
##	CSI013	0	3.195807e-05	0	0.000000e+00	0	0
##	CSI023	0	0.000000e+00	0	1.020512e-04	0	0
##	CSI034	0	3.789817e-05	0	1.894908e-05	0	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI066	0	0.000000e+00	0	0.000000e+00	0	0
##	0tu02603	0tu02604	0tu02605	0tu02606	0tu02607	0tu02608	0tu02609
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	1.894908e-05	0	0
##	CSI045	0	0	0	1.306037e-04	0	0
##	CSI056	0	0	0	1.959286e-05	0	0
##	CSI066	0	0	0	3.833694e-05	0	0
##	0tu02610	0tu02611	0tu02612	0tu02613	0tu02614	0tu02615	0tu02616
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	6.530186e-05	0	0
##	CSI056	0	0	0	8.816787e-04	0	0
##	CSI066	0	0	0	3.833694e-05	0	0
##	0tu02617	0tu02618	0tu02619	0tu02620	0tu02621	0tu02622	0tu02623
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##	0tu02624	0tu02625	0tu02626	0tu02627	0tu02628		
##	CSI002	0	1.362194e-05	0.000000e+00	0	5.448775e-05	
##	CSI013	0	0.000000e+00	0.000000e+00	0	1.597904e-04	
##	CSI023	0	4.082049e-05	0.000000e+00	0	0.000000e+00	
##	CSI034	0	0.000000e+00	0.000000e+00	0	7.579634e-05	
##	CSI045	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI056	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI066	0	0.000000e+00	7.667389e-05	0	5.750542e-05	
##	0tu02629	0tu02630	0tu02631	0tu02632	0tu02633	0tu02634	
##	CSI002	4.086581e-04	0	0	0	0	0
##	CSI013	6.391614e-05	0	0	0	0	0

##	CSI023	2.041025e-05	0	0	0	0	0
##	CSI034	7.579634e-05	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	1.959286e-05	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu02635	0tu02636	0tu02637	0tu02638	0tu02639	0tu02640
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI023	0.000000e+00	2.041025e-05	0	0	0	0
##	CSI034	5.684725e-05	0.000000e+00	0	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu02641	0tu02642	0tu02643	0tu02644	0tu02645	0tu02646
##	CSI002	1.362194e-04	1.362194e-05	0	1.362194e-04	0	0
##	CSI013	2.556646e-04	3.195807e-05	0	6.391614e-05	0	0
##	CSI023	0.000000e+00	4.082049e-05	0	0.000000e+00	0	0
##	CSI034	3.600326e-04	6.442688e-04	0	3.789817e-05	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	3.265093e-05	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##		0tu02647	0tu02648	0tu02649	0tu02650	0tu02651	0tu02652
##	CSI002	2.860607e-04	0	0.000000e+00	4.086581e-05	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	1.278323e-04	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	3.789817e-05	0	0.000000e+00	1.894908e-05	0	0
##	CSI045	0.000000e+00	0	3.265093e-05	6.530186e-05	0	0
##	CSI056	0.000000e+00	0	2.351143e-04	2.351143e-04	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##		0tu02653	0tu02654	0tu02655	0tu02656	0tu02657	0tu02658
##	CSI002	0.000000e+00	4.359020e-04	0	8.173162e-05	0	0
##	CSI013	0.000000e+00	3.195807e-05	0	2.876226e-04	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI034	0.000000e+00	0.000000e+00	0	3.600326e-04	0	0
##	CSI045	0.000000e+00	6.530186e-05	0	0.000000e+00	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI066	0.000000e+00	1.916847e-05	0	0.000000e+00	0	0
##		0tu02659	0tu02660	0tu02661	0tu02662	0tu02663	0tu02664
##	CSI002	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI013	0	1.278323e-04	0.000000e+00	0	0	0
##	CSI023	0	2.041025e-05	0.000000e+00	0	0	0
##	CSI034	0	7.579634e-05	0.000000e+00	0	0	0
##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI056	0	0.000000e+00	1.959286e-05	0	0	0
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0
##		0tu02665	0tu02666	0tu02667	0tu02668	0tu02669	0tu02670
##	CSI002	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	5.877858e-05	0
##	CSI066	0	0	0	0	0.000000e+00	0
##		0tu02672	0tu02673	0tu02674	0tu02675	0tu02676	0tu02677

##	CSI002	0 0.000000e+00	0 4.086581e-05	0	0
##	CSI013	0 0.000000e+00	0 6.391614e-05	0	0
##	CSI023	0 0.000000e+00	0 0.000000e+00	0	0
##	CSI034	0 0.000000e+00	0 5.684725e-05	0	0
##	CSI045	0 0.000000e+00	0 0.000000e+00	0	0
##	CSI056	0 0.000000e+00	0 0.000000e+00	0	0
##	CSI066	0 5.750542e-05	0 1.916847e-05	0	0
##		0tu02678 0tu02679	0tu02680	0tu02681 0tu02682	0tu02683
##	CSI002	0.000000e+00	0 0.0000000000	0.000000e+00	0
##	CSI013	3.195807e-05	0 0.0000000000	0.000000e+00	0
##	CSI023	0.000000e+00	0 0.0000000000	0.000000e+00	0
##	CSI034	0.000000e+00	0 0.0000000000	0.000000e+00	0
##	CSI045	0.000000e+00	0 0.0000000000	6.530186e-05	0
##	CSI056	0.000000e+00	0 0.0012343502	1.959286e-05	0
##	CSI066	0.000000e+00	0 0.0000000000	0.000000e+00	0
##		0tu02684 0tu02685	0tu02686 0tu02687	0tu02688	0tu02689
##	CSI002	0 0.0000000000	1.362194e-05	0	0 0.000000e+00
##	CSI013	0 0.0000000000	0.000000e+00	0	0 0.000000e+00
##	CSI023	0 0.0000000000	2.041025e-05	0	0 0.000000e+00
##	CSI034	0 0.0000000000	1.894908e-05	0	0 0.000000e+00
##	CSI045	0 0.0000000000	0.000000e+00	0	0 0.000000e+00
##	CSI056	0 0.0000000000	0.000000e+00	0	0 0.000000e+00
##	CSI066	0 0.0001341793	0.000000e+00	0	0 0.000000e+00
##		0tu02690 0tu02691	0tu02692 0tu02693	0tu02694	0tu02695
##	CSI002	0.0000000000	0.000000e+00	0	0 4.222800e-04
##	CSI013	0.0000000000	0.000000e+00	0	0 3.195807e-05
##	CSI023	0.0000000000	2.041025e-05	0	0 6.123074e-05
##	CSI034	0.0000000000	0.000000e+00	0	0 1.894908e-05
##	CSI045	0.0000000000	0.000000e+00	0	0 0.000000e+00
##	CSI056	0.0000000000	0.000000e+00	0	0 0.000000e+00
##	CSI066	0.0000000000	0.000000e+00	0	0 0.000000e+00
##		0tu02696 0tu02697	0tu02698 0tu02699	0tu02700	0tu02701
##	CSI002	0.000000e+00	0	0	0 1.089755e-04
##	CSI013	0.000000e+00	0	0	0 1.278323e-04
##	CSI023	0.000000e+00	0	0	0 0.000000e+00
##	CSI034	0.000000e+00	0	0	0 3.789817e-05
##	CSI045	3.265093e-05	0	0	0 0.000000e+00
##	CSI056	0.000000e+00	0	0	0 0.000000e+00
##	CSI066	1.916847e-05	0	0	0 0.000000e+00
##		0tu02702 0tu02703	0tu02704 0tu02705	0tu02706	
##	CSI002	0.000000e+00	0 4.086581e-05	0 0.000000e+00	
##	CSI013	0.000000e+00	0 2.556646e-04	0 0.000000e+00	
##	CSI023	0.000000e+00	0 0.000000e+00	0 0.000000e+00	
##	CSI034	0.000000e+00	0 2.652872e-04	0 0.000000e+00	
##	CSI045	6.530186e-05	0 0.000000e+00	0 0.000000e+00	
##	CSI056	0.000000e+00	0 0.000000e+00	0 4.114501e-04	
##	CSI066	3.833694e-05	0 0.000000e+00	0 1.916847e-05	
##		0tu02707 0tu02708	0tu02709 0tu02710	0tu02711 0tu02712	
##	CSI002	0.000000e+00	0 0.000000e+00	0.000000e+00	0
##	CSI013	3.195807e-05	0 0.000000e+00	0.000000e+00	0
##	CSI023	0.000000e+00	0 0.000000e+00	0.000000e+00	0
##	CSI034	0.000000e+00	0 3.789817e-05	0.000000e+00	0
##	CSI045	0.000000e+00	0 0.000000e+00	2.612074e-04	0
##	CSI056	1.959286e-05	0 0.000000e+00	0.000000e+00	0

##	CSI066	0.000000e+00	0	0.000000e+00	1.725162e-04	0	0
##		0tu02713	0tu02714	0tu02715	0tu02716	0tu02717	0tu02718
##	CSI002	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0	0	3.789817e-05	0.000000e+00	0	0
##	CSI045	0	0	0.000000e+00	1.959056e-04	0	0
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI066	0	0	0.000000e+00	7.092335e-04	0	0
##		0tu02719	0tu02720	0tu02721	0tu02722	0tu02723	
##	CSI002	4.086581e-05	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI013	9.587421e-05	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI023	0.000000e+00	0	6.123074e-05	2.041025e-05	0.000000e+00	
##	CSI034	3.789817e-05	0	0.000000e+00	1.894908e-05	1.894908e-05	
##	CSI045	0.000000e+00	0	0.000000e+00	3.265093e-05	0.000000e+00	
##	CSI056	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI066	0.000000e+00	0	2.491901e-04	3.833694e-05	0.000000e+00	
##		0tu02724	0tu02725	0tu02726	0tu02727	0tu02728	0tu02729
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	3.918572e-05	0	0	0	0	0
##	CSI066	1.150108e-04	0	0	0	0	0
##		0tu02731	0tu02732	0tu02733	0tu02734	0tu02735	0tu02736
##	CSI002	0	0	0	0.000000e+00	0	9.535356e-05
##	CSI013	0	0	0	0.000000e+00	0	3.195807e-05
##	CSI023	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI034	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI045	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI056	0	0	0	3.918572e-05	0	0.000000e+00
##	CSI066	0	0	0	0.000000e+00	0	0.000000e+00
##		0tu02737	0tu02738	0tu02739	0tu02740	0tu02741	0tu02742
##	CSI002	0	0	0	0	1.362194e-05	0
##	CSI013	0	0	0	0	6.391614e-05	0
##	CSI023	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	3.789817e-04	0
##	CSI045	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0.000000e+00	0
##		0tu02744	0tu02745	0tu02746	0tu02747	0tu02748	0tu02749
##	CSI002	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0
##		0tu02751	0tu02752	0tu02753	0tu02754	0tu02755	0tu02756
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0

##	CSI045	0	0	0	0	0	0 0.000000e+00
##	CSI056	0	0	0	0	0	0 1.959286e-05
##	CSI066	0	0	0	0	0	0 0.000000e+00
##		0tu02758	0tu02759	0tu02760	0tu02761	0tu02762	0tu02763 0tu02764
##	CSI002	0	0	0	0 0.000000e+00	0	0
##	CSI013	0	0	0	0 0.000000e+00	0	0
##	CSI023	0	0	0	0 0.000000e+00	0	0
##	CSI034	0	0	0	0 0.000000e+00	0	0
##	CSI045	0	0	0	0 0.000000e+00	0	0
##	CSI056	0	0	0	0 0.000000e+00	0	0
##	CSI066	0	0	0	0 1.916847e-05	0	0
##		0tu02765	0tu02766	0tu02767	0tu02768	0tu02769	0tu02770
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI013	0.000000e+00	3.195807e-05	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	0.000000e+00	1.894908e-05	0	0	0	0
##	CSI045	0.000000e+00	1.959056e-04	0	0	0	0
##	CSI056	0.000000e+00	3.330786e-04	0	0	0	0
##	CSI066	1.916847e-05	1.916847e-05	0	0	0	0
##		0tu02771	0tu02772	0tu02773	0tu02774	0tu02775	0tu02776 0tu02777
##	CSI002	0	0	0	0	0 0.0000000000	0
##	CSI013	0	0	0	0	0 0.0000000000	0
##	CSI023	0	0	0	0	0 0.0000000000	0
##	CSI034	0	0	0	0	0 0.0000000000	0
##	CSI045	0	0	0	0	0 0.0000000000	0
##	CSI056	0	0	0	0	0 0.0000000000	0
##	CSI066	0	0	0	0	0 0.0000000000	0
##		0tu02778	0tu02779	0tu02780	0tu02781	0tu02782	0tu02783
##	CSI002	0.000000e+00	0	0 0.000000e+00	0	0	0
##	CSI013	0.000000e+00	0	0 2.237065e-04	0	0	0
##	CSI023	0.000000e+00	0	0 2.041025e-05	0	0	0
##	CSI034	0.000000e+00	0	0 2.273890e-04	0	0	0
##	CSI045	0.000000e+00	0	0 3.265093e-05	0	0	0
##	CSI056	0.000000e+00	0	0 0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0	0 9.584236e-05	0	0	0
##		0tu02784	0tu02785	0tu02786	0tu02787	0tu02788	0tu02789
##	CSI002	0.000000e+00	0.0000000000	0	0	0	0
##	CSI013	0.000000e+00	0.0000000000	0	0	0	0
##	CSI023	0.000000e+00	0.0000000000	0	0	0	0
##	CSI034	1.894908e-05	0.0000000000	0	0	0	0
##	CSI045	6.530186e-05	0.0000000000	0	0	0	0
##	CSI056	0.000000e+00	0.0000000000	0	0	0	0
##	CSI066	0.000000e+00	0.0000000000	0	0	0	0
##		0tu02790	0tu02791	0tu02792	0tu02793	0tu02794	0tu02795
##	CSI002	0.000000e+00	1.362194e-05	0	0	0 1.089755e-04	
##	CSI013	0.000000e+00	1.597904e-04	0	0	0 3.195807e-05	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0 6.123074e-05	
##	CSI034	0.000000e+00	0.000000e+00	0	0	0 2.463381e-04	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0 0.000000e+00	
##	CSI056	0.000000e+00	7.837144e-05	0	0	0 0.000000e+00	
##	CSI066	0.000000e+00	9.584236e-05	0	0	0 1.916847e-05	
##		0tu02796	0tu02797	0tu02798	0tu02799	0tu02800	0tu02801
##	CSI002	0.000000e+00	0	0 6.810968e-05	0	0 1.362194e-05	
##	CSI013	0.000000e+00	0	0 0.000000e+00	0	0 0.000000e+00	



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## CSI023 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI034 0.000000e+00      0      0 3.789817e-05      0 1.894908e-05
## CSI045 3.265093e-05      0      0 0.000000e+00      0 0.000000e+00
## CSI056 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI066 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
##      0tu02802 0tu02803 0tu02804      0tu02805 0tu02806      0tu02807
## CSI002 5.448775e-05      0      0 0.000000e+00      0 6.810968e-05
## CSI013 3.515388e-04      0      0 0.000000e+00      0 0.000000e+00
## CSI023 2.041025e-05      0      0 0.000000e+00      0 0.000000e+00
## CSI034 1.515927e-04      0      0 0.000000e+00      0 9.474542e-05
## CSI045 0.000000e+00      0      0 3.265093e-05      0 0.000000e+00
## CSI056 0.000000e+00      0      0 7.837144e-05      0 0.000000e+00
## CSI066 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
##      0tu02808      0tu02809 0tu02810 0tu02811 0tu02812 0tu02813
## CSI002 0.000000e+00 0.000000e+00      0      0      0      0
## CSI013 2.876226e-04 6.391614e-05      0      0      0      0
## CSI023 4.082049e-05 6.123074e-05      0      0      0      0
## CSI034 0.000000e+00 3.789817e-05      0      0      0      0
## CSI045 0.000000e+00 0.000000e+00      0      0      0      0
## CSI056 0.000000e+00 0.000000e+00      0      0      0      0
## CSI066 1.916847e-05 0.000000e+00      0      0      0      0
##      0tu02814 0tu02815      0tu02816      0tu02817 0tu02818
## CSI002 1.362194e-05      0 0.000000e+00 0.000000e+00      0
## CSI013 1.597904e-04      0 0.000000e+00 0.000000e+00      0
## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI034 9.474542e-05      0 0.000000e+00 0.000000e+00      0
## CSI045 0.000000e+00      0 0.000000e+00 3.265093e-05      0
## CSI056 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI066 0.000000e+00      0 2.300217e-04 0.000000e+00      0
##      0tu02819      0tu02820 0tu02821 0tu02822      0tu02823 0tu02824
## CSI002 0.000000e+00 1.362194e-05      0      0 1.362194e-05      0
## CSI013 0.000000e+00 0.000000e+00      0      0 3.195807e-05      0
## CSI023 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI034 0.000000e+00 1.894908e-05      0      0 0.000000e+00      0
## CSI045 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI056 0.000000e+00 1.567429e-04      0      0 0.000000e+00      0
## CSI066 3.833694e-05 2.875271e-04      0      0 0.000000e+00      0
##      0tu02825 0tu02826      0tu02827 0tu02828      0tu02829 0tu02830
## CSI002 8.173162e-05      0 1.362194e-05      0 8.173162e-05      0
## CSI013 0.000000e+00      0 0.000000e+00      0 1.917484e-04      0
## CSI023 1.632820e-04      0 0.000000e+00      0 0.000000e+00      0
## CSI034 5.684725e-05      0 2.842363e-04      0 2.084399e-04      0
## CSI045 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI056 2.155215e-04      0 0.000000e+00      0 0.000000e+00      0
## CSI066 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
##      0tu02831 0tu02832 0tu02833 0tu02834 0tu02835 0tu02836 0tu02837
## CSI002 1.362194e-05      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 5.684725e-05      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu02838      0tu02839 0tu02840      0tu02841      0tu02842

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##	CSI002	0	4.903897e-04	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0.000000e+00	0	2.612074e-04	0.000000e+00	
##	CSI056	0	0.000000e+00	0	0.000000e+00	3.918572e-05	
##	CSI066	0	0.000000e+00	0	4.217064e-04	0.000000e+00	
##		0tu02843	0tu02844	0tu02845	0tu02846	0tu02847	0tu02848
##	CSI002	2.724387e-05	1.362194e-05	0	0	0	0
##	CSI013	0.000000e+00	1.278323e-04	0	0	0	0
##	CSI023	0.000000e+00	4.082049e-05	0	0	0	0
##	CSI034	7.579634e-05	0.000000e+00	0	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI056	1.959286e-05	0.000000e+00	0	0	0	0
##	CSI066	0.000000e+00	1.150108e-04	0	0	0	0
##		0tu02849	0tu02850	0tu02851	0tu02852	0tu02853	0tu02854
##	CSI002	0	4.086581e-05	0	0	0	0
##	CSI013	0	6.391614e-05	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	5.684725e-05	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	1.916847e-05	0	0	0	0
##		0tu02856	0tu02857	0tu02858	0tu02859	0tu02860	
##	CSI002	0	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI013	0	0.000000e+00	6.391614e-05	0.000000e+00	0	
##	CSI023	0	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI034	0	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI045	0	0.000000e+00	0.000000e+00	0.000000e+00	0	
##	CSI056	0	2.547072e-04	0.000000e+00	0.000000e+00	0	
##	CSI066	0	3.833694e-05	0.000000e+00	0.000000e+00	0	
##		0tu02861	0tu02862	0tu02863	0tu02864	0tu02865	0tu02866
##	CSI002	4.086581e-05	0.000000e+00	0	0	0	0
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI066	7.667389e-05	1.916847e-05	0	0	0	0
##		0tu02867	0tu02868	0tu02869	0tu02870	0tu02871	
##	CSI002	0.000000e+00	0	0.000000e+00	0.0000000000	0	
##	CSI013	0.000000e+00	0	0.000000e+00	0.0000000000	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0.0000000000	0	
##	CSI034	7.579634e-05	0	0.000000e+00	0.0000000000	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0.0001632546	0	
##	CSI056	0.000000e+00	0	0.000000e+00	0.0000000000	0	
##	CSI066	3.833694e-05	0	5.750542e-05	0.0000000000	0	
##		0tu02872	0tu02873	0tu02874	0tu02875	0tu02876	0tu02877
##	CSI002	2.724387e-05	0	0.000000e+00	0.000000e+00	0	0
##	CSI013	2.876226e-04	0	1.278323e-04	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0.000000e+00	0	3.789817e-05	0.000000e+00	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI056	0.000000e+00	0	2.155215e-04	0.000000e+00	0	0

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## CSI066 0.000000e+00      0 0.000000e+00 1.916847e-05      0      0
##      0tu02878 0tu02879 0tu02880      0tu02881 0tu02882 0tu02883 0tu02884
## CSI002      0      0      0 0.000000e+00      0      0      0
## CSI013      0      0      0 6.391614e-05      0      0      0
## CSI023      0      0      0 0.000000e+00      0      0      0
## CSI034      0      0      0 0.000000e+00      0      0      0
## CSI045      0      0      0 0.000000e+00      0      0      0
## CSI056      0      0      0 0.000000e+00      0      0      0
## CSI066      0      0      0 1.916847e-05      0      0      0
##      0tu02885 0tu02886 0tu02887 0tu02888      0tu02889      0tu02890
## CSI002 0.0000000000      0      0      0 0.000000e+00 0.000000e+00
## CSI013 0.0000000000      0      0      0 0.000000e+00 0.000000e+00
## CSI023 0.0000000000      0      0      0 0.000000e+00 0.000000e+00
## CSI034 0.0000000000      0      0      0 0.000000e+00 0.000000e+00
## CSI045 0.0000000000      0      0      0 0.000000e+00 6.530186e-05
## CSI056 0.0000000000      0      0      0 0.000000e+00 5.877858e-05
## CSI066 0.0000000000      0      0      0 3.833694e-05 1.341793e-04
##      0tu02891 0tu02892      0tu02893 0tu02894 0tu02895      0tu02896
## CSI002      0      0 0.000000e+00      0      0 0.000000e+00
## CSI013      0      0 0.000000e+00      0      0 9.587421e-04
## CSI023      0      0 0.000000e+00      0      0 0.000000e+00
## CSI034      0      0 0.000000e+00      0      0 0.000000e+00
## CSI045      0      0 0.000000e+00      0      0 0.000000e+00
## CSI056      0      0 0.000000e+00      0      0 5.877858e-05
## CSI066      0      0 4.408748e-04      0      0 0.000000e+00
##      0tu02897 0tu02898 0tu02899      0tu02900      0tu02901
## CSI002 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI013 3.195807e-05      0      0 0.000000e+00 3.195807e-05
## CSI023 2.041025e-05      0      0 0.000000e+00 0.000000e+00
## CSI034 9.474542e-05      0      0 0.000000e+00 9.474542e-05
## CSI045 6.530186e-05      0      0 0.000000e+00 3.265093e-05
## CSI056 9.796430e-05      0      0 5.877858e-05 0.000000e+00
## CSI066 0.000000e+00      0      0 0.000000e+00 0.000000e+00
##      0tu02902 0tu02903 0tu02904 0tu02905      0tu02906 0tu02907
## CSI002 2.724387e-05      0      0      0 1.362194e-05      0
## CSI013 1.597904e-04      0      0      0 0.000000e+00      0
## CSI023 0.000000e+00      0      0      0 0.000000e+00      0
## CSI034 9.474542e-05      0      0      0 0.000000e+00      0
## CSI045 0.000000e+00      0      0      0 0.000000e+00      0
## CSI056 0.000000e+00      0      0      0 3.918572e-05      0
## CSI066 0.000000e+00      0      0      0 0.000000e+00      0
##      0tu02908      0tu02909 0tu02910 0tu02911      0tu02912 0tu02913
## CSI002 1.362194e-05 0.000000e+00      0      0 1.362194e-05      0
## CSI013 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI023 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI034 0.000000e+00 0.000000e+00      0      0 7.579634e-05      0
## CSI045 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI056 1.959286e-05 0.000000e+00      0      0 0.000000e+00      0
## CSI066 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
##      0tu02914      0tu02915 0tu02916 0tu02917 0tu02918      0tu02919
## CSI002      0 0.000000e+00      0      0      0 0.000000e+00
## CSI013      0 6.391614e-05      0      0      0 0.000000e+00
## CSI023      0 0.000000e+00      0      0      0 0.000000e+00
## CSI034      0 1.326436e-04      0      0      0 0.000000e+00

```

##	CSI045	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI056	0	3.918572e-05	0	0	0	0.000000e+00
##	CSI066	0	3.833694e-05	0	0	0	0.000000e+00
##		0tu02920	0tu02921	0tu02922	0tu02923	0tu02924	0tu02925
##	CSI002	0.000000e+00	0	0.000000e+00	0	2.724387e-05	0
##	CSI013	3.195807e-05	0	0.000000e+00	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	9.795279e-05	0
##	CSI056	0.000000e+00	0	1.959286e-05	0	0.000000e+00	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##		0tu02926	0tu02927	0tu02928	0tu02929	0tu02930	0tu02931
##	CSI002	4.086581e-05	0.000000e+00	0	0	0.000000e+00	0
##	CSI013	1.278323e-04	0.000000e+00	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	9.474542e-05	0.000000e+00	0	0	0.000000e+00	0
##	CSI045	0.000000e+00	3.265093e-05	0	0	3.265093e-05	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	1.959286e-05	0
##	CSI066	1.916847e-05	3.833694e-05	0	0	0.000000e+00	0
##		0tu02932	0tu02933	0tu02934	0tu02935	0tu02936	0tu02937
##	CSI002	0	0	0	0.000000e+00	0.000000e+00	5.448775e-05
##	CSI013	0	0	0	0.000000e+00	3.195807e-05	6.391614e-05
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI034	0	0	0	3.789817e-05	0.000000e+00	5.684725e-05
##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI056	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI066	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##		0tu02938	0tu02939	0tu02940	0tu02941	0tu02942	0tu02943
##	CSI002	0	0	0	0	1.362194e-05	0.0000000000
##	CSI013	0	0	0	0	3.195807e-05	0.0000000000
##	CSI023	0	0	0	0	0.000000e+00	0.0000000000
##	CSI034	0	0	0	0	7.579634e-05	0.0000000000
##	CSI045	0	0	0	0	0.000000e+00	0.0001632546
##	CSI056	0	0	0	0	0.000000e+00	0.0000979643
##	CSI066	0	0	0	0	0.000000e+00	0.0001725162
##		0tu02944	0tu02945	0tu02946	0tu02947	0tu02948	0tu02949
##	CSI002	0	0	0	0	0.000000e+00	1.362194e-05
##	CSI013	0	0	0	0	0.000000e+00	2.237065e-04
##	CSI023	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI034	0	0	0	0	1.894908e-05	5.684725e-05
##	CSI045	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI056	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI066	0	0	0	0	0.000000e+00	1.916847e-05
##		0tu02950	0tu02951	0tu02952	0tu02953	0tu02954	0tu02955
##	CSI002	0.0000000000	0	0	0	0	0
##	CSI013	0.0000000000	0	0	0	0	0
##	CSI023	0.0000000000	0	0	0	0	0
##	CSI034	0.0000000000	0	0	0	0	0
##	CSI045	0.0000000000	0	0	0	0	0
##	CSI056	0.0000000000	0	0	0	0	0
##	CSI066	0.0002108532	0	0	0	0	0
##		0tu02956	0tu02957	0tu02958	0tu02959	0tu02960	0tu02961
##	CSI002	6.810968e-05	0	0.000000e+00	0	0	0
##	CSI013	2.237065e-04	0	0.000000e+00	0	0	0

##	CSI023	2.041025e-05	0	0.000000e+00	0	0	0
##	CSI034	7.579634e-05	0	0.000000e+00	0	0	0
##	CSI045	0.000000e+00	0	9.795279e-05	0	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0
##		0tu02962	0tu02963	0tu02964	0tu02965	0tu02966	
##	CSI002	5.448775e-05	0	0.000000e+00	0.000000e+00	4.086581e-05	
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI023	0.000000e+00	0	0.000000e+00	2.041025e-05	0.000000e+00	
##	CSI034	5.684725e-05	0	5.684725e-05	0.000000e+00	0.000000e+00	
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI056	0.000000e+00	0	0.000000e+00	1.371500e-04	0.000000e+00	
##	CSI066	0.000000e+00	0	0.000000e+00	0.000000e+00	1.916847e-05	
##		0tu02967	0tu02968	0tu02969	0tu02970	0tu02971	0tu02972
##	CSI002	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI013	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI023	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI034	0	0	0	0.000000e+00	0	5.684725e-05
##	CSI045	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI056	0	0	0	5.877858e-05	0	1.959286e-05
##	CSI066	0	0	0	0.000000e+00	0	0.000000e+00
##		0tu02973	0tu02974	0tu02975	0tu02976	0tu02977	0tu02978
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	9.587421e-05	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	6.530186e-05	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	3.833694e-05	0	0	0	0
##		0tu02980	0tu02981	0tu02982	0tu02983	0tu02984	0tu02985
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	2.041025e-05	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu02986	0tu02987	0tu02988	0tu02989	0tu02990	0tu02991
##	CSI002	1.362194e-05	1.362194e-05	0	0	0	0
##	CSI013	0.000000e+00	3.195807e-05	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	0.000000e+00	1.894908e-05	0	0	0	0
##	CSI045	3.265093e-05	0.000000e+00	0	0	0	0
##	CSI056	1.959286e-05	0.000000e+00	0	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu02992	0tu02993	0tu02994	0tu02995	0tu02996	0tu02997
##	CSI002	0.000000e+00	0	0	0	0	2.724387e-05
##	CSI013	0.000000e+00	0	0	0	0	3.195807e-05
##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI034	0.000000e+00	0	0	0	0	5.684725e-05
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu02998	0tu02999	0tu03000	0tu03001	0tu03002	0tu03003

##	CSI002	0	0	2.724387e-05	0.000000e+00	0	0
##	CSI013	0	0	6.391614e-05	0.000000e+00	0	0
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0	0	5.684725e-05	0.000000e+00	0	0
##	CSI045	0	0	0.000000e+00	3.265093e-05	0	0
##	CSI056	0	0	0.000000e+00	1.959286e-05	0	0
##	CSI066	0	0	0.000000e+00	3.833694e-05	0	0
##		0tu03004	0tu03005	0tu03006	0tu03007	0tu03008	0tu03009
##	CSI002	0	0	2.724387e-05	0.000000e+00	0.000000e+00	0
##	CSI013	0	0	9.587421e-05	3.195807e-05	0.000000e+00	0
##	CSI023	0	0	0.000000e+00	2.041025e-05	0.000000e+00	0
##	CSI034	0	0	1.136945e-04	1.894908e-05	0.000000e+00	0
##	CSI045	0	0	0.000000e+00	0.000000e+00	0.000000e+00	0
##	CSI056	0	0	0.000000e+00	0.000000e+00	0.000000e+00	0
##	CSI066	0	0	0.000000e+00	0.000000e+00	1.916847e-05	0
##		0tu03010	0tu03011	0tu03012	0tu03013	0tu03014	0tu03015
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI013	6.391614e-05	0	0	0	0.000000e+00	0
##	CSI023	4.082049e-05	0	0	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	0	0	1.894908e-05	0
##	CSI045	0.000000e+00	0	0	0	6.530186e-05	0
##	CSI056	0.000000e+00	0	0	0	5.094144e-04	0
##	CSI066	0.000000e+00	0	0	0	5.750542e-05	0
##		0tu03016	0tu03017	0tu03018	0tu03019	0tu03020	0tu03021
##	CSI002	0	8.173162e-05	0	0.000000e+00	2.724387e-05	0
##	CSI013	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	2.041025e-05	0
##	CSI034	0	1.894908e-05	0	0.000000e+00	1.894908e-05	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0.000000e+00	0	1.959286e-05	0.000000e+00	0
##	CSI066	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##		0tu03022	0tu03023	0tu03024	0tu03025	0tu03026	0tu03027
##	CSI002	0.000000e+00	0.0000000000	0	0	0	0
##	CSI013	0.000000e+00	0.0000000000	0	0	0	0
##	CSI023	0.000000e+00	0.0000000000	0	0	0	0
##	CSI034	0.000000e+00	0.0000000000	0	0	0	0
##	CSI045	0.000000e+00	0.0000000000	0	0	0	0
##	CSI056	2.155215e-04	0.0000000000	0	0	0	0
##	CSI066	0.000000e+00	0.0000000000	0	0	0	0
##		0tu03028	0tu03029	0tu03030	0tu03031	0tu03032	0tu03033
##	CSI002	0	0	2.724387e-05	8.173162e-05	0	2.724387e-05
##	CSI013	0	0	0.000000e+00	3.195807e-05	0	0.000000e+00
##	CSI023	0	0	4.082049e-05	0.000000e+00	0	0.000000e+00
##	CSI034	0	0	0.000000e+00	7.579634e-05	0	1.894908e-05
##	CSI045	0	0	0.000000e+00	0.000000e+00	0	3.265093e-05
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##		0tu03034	0tu03035	0tu03036	0tu03037	0tu03038	0tu03039
##	CSI002	0	6.810968e-05	0	0	0	0
##	CSI013	0	1.917484e-04	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	1.894908e-04	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0

##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu03040	0tu03041	0tu03042	0tu03043	0tu03044	
##	CSI002	0.0000000000	1.362194e-05	0.000000e+00	0.000000e+00		0
##	CSI013	0.0000000000	0.000000e+00	0.000000e+00	0.000000e+00		0
##	CSI023	0.0000000000	0.000000e+00	0.000000e+00	0.000000e+00		0
##	CSI034	0.0000000000	3.789817e-05	0.000000e+00	0.000000e+00		0
##	CSI045	0.0000000000	0.000000e+00	1.959056e-04	0.000000e+00		0
##	CSI056	0.0003722643	1.959286e-05	0.000000e+00	0.000000e+00		0
##	CSI066	0.0000000000	0.000000e+00	0.000000e+00	1.916847e-05		0
##		0tu03045	0tu03046	0tu03047	0tu03048	0tu03049	0tu03050
##	CSI002	0.000000e+00	0	2.043291e-04	0	0	0
##	CSI013	0.000000e+00	0	3.195807e-05	0	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0	1.705418e-04	0	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0
##		0tu03051	0tu03052	0tu03053	0tu03054	0tu03055	0tu03056
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu03058	0tu03059	0tu03060	0tu03061	0tu03062	0tu03063
##	CSI002	0.000000e+00	0	1.362194e-05	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0.000000e+00	0	5.684725e-05	2.652872e-04	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##		0tu03064	0tu03065	0tu03066	0tu03067	0tu03068	0tu03069
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu03071	0tu03072	0tu03073	0tu03074	0tu03075	
##	CSI002	1.362194e-05	1.362194e-05	0	0.000000e+00	0	
##	CSI013	6.391614e-05	0.000000e+00	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI034	0.000000e+00	1.894908e-05	0	0.000000e+00	0	
##	CSI045	6.530186e-05	0.000000e+00	0	6.530186e-05	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0.000000e+00	0	3.833694e-05	0	
##		0tu03076	0tu03077	0tu03078	0tu03079	0tu03080	0tu03081
##	CSI002	0.000000e+00	2.724387e-05	0	0	0	6.810968e-05
##	CSI013	0.000000e+00	2.237065e-04	0	0	0	9.587421e-05
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00
##	CSI034	0.000000e+00	1.136945e-04	0	0	0	1.894908e-04

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## CSI045 0.000000e+00 0.000000e+00 0 0 0 0.000000e+00
## CSI056 1.959286e-05 0.000000e+00 0 0 0 0.000000e+00
## CSI066 0.000000e+00 3.833694e-05 0 0 0 0.000000e+00
##      0tu03082 0tu03083      0tu03084 0tu03085 0tu03086 0tu03087
## CSI002 0.000000e+00 0 1.362194e-05 0 0 0
## CSI013 0.000000e+00 0 0.000000e+00 0 0 0
## CSI023 0.000000e+00 0 0.000000e+00 0 0 0
## CSI034 0.000000e+00 0 5.684725e-05 0 0 0
## CSI045 6.530186e-05 0 0.000000e+00 0 0 0
## CSI056 0.000000e+00 0 0.000000e+00 0 0 0
## CSI066 3.833694e-05 0 0.000000e+00 0 0 0
##      0tu03088      0tu03089 0tu03090 0tu03091      0tu03092 0tu03093
## CSI002 0 0.000000e+00 0 0 0.000000e+00 0
## CSI013 0 2.237065e-04 0 0 0.000000e+00 0
## CSI023 0 0.000000e+00 0 0 6.123074e-05 0
## CSI034 0 1.894908e-05 0 0 3.789817e-05 0
## CSI045 0 3.265093e-05 0 0 0.000000e+00 0
## CSI056 0 0.000000e+00 0 0 0.000000e+00 0
## CSI066 0 0.000000e+00 0 0 0.000000e+00 0
##      0tu03094      0tu03095 0tu03096 0tu03097 0tu03098      0tu03099
## CSI002 0 0.000000e+00 0 0 0 0.000000e+00
## CSI013 0 0.000000e+00 0 0 0 0.000000e+00
## CSI023 0 0.000000e+00 0 0 0 0.000000e+00
## CSI034 0 0.000000e+00 0 0 0 1.894908e-05
## CSI045 0 0.000000e+00 0 0 0 0.000000e+00
## CSI056 0 0.000000e+00 0 0 0 0.000000e+00
## CSI066 0 1.916847e-05 0 0 0 0.000000e+00
##      0tu03100 0tu03101      0tu03102 0tu03103      0tu03104 0tu03105
## CSI002 0.000000e+00 0 0.000000e+00 0 1.362194e-05 0
## CSI013 0.000000e+00 0 0.000000e+00 0 0.000000e+00 0
## CSI023 0.000000e+00 0 0.000000e+00 0 0.000000e+00 0
## CSI034 0.000000e+00 0 0.000000e+00 0 1.136945e-04 0
## CSI045 0.000000e+00 0 0.000000e+00 0 0.000000e+00 0
## CSI056 0.000000e+00 0 0.000000e+00 0 0.000000e+00 0
## CSI066 1.916847e-05 0 1.916847e-05 0 0.000000e+00 0
##      0tu03106 0tu03107      0tu03108 0tu03109      0tu03110 0tu03111
## CSI002 0 0 9.535356e-05 0.000000e+00 0.000000e+00 0
## CSI013 0 0 6.391614e-05 0.000000e+00 0.000000e+00 0
## CSI023 0 0 2.041025e-05 0.000000e+00 0.000000e+00 0
## CSI034 0 0 0.000000e+00 0.000000e+00 1.894908e-05 0
## CSI045 0 0 0.000000e+00 0.000000e+00 0.000000e+00 0
## CSI056 0 0 0.000000e+00 5.877858e-05 1.959286e-05 0
## CSI066 0 0 0.000000e+00 0.000000e+00 0.000000e+00 0
##      0tu03112 0tu03113      0tu03114 0tu03115 0tu03116 0tu03117
## CSI002 0.000000e+00 0 5.448775e-05 0 0 0
## CSI013 0.000000e+00 0 3.195807e-05 0 0 0
## CSI023 0.000000e+00 0 0.000000e+00 0 0 0
## CSI034 0.000000e+00 0 3.221344e-04 0 0 0
## CSI045 1.306037e-04 0 0.000000e+00 0 0 0
## CSI056 1.959286e-05 0 0.000000e+00 0 0 0
## CSI066 1.150108e-04 0 0.000000e+00 0 0 0
##      0tu03118 0tu03119      0tu03120      0tu03121 0tu03122
## CSI002 1.362194e-05 0.000000e+00 0.000000e+00 4.086581e-05 0
## CSI013 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0

```



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## CSI023 0.000000e+00 0.000000e+00 0.000000e+00 2.041025e-05 0
## CSI034 1.894908e-05 0.000000e+00 5.684725e-05 1.136945e-04 0
## CSI045 9.795279e-05 3.265093e-05 3.265093e-05 0.000000e+00 0
## CSI056 0.000000e+00 3.918572e-05 3.918572e-05 0.000000e+00 0
## CSI066 0.000000e+00 9.584236e-05 5.750542e-05 0.000000e+00 0
##      0tu03123 0tu03124      0tu03125      0tu03126 0tu03127 0tu03128
## CSI002      0      0 0.000000e+00 1.362194e-05      0      0
## CSI013      0      0 0.000000e+00 0.000000e+00      0      0
## CSI023      0      0 0.000000e+00 0.000000e+00      0      0
## CSI034      0      0 0.000000e+00 1.894908e-05      0      0
## CSI045      0      0 0.000000e+00 0.000000e+00      0      0
## CSI056      0      0 0.000000e+00 1.959286e-05      0      0
## CSI066      0      0 0.000000e+00 0.000000e+00      0      0
##      0tu03129      0tu03130      0tu03131 0tu03132      0tu03133 0tu03134
## CSI002      0 0.000000e+00 4.086581e-05      0 0.000000e+00      0
## CSI013      0 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI023      0 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI034      0 0.000000e+00 3.789817e-05      0 3.789817e-05      0
## CSI045      0 3.265093e-05 0.000000e+00      0 0.000000e+00      0
## CSI056      0 0.000000e+00 0.000000e+00      0 5.877858e-05      0
## CSI066      0 1.725162e-04 0.000000e+00      0 0.000000e+00      0
##      0tu03135      0tu03136      0tu03137 0tu03138 0tu03139      0tu03140
## CSI002      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI013      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI023      0 0.000000e+00 0.000000e+00      0      0 2.041025e-05
## CSI034      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI045      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI056      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI066      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
##      0tu03141 0tu03142 0tu03143 0tu03144 0tu03145      0tu03146
## CSI002 0.000000e+00      0      0      0      0 0.000000e+00
## CSI013 0.000000e+00      0      0      0      0 3.195807e-05
## CSI023 0.000000e+00      0      0      0      0 0.000000e+00
## CSI034 0.000000e+00      0      0      0      0 0.000000e+00
## CSI045 0.000000e+00      0      0      0      0 0.000000e+00
## CSI056 0.000000e+00      0      0      0      0 0.000000e+00
## CSI066 0.000000e+00      0      0      0      0 0.000000e+00
##      0tu03147 0tu03148      0tu03149 0tu03150 0tu03151 0tu03152
## CSI002 0.000000e+00      0 0.0000000000      0      0      0
## CSI013 0.000000e+00      0 0.0000000000      0      0      0
## CSI023 0.000000e+00      0 0.0000000000      0      0      0
## CSI034 5.684725e-05      0 0.0000000000      0      0      0
## CSI045 0.000000e+00      0 0.0001632546      0      0      0
## CSI056 3.918572e-05      0 0.0000000000      0      0      0
## CSI066 0.000000e+00      0 0.0000000000      0      0      0
##      0tu03153 0tu03154 0tu03155      0tu03156 0tu03157 0tu03158
## CSI002 0.000000e+00      0      0 0.000000e+00      0      0
## CSI013 0.000000e+00      0      0 0.000000e+00      0      0
## CSI023 0.000000e+00      0      0 0.000000e+00      0      0
## CSI034 0.000000e+00      0      0 0.000000e+00      0      0
## CSI045 0.000000e+00      0      0 0.000000e+00      0      0
## CSI056 3.918572e-05      0      0 3.918572e-05      0      0
## CSI066 1.916847e-05      0      0 0.000000e+00      0      0
##      0tu03159 0tu03160 0tu03161      0tu03162      0tu03163 0tu03164

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##	CSI002	0	0	0	0.000000000	0.000000e+00	0	
##	CSI013	0	0	0	0.000000000	0.000000e+00	0	
##	CSI023	0	0	0	0.000000000	0.000000e+00	0	
##	CSI034	0	0	0	0.000000000	0.000000e+00	0	
##	CSI045	0	0	0	0.000000000	3.265093e-05	0	
##	CSI056	0	0	0	0.000000000	0.000000e+00	0	
##	CSI066	0	0	0	0.000651728	1.916847e-05	0	
##		0tu03165	0tu03166	0tu03167	0tu03168	0tu03169	0tu03170	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI066	1.916847e-05	0.000000e+00	0	0	0	0	
##		0tu03171	0tu03172	0tu03173	0tu03174	0tu03175	0tu03176	0tu03177
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	3.195807e-05	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	3.265093e-05	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu03178	0tu03179	0tu03180	0tu03181	0tu03182	0tu03183	
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI034	1.894908e-05	0	0	0.000000e+00	0	0	
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0	
##		0tu03184	0tu03185	0tu03186	0tu03187	0tu03188	0tu03189	0tu03190
##	CSI002	0	0	0	0	0	0.000000000	0
##	CSI013	0	0	0	0	0	0.000000000	0
##	CSI023	0	0	0	0	0	0.000000000	0
##	CSI034	0	0	0	0	0	0.000000000	0
##	CSI045	0	0	0	0	0	0.0001959056	0
##	CSI056	0	0	0	0	0	0.000000000	0
##	CSI066	0	0	0	0	0	0.000000000	0
##		0tu03191	0tu03192	0tu03193	0tu03194	0tu03195	0tu03196	0tu03197
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	3.918572e-05	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu03198	0tu03199	0tu03200	0tu03201	0tu03202	0tu03203	
##	CSI002	0	0.000000000	0.000000e+00	0	0.000000e+00	0	
##	CSI013	0	0.000000000	0.000000e+00	0	3.195807e-05	0	
##	CSI023	0	0.000000000	0.000000e+00	0	0.000000e+00	0	
##	CSI034	0	0.000000000	0.000000e+00	0	3.789817e-05	0	
##	CSI045	0	0.000000000	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0	0.000000000	0.000000e+00	0	0.000000e+00	0	

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## CSI066      0 0.0000000000 0.000000e+00      0 0.000000e+00      0
##      0tu03204 0tu03205 0tu03206      0tu03207      0tu03208 0tu03209
## CSI002      0      0      0 1.362194e-05 5.448775e-05      0
## CSI013      0      0      0 0.000000e+00 0.000000e+00      0
## CSI023      0      0      0 0.000000e+00 0.000000e+00      0
## CSI034      0      0      0 0.000000e+00 2.273890e-04      0
## CSI045      0      0      0 0.000000e+00 0.000000e+00      0
## CSI056      0      0      0 0.000000e+00 1.959286e-05      0
## CSI066      0      0      0 0.000000e+00 0.000000e+00      0
##      0tu03210      0tu03211 0tu03212      0tu03213 0tu03214 0tu03215
## CSI002 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI013 0.000000e+00 9.587421e-05      0 0.000000e+00      0      0
## CSI023 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI034 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI045 1.959056e-04 0.000000e+00      0 0.000000e+00      0      0
## CSI056 1.959286e-05 0.000000e+00      0 4.114501e-04      0      0
## CSI066 0.000000e+00 5.750542e-05      0 1.916847e-05      0      0
##      0tu03216 0tu03217 0tu03218 0tu03219      0tu03220      0tu03221
## CSI002      0      0      0      0 0.0000000000 0.000000e+00
## CSI013      0      0      0      0 0.0000000000 6.391614e-05
## CSI023      0      0      0      0 0.0000000000 0.000000e+00
## CSI034      0      0      0      0 0.0000000000 0.000000e+00
## CSI045      0      0      0      0 0.0000000000 0.000000e+00
## CSI056      0      0      0      0 0.0000000000 0.000000e+00
## CSI066      0      0      0      0 0.0000000000 0.000000e+00
##      0tu03222      0tu03223      0tu03224 0tu03225      0tu03226 0tu03227
## CSI002      0 6.810968e-05 0.0000000000      0 0.000000e+00      0
## CSI013      0 0.000000e+00 0.0000000000      0 0.000000e+00      0
## CSI023      0 0.000000e+00 0.0000000000      0 0.000000e+00      0
## CSI034      0 9.474542e-05 0.0000000000      0 0.000000e+00      0
## CSI045      0 0.000000e+00 0.001436641      0 0.000000e+00      0
## CSI056      0 0.000000e+00 0.0000000000      0 0.000000e+00      0
## CSI066      0 0.000000e+00 0.0000000000      0 5.750542e-05      0
##      0tu03228 0tu03229      0tu03230 0tu03231 0tu03232 0tu03233
## CSI002      0      0 4.086581e-05      0      0      0
## CSI013      0      0 0.000000e+00      0      0      0
## CSI023      0      0 0.000000e+00      0      0      0
## CSI034      0      0 0.000000e+00      0      0      0
## CSI045      0      0 0.000000e+00      0      0      0
## CSI056      0      0 0.000000e+00      0      0      0
## CSI066      0      0 0.000000e+00      0      0      0
##      0tu03234 0tu03235 0tu03236      0tu03237 0tu03238      0tu03239
## CSI002 0.000000e+00      0      0 0.000000e+00      0 4.086581e-05
## CSI013 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI023 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI034 0.000000e+00      0      0 0.000000e+00      0 6.632179e-04
## CSI045 3.265093e-05      0      0 0.000000e+00      0 0.000000e+00
## CSI056 0.000000e+00      0      0 1.959286e-05      0 0.000000e+00
## CSI066 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
##      0tu03240 0tu03241 0tu03242 0tu03243 0tu03244 0tu03245      0tu03246
## CSI002      0      0      0      0      0      0 0.000000e+00
## CSI013      0      0      0      0      0      0 0.000000e+00
## CSI023      0      0      0      0      0      0 0.000000e+00
## CSI034      0      0      0      0      0      0 1.894908e-05

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##	CSI045	0	0	0	0	0	0 0.000000e+00
##	CSI056	0	0	0	0	0	0 0.000000e+00
##	CSI066	0	0	0	0	0	0 0.000000e+00
##		0tu03247	0tu03248	0tu03249	0tu03250	0tu03251	0tu03252
##	CSI002	0	0	0	0	0 0.000000e+00	1.362194e-05
##	CSI013	0	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI023	0	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI034	0	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI045	0	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI056	0	0	0	0	0 0.000000e+00	0.000000e+00
##	CSI066	0	0	0	0	0 0.000000e+00	0.000000e+00
##		0tu03253	0tu03254	0tu03255	0tu03256	0tu03257	0tu03258
##	CSI002	0	0	0	0	2.724387e-05	0
##	CSI013	0	0	0	0	0 0.000000e+00	0
##	CSI023	0	0	0	0	0 0.000000e+00	0
##	CSI034	0	0	0	0	1.894908e-05	0
##	CSI045	0	0	0	0	0 0.000000e+00	0
##	CSI056	0	0	0	0	0 0.000000e+00	0
##	CSI066	0	0	0	0	0 0.000000e+00	0
##		0tu03259	0tu03260	0tu03261	0tu03262	0tu03263	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0 0.000000e+00	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0 0.000000e+00	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0 0.000000e+00	
##	CSI034	1.894908e-05	0.000000e+00	0	0	1.894908e-05	
##	CSI045	0.000000e+00	3.265093e-05	0	0	0 0.000000e+00	
##	CSI056	0.000000e+00	0.000000e+00	0	0	1.959286e-05	
##	CSI066	5.750542e-05	0.000000e+00	0	0	0 0.000000e+00	
##		0tu03264	0tu03265	0tu03266	0tu03267	0tu03268	
##	CSI002	0.000000e+00	0.000000e+00	0	0.000000e+00	0.0000000000	
##	CSI013	0.000000e+00	0.000000e+00	0	0.000000e+00	0.0000000000	
##	CSI023	0.000000e+00	0.000000e+00	0	8.164098e-05	0.0000000000	
##	CSI034	0.000000e+00	0.000000e+00	0	0.000000e+00	0.0000000000	
##	CSI045	0.000000e+00	6.530186e-05	0	0.000000e+00	0.0000000000	
##	CSI056	0.000000e+00	9.796430e-05	0	0.000000e+00	0.0000000000	
##	CSI066	0.000000e+00	0.000000e+00	0	5.750542e-05	0.0000000000	
##		0tu03269	0tu03270	0tu03271	0tu03272	0tu03273	0tu03274
##	CSI002	0	0	0	0	0.000000e+00	0.0001089755
##	CSI013	0	0	0	0	0.000000e+00	0.0000000000
##	CSI023	0	0	0	0	0.000000e+00	0.0000000000
##	CSI034	0	0	0	0	0.000000e+00	0.0000000000
##	CSI045	0	0	0	0	0.000000e+00	0.0000000000
##	CSI056	0	0	0	0	0.000000e+00	0.0000000000
##	CSI066	0	0	0	0	1.341793e-04	0.0000000000
##		0tu03275	0tu03276	0tu03277	0tu03278	0tu03279	0tu03280
##	CSI002	0	0.000000e+00	0.000000e+00	0	0	0 0.000000e+00
##	CSI013	0	0.000000e+00	0.000000e+00	0	0	9.587421e-05
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0 0.000000e+00
##	CSI034	0	0.000000e+00	0.000000e+00	0	0	1.705418e-04
##	CSI045	0	1.306037e-04	0.000000e+00	0	0	0 0.000000e+00
##	CSI056	0	7.837144e-05	1.959286e-05	0	0	0 0.000000e+00
##	CSI066	0	7.667389e-05	7.667389e-05	0	0	1.916847e-05
##		0tu03281	0tu03282	0tu03283	0tu03284	0tu03285	0tu03286
##	CSI002	0	1.362194e-05	0	0	0 0.000000e+00	0
##	CSI013	0	0.000000e+00	0	0	0 0.000000e+00	0

##	CSI023	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	0	7.579634e-05	0	0	1.894908e-05	0
##	CSI045	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI056	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI066	0	0.000000e+00	0	0	0.000000e+00	0
##		0tu03287	0tu03288	0tu03289	0tu03290	0tu03291	0tu03292
##	CSI002	2.724387e-05	0.000000e+00	0.000000e+00	0	0	0
##	CSI013	6.391614e-05	0.000000e+00	0.000000e+00	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI034	1.894908e-05	0.000000e+00	0.000000e+00	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0.000000e+00	7.837144e-05	0	0	0
##	CSI066	0.000000e+00	5.750542e-05	0.000000e+00	0	0	0
##		0tu03293	0tu03294	0tu03295	0tu03296	0tu03297	0tu03298
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu03300	0tu03301	0tu03302	0tu03303	0tu03304	0tu03305
##	CSI002	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI013	0	3.195807e-05	0	0.000000e+00	0	0.000000e+00
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI034	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI045	0	0.000000e+00	0	6.530186e-05	0	0.000000e+00
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI066	0	0.000000e+00	0	3.833694e-05	0	0.000000e+00
##		0tu03306	0tu03307	0tu03308	0tu03309	0tu03310	0tu03311
##	CSI002	0	0	0	5.448775e-05	0	0.000000e+00
##	CSI013	0	0	0	2.237065e-04	0	0.000000e+00
##	CSI023	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI034	0	0	0	2.273890e-04	0	0.000000e+00
##	CSI045	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI056	0	0	0	0.000000e+00	0	3.918572e-05
##	CSI066	0	0	0	0.000000e+00	0	0.000000e+00
##		0tu03312	0tu03313	0tu03314	0tu03315	0tu03316	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI013	0.000000e+00	3.195807e-05	0	0	0.000000e+00	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI034	0.000000e+00	1.894908e-05	0	0	0.000000e+00	
##	CSI045	3.265093e-05	0.000000e+00	0	0	1.632546e-04	
##	CSI056	1.959286e-05	0.000000e+00	0	0	5.877858e-05	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##		0tu03317	0tu03318	0tu03319	0tu03320	0tu03321	
##	CSI002	0.000000e+00	1.362194e-05	0	0.000000e+00	0.000000e+00	
##	CSI013	0.000000e+00	3.195807e-05	0	1.917484e-04	6.391614e-05	
##	CSI023	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI034	3.789817e-05	1.894908e-05	0	1.515927e-04	0.000000e+00	
##	CSI045	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI056	3.918572e-05	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI066	1.916847e-05	0.000000e+00	0	0.000000e+00	0.000000e+00	
##		0tu03322	0tu03323	0tu03324	0tu03325	0tu03326	0tu03327
##							0tu03328

##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu03329	0tu03330	0tu03331	0tu03332	0tu03333	0tu03334
##	CSI002	0	0	0.000000e+00	0	0.0000000000	2.451949e-04
##	CSI013	0	0	0.000000e+00	0	0.0000000000	0.000000e+00
##	CSI023	0	0	0.000000e+00	0	0.0000000000	0.000000e+00
##	CSI034	0	0	0.000000e+00	0	0.0000000000	0.000000e+00
##	CSI045	0	0	1.632546e-04	0	0.0000000000	0.000000e+00
##	CSI056	0	0	0.000000e+00	0	0.0000000000	5.877858e-05
##	CSI066	0	0	0.000000e+00	0	0.0000000000	0.000000e+00
##		0tu03335	0tu03336	0tu03337	0tu03338	0tu03339	0tu03340
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu03342	0tu03343	0tu03344	0tu03345	0tu03346	0tu03347
##	CSI002	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	2.612074e-04	0
##	CSI056	0	0	0	0	1.959286e-05	0
##	CSI066	0	0	0	0	0.000000e+00	0
##		0tu03349	0tu03350	0tu03351	0tu03352	0tu03353	0tu03354
##	CSI002	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI013	0.000000e+00	0	0.000000e+00	0	6.391614e-05	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	0.000000e+00	0	3.789817e-05	0
##	CSI045	0.000000e+00	0	3.265093e-05	0	0.000000e+00	0
##	CSI056	1.959286e-05	0	5.877858e-05	0	0.000000e+00	0
##	CSI066	0.000000e+00	0	1.916847e-05	0	0.000000e+00	0
##		0tu03355	0tu03356	0tu03357	0tu03358	0tu03359	0tu03360
##	CSI002	0	2.724387e-05	0	1.362194e-05	0	0
##	CSI013	0	0.000000e+00	0	3.195807e-05	0	0
##	CSI023	0	2.041025e-05	0	2.041025e-05	0	0
##	CSI034	0	9.474542e-05	0	5.684725e-05	0	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI066	0	0.000000e+00	0	0.000000e+00	0	0
##		0tu03361	0tu03362	0tu03363	0tu03364	0tu03365	0tu03366
##	CSI002	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI013	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI034	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI045	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI056	1.959286e-05	0	0	0.000000e+00	0.000000e+00	0

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## CSI066 0.000000e+00      0      0 1.916847e-05 9.584236e-05      0
##      0tu03367      0tu03368      0tu03369      0tu03370      0tu03371
## CSI002      0 0.000000e+00 1.362194e-05 0.000000e+00 0.00000000000
## CSI013      0 0.000000e+00 9.587421e-05 1.597904e-04 0.00000000000
## CSI023      0 0.000000e+00 2.041025e-05 0.000000e+00 0.00000000000
## CSI034      0 0.000000e+00 0.000000e+00 3.789817e-05 0.00000000000
## CSI045      0 0.000000e+00 0.000000e+00 0.000000e+00 0.00000000000
## CSI056      0 1.959286e-05 0.000000e+00 1.959286e-05 0.00000000000
## CSI066      0 1.916847e-05 0.000000e+00 0.000000e+00 0.00000000000
##      0tu03372 0tu03373 0tu03374      0tu03375      0tu03376 0tu03377
## CSI002      0      0      0 2.724387e-05 4.086581e-05      0
## CSI013      0      0      0 6.391614e-05 0.000000e+00      0
## CSI023      0      0      0 0.000000e+00 0.000000e+00      0
## CSI034      0      0      0 0.000000e+00 2.273890e-04      0
## CSI045      0      0      0 0.000000e+00 0.000000e+00      0
## CSI056      0      0      0 0.000000e+00 0.000000e+00      0
## CSI066      0      0      0 0.000000e+00 0.000000e+00      0
##      0tu03378      0tu03379      0tu03380      0tu03381      0tu03382
## CSI002      0 0.000000e+00 0.000000e+00 1.362194e-05 0.000000e+00
## CSI013      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI023      0 2.041025e-05 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034      0 0.000000e+00 2.463381e-04 0.000000e+00 0.000000e+00
## CSI045      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI056      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI066      0 0.000000e+00 0.000000e+00 3.833694e-05 5.750542e-05
##      0tu03383      0tu03384 0tu03385 0tu03386 0tu03387 0tu03388
## CSI002      0 2.724387e-05      0      0      0      0
## CSI013      0 0.000000e+00      0      0      0      0
## CSI023      0 0.000000e+00      0      0      0      0
## CSI034      0 0.000000e+00      0      0      0      0
## CSI045      0 0.000000e+00      0      0      0      0
## CSI056      0 0.000000e+00      0      0      0      0
## CSI066      0 0.000000e+00      0      0      0      0
##      0tu03389 0tu03390 0tu03391 0tu03392      0tu03393 0tu03394
## CSI002 0.000000e+00      0      0      0 0.000000e+00      0
## CSI013 0.000000e+00      0      0      0 0.000000e+00      0
## CSI023 0.000000e+00      0      0      0 0.000000e+00      0
## CSI034 0.000000e+00      0      0      0 0.000000e+00      0
## CSI045 6.530186e-05      0      0      0 0.000000e+00      0
## CSI056 1.175572e-04      0      0      0 0.000000e+00      0
## CSI066 3.833694e-05      0      0      0 7.667389e-05      0
##      0tu03395 0tu03396      0tu03397 0tu03398 0tu03399      0tu03400
## CSI002      0      0 0.000000e+00      0      0 0.000000e+00
## CSI013      0      0 0.000000e+00      0      0 0.000000e+00
## CSI023      0      0 0.000000e+00      0      0 0.000000e+00
## CSI034      0      0 0.000000e+00      0      0 1.894908e-05
## CSI045      0      0 0.000000e+00      0      0 5.877167e-04
## CSI056      0      0 1.959286e-05      0      0 0.000000e+00
## CSI066      0      0 0.000000e+00      0      0 1.916847e-05
##      0tu03401 0tu03402 0tu03403 0tu03404 0tu03405 0tu03406 0tu03407
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0

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## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##          0tu03408 0tu03409      0tu03410      0tu03411      0tu03412
## CSI002 0.000000e+00      0 0.000000e+00 1.362194e-05 0.0000000000
## CSI013 0.000000e+00      0 0.000000e+00 0.000000e+00 0.0000000000
## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00 0.0000000000
## CSI034 1.894908e-05      0 1.894908e-05 9.474542e-05 0.0000000000
## CSI045 6.530186e-05      0 0.000000e+00 0.000000e+00 0.0000000000
## CSI056 0.000000e+00      0 0.000000e+00 1.959286e-05 0.0000000000
## CSI066 0.000000e+00      0 0.000000e+00 0.000000e+00 0.0000000000
##          0tu03413 0tu03414      0tu03415 0tu03416      0tu03417 0tu03418
## CSI002      0      0 5.448775e-05      0 0.0000000000      0
## CSI013      0      0 0.000000e+00      0 0.0000000000      0
## CSI023      0      0 0.000000e+00      0 0.0000000000      0
## CSI034      0      0 7.579634e-05      0 0.0000000000      0
## CSI045      0      0 0.000000e+00      0 0.0000000000      0
## CSI056      0      0 0.000000e+00      0 0.0001567429      0
## CSI066      0      0 0.000000e+00      0 0.0000000000      0
##          0tu03419 0tu03420 0tu03421 0tu03422 0tu03423      0tu03424 0tu03425
## CSI002      0      0      0      0      0 9.535356e-05      0
## CSI013      0      0      0      0      0 3.195807e-05      0
## CSI023      0      0      0      0      0 0.000000e+00      0
## CSI034      0      0      0      0      0 0.000000e+00      0
## CSI045      0      0      0      0      0 0.000000e+00      0
## CSI056      0      0      0      0      0 0.000000e+00      0
## CSI066      0      0      0      0      0 0.000000e+00      0
##          0tu03426 0tu03427 0tu03428 0tu03429 0tu03430 0tu03431 0tu03432
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 1.894908e-05      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##          0tu03433 0tu03434 0tu03435      0tu03436      0tu03437      0tu03438
## CSI002      0      0      0 0.000000e+00 1.362194e-05 1.362194e-05
## CSI013      0      0      0 0.000000e+00 0.000000e+00 6.391614e-05
## CSI023      0      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034      0      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI045      0      0      0 0.000000e+00 6.530186e-05 0.000000e+00
## CSI056      0      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI066      0      0      0 7.667389e-05 1.341793e-04 0.000000e+00
##          0tu03439 0tu03440 0tu03441 0tu03442 0tu03443 0tu03444
## CSI002 0.000000e+00      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0
## CSI056 3.722643e-04      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0
##          0tu03445 0tu03446      0tu03447      0tu03448      0tu03449
## CSI002 1.362194e-05      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI013 2.237065e-04      0 0.000000e+00 0.000000e+00 6.391614e-05

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## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034 1.326436e-04      0 0.000000e+00 0.000000e+00 3.789817e-05
## CSI045 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI066 0.000000e+00      0 1.916847e-05 9.584236e-05 0.000000e+00
##      0tu03450 0tu03451 0tu03452      0tu03453 0tu03454      0tu03455
## CSI002 0.000000e+00      0      0 6.810968e-05      0 2.724387e-05
## CSI013 0.000000e+00      0      0 3.195807e-05      0 6.391614e-05
## CSI023 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI034 0.000000e+00      0      0 7.579634e-05      0 0.000000e+00
## CSI045 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI056 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI066 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
##      0tu03456 0tu03457 0tu03458 0tu03459 0tu03460      0tu03461
## CSI002 0.000000e+00      0      0      0      0 0.000000e+00
## CSI013 0.000000e+00      0      0      0      0 0.000000e+00
## CSI023 0.000000e+00      0      0      0      0 0.000000e+00
## CSI034 0.000000e+00      0      0      0      0 0.000000e+00
## CSI045 3.265093e-05      0      0      0      0 0.000000e+00
## CSI056 0.000000e+00      0      0      0      0 0.000000e+00
## CSI066 0.000000e+00      0      0      0      0 0.000000e+00
##      0tu03462      0tu03463 0tu03464 0tu03465      0tu03466 0tu03467
## CSI002 0.000000e+00 0.00000000000      0      0 0.00000000000      0
## CSI013 6.391614e-05 0.00000000000      0      0 0.00000000000      0
## CSI023 0.000000e+00 0.00000000000      0      0 0.00000000000      0
## CSI034 1.326436e-04 0.00000000000      0      0 0.00000000000      0
## CSI045 0.000000e+00 0.00000000000      0      0 0.0006530186      0
## CSI056 0.000000e+00 0.00000000000      0      0 0.00000000000      0
## CSI066 0.000000e+00 0.0008625812      0      0 0.00000000000      0
##      0tu03468 0tu03469 0tu03470      0tu03471      0tu03472 0tu03473
## CSI002      0      0      0 0.000000e+00 4.086581e-05      0
## CSI013      0      0      0 6.391614e-05 3.195807e-05      0
## CSI023      0      0      0 4.082049e-05 0.000000e+00      0
## CSI034      0      0      0 0.000000e+00 1.894908e-05      0
## CSI045      0      0      0 0.000000e+00 0.000000e+00      0
## CSI056      0      0      0 0.000000e+00 0.000000e+00      0
## CSI066      0      0      0 0.000000e+00 0.000000e+00      0
##      0tu03474 0tu03475      0tu03476      0tu03477 0tu03478 0tu03479
## CSI002 2.724387e-05      0 0.000000e+00 0.000000e+00      0      0
## CSI013 3.195807e-05      0 0.000000e+00 0.000000e+00      0      0
## CSI023 0.000000e+00      0 0.000000e+00 8.164098e-05      0      0
## CSI034 9.474542e-05      0 3.789817e-05 1.515927e-04      0      0
## CSI045 0.000000e+00      0 6.530186e-05 0.000000e+00      0      0
## CSI056 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI066 0.000000e+00      0 1.916847e-05 0.000000e+00      0      0
##      0tu03480      0tu03481 0tu03482 0tu03483 0tu03484 0tu03485 0tu03486
## CSI002      0 0.000000e+00      0      0      0      0      0
## CSI013      0 0.000000e+00      0      0      0      0      0
## CSI023      0 0.000000e+00      0      0      0      0      0
## CSI034      0 5.684725e-05      0      0      0      0      0
## CSI045      0 0.000000e+00      0      0      0      0      0
## CSI056      0 0.000000e+00      0      0      0      0      0
## CSI066      0 0.000000e+00      0      0      0      0      0
##      0tu03487      0tu03488 0tu03489 0tu03490 0tu03491 0tu03492

```

##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	1.632546e-04	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	1.916847e-05	0	0	0	0
##		0tu03493	0tu03494	0tu03495	0tu03496	0tu03497	0tu03498
##	CSI002	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI013	0.000000e+00	0.000000e+00	0	0	3.195807e-05	0
##	CSI023	2.041025e-05	2.041025e-05	0	0	0.000000e+00	0
##	CSI034	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	1.916847e-05	0
##		0tu03499	0tu03500	0tu03501	0tu03502	0tu03503	0tu03504
##	CSI002	4.086581e-05	0	0.000000e+00	0	6.810968e-05	0
##	CSI013	3.195807e-05	0	3.195807e-05	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI034	2.273890e-04	0	0.000000e+00	0	5.684725e-05	0
##	CSI045	3.265093e-05	0	0.000000e+00	0	0.000000e+00	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##		0tu03505	0tu03506	0tu03507	0tu03508	0tu03509	0tu03510
##	CSI002	0.000000e+00	0	0	1.362194e-05	0	0.000000e+00
##	CSI013	0.000000e+00	0	0	6.391614e-05	0	0.000000e+00
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI034	0.000000e+00	0	0	3.789817e-05	0	7.579634e-05
##	CSI045	0.000000e+00	0	0	3.265093e-05	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI066	3.833694e-05	0	0	0.000000e+00	0	0.000000e+00
##		0tu03511	0tu03512	0tu03513	0tu03514	0tu03515	0tu03516
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0.0000000000
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0.0004474130
##	CSI023	4.082049e-05	0	0	0.000000e+00	0	0.0000000000
##	CSI034	0.000000e+00	0	0	0.000000e+00	0	0.0000000000
##	CSI045	1.306037e-04	0	0	0.000000e+00	0	0.0000000000
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0.0000000000
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0.0000000000
##		0tu03517	0tu03518	0tu03519	0tu03520	0tu03521	0tu03522
##	CSI002	0	4.086581e-05	5.448775e-05	0	0	0.000000e+00
##	CSI013	0	0.000000e+00	3.195807e-05	0	0	0.000000e+00
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	4.082049e-05
##	CSI034	0	0.000000e+00	5.684725e-05	0	0	0.000000e+00
##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI056	0	1.175572e-04	3.918572e-05	0	0	1.959286e-05
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##		0tu03523	0tu03524	0tu03525	0tu03526	0tu03527	0tu03528
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	3.918572e-05	0	0	0	0

##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu03529	0tu03530	0tu03531	0tu03532	0tu03533	0tu03534
##	CSI002	0.000000e+00	0.0000000000	0	0.000000e+00	0	0
##	CSI013	0.000000e+00	0.0000000000	0	0.000000e+00	0	0
##	CSI023	0.000000e+00	0.0000000000	0	0.000000e+00	0	0
##	CSI034	0.000000e+00	0.0000000000	0	5.684725e-05	0	0
##	CSI045	0.000000e+00	0.0000000000	0	0.000000e+00	0	0
##	CSI056	7.837144e-05	0.0000000000	0	0.000000e+00	0	0
##	CSI066	0.000000e+00	0.0000000000	0	0.000000e+00	0	0
##		0tu03535	0tu03536	0tu03537	0tu03538	0tu03539	0tu03540
##	CSI002	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI013	0.000000e+00	0	0	0	0	6.391614e-05
##	CSI023	2.041025e-05	0	0	0	0	0.000000e+00
##	CSI034	7.579634e-05	0	0	0	0	0.000000e+00
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu03541	0tu03542	0tu03543	0tu03544	0tu03545	0tu03546
##	CSI002	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0.000000e+00	0
##		0tu03548	0tu03549	0tu03550	0tu03551	0tu03552	0tu03553
##	CSI002	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI013	0	0.000000e+00	1.597904e-04	0	0	0
##	CSI023	0	0.000000e+00	2.041025e-05	0	0	0
##	CSI034	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI045	0	2.285565e-04	0.000000e+00	0	0	0
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI066	0	3.833694e-05	1.916847e-05	0	0	0
##		0tu03554	0tu03555	0tu03556	0tu03557	0tu03558	0tu03559
##	CSI002	0	0.000000e+00	0.000000e+00	4.086581e-05	0	0
##	CSI013	0	3.195807e-05	3.195807e-05	6.391614e-05	0	0
##	CSI023	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI034	0	3.789817e-05	1.894908e-05	7.579634e-05	0	0
##	CSI045	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI056	0	0.000000e+00	3.918572e-05	0.000000e+00	0	0
##	CSI066	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##		0tu03560	0tu03561	0tu03562	0tu03563	0tu03564	
##	CSI002	0	0	0.000000e+00	0.0000000000	1.362194e-05	
##	CSI013	0	0	0.000000e+00	0.0000000000	0.000000e+00	
##	CSI023	0	0	0.000000e+00	0.0000000000	0.000000e+00	
##	CSI034	0	0	7.579634e-05	0.0005116253	1.136945e-04	
##	CSI045	0	0	0.000000e+00	0.0000000000	0.000000e+00	
##	CSI056	0	0	0.000000e+00	0.0000000000	0.000000e+00	
##	CSI066	0	0	0.000000e+00	0.0000000000	0.000000e+00	
##		0tu03565	0tu03566	0tu03567	0tu03568	0tu03569	0tu03570
##	CSI002	2.724387e-05	0.000000e+00	0	0	0	0
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI023	0.000000e+00	6.123074e-05	0	0	0	0
##	CSI034	1.326436e-04	5.684725e-05	0	0	0	0

##	CSI045	0.000000e+00	4.244621e-04	0	0	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu03571	0tu03572	0tu03573	0tu03574	0tu03575	0tu03576
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI045	0.000000e+00	0	0	0	1.306037e-04	0
##	CSI056	1.959286e-05	0	0	0	0.000000e+00	0
##	CSI066	1.916847e-05	0	0	0	0.000000e+00	0
##		0tu03577	0tu03578	0tu03579	0tu03580	0tu03581	0tu03582
##	CSI002	0.000000e+00	0.000000e+00	0.0000000	2.724387e-05	0	0
##	CSI013	0.000000e+00	0.000000e+00	0.0000000	0.000000e+00	0	0
##	CSI023	0.000000e+00	0.000000e+00	0.0000000	0.000000e+00	0	0
##	CSI034	0.000000e+00	0.000000e+00	0.0000000	0.000000e+00	0	0
##	CSI045	0.000000e+00	0.000000e+00	0.0000000	0.000000e+00	0	0
##	CSI056	5.877858e-05	0.000000e+00	0.0000000	0.000000e+00	0	0
##	CSI066	0.000000e+00	1.916847e-05	0.0000000	3.833694e-05	0	0
##		0tu03583	0tu03584	0tu03585	0tu03586	0tu03587	0tu03588
##	CSI002	0	0	0.000000e+00	1.362194e-05	0	0
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI045	0	0	6.530186e-05	0.000000e+00	0	0
##	CSI056	0	0	5.877858e-05	0.000000e+00	0	0
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0
##		0tu03589	0tu03590	0tu03591	0tu03592	0tu03593	0tu03594
##	CSI002	0	1.362194e-05	0	0.000000e+00	2.724387e-05	0
##	CSI013	0	0.000000e+00	0	1.917484e-04	0.000000e+00	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI034	0	0.000000e+00	0	3.789817e-05	1.515927e-04	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI066	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##		0tu03595	0tu03596	0tu03597	0tu03598	0tu03599	0tu03600
##	CSI002	0	0.000000e+00	0.000000e+00	0	0	8.173162e-05
##	CSI013	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI034	0	0.000000e+00	0.000000e+00	0	0	3.789817e-05
##	CSI045	0	3.265093e-05	0.000000e+00	0	0	0.000000e+00
##	CSI056	0	5.877858e-05	0.000000e+00	0	0	1.959286e-05
##	CSI066	0	0.000000e+00	1.916847e-05	0	0	0.000000e+00
##		0tu03601	0tu03602	0tu03603	0tu03604	0tu03605	0tu03606
##	CSI002	6.810968e-05	0	0	1.362194e-05	0	0.0000000000
##	CSI013	0.000000e+00	0	0	9.587421e-05	0	0.0000000000
##	CSI023	0.000000e+00	0	0	4.082049e-05	0	0.0000000000
##	CSI034	1.326436e-04	0	0	1.515927e-04	0	0.0000000000
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0.0000000000
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0.0001175572
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0.0000000000
##		0tu03607	0tu03608	0tu03609	0tu03610	0tu03611	0tu03612
##	CSI002	0	0	0.000000e+00	0.0000000000	0	0
##	CSI013	0	0	0.000000e+00	0.0000000000	0	0

##	CSI023	0	0	0.000000e+00	0.0000000000	0	0
##	CSI034	0	0	0.000000e+00	0.0000000000	0	0
##	CSI045	0	0	0.000000e+00	0.0000000000	0	0
##	CSI056	0	0	5.877858e-05	0.0000000000	0	0
##	CSI066	0	0	0.000000e+00	0.0000000000	0	0
##	0tu03613	0tu03614	0tu03615	0tu03616	0tu03617	0tu03618	
##	CSI002	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI013	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI023	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	0	0.000000e+00	0	0	7.579634e-05	0
##	CSI045	0	0.000000e+00	0	0	3.265093e-05	0
##	CSI056	0	0.000000e+00	0	0	1.959286e-05	0
##	CSI066	0	0.000000e+00	0	0	3.833694e-05	0
##	0tu03619	0tu03620	0tu03621	0tu03622	0tu03623	0tu03624	
##	CSI002	1.362194e-05	0	0	0	0.000000e+00	5.448775e-05
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI034	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	5.877858e-05	0.000000e+00
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	0tu03625	0tu03626	0tu03627	0tu03628	0tu03629	0tu03630	
##	CSI002	2.724387e-05	0	0	0	0	2.724387e-05
##	CSI013	5.113291e-04	0	0	0	0	3.195807e-05
##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI034	1.894908e-05	0	0	0	0	7.579634e-05
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI066	1.916847e-05	0	0	0	0	0.000000e+00
##	0tu03631	0tu03632	0tu03633	0tu03634	0tu03635	0tu03636	
##	CSI002	0.000000e+00	0	2.724387e-05	0	0.000000e+00	0
##	CSI013	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	4.082049e-05	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	0.000000e+00	0	1.894908e-05	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI056	0.000000e+00	0	1.175572e-04	0	0.000000e+00	0
##	CSI066	7.667389e-05	0	0.000000e+00	0	5.750542e-05	0
##	0tu03637	0tu03638	0tu03639	0tu03640	0tu03641	0tu03642	
##	CSI002	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	2.556646e-04	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0
##	0tu03643	0tu03644	0tu03645	0tu03646	0tu03647	0tu03648	0tu03649
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	1.894908e-05	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##	0tu03650	0tu03651	0tu03652	0tu03653	0tu03654	0tu03655	

##	CSI002	0	1.362194e-05	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	7.579634e-05	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu03656	0tu03657	0tu03658	0tu03659	0tu03660	0tu03661
##	CSI002	0.000000e+00	1.362194e-05	0	2.724387e-05	0	0
##	CSI013	0.000000e+00	0.000000e+00	0	6.391614e-05	0	0
##	CSI023	8.164098e-05	0.000000e+00	0	0.000000e+00	0	0
##	CSI034	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	3.265093e-05	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	2.351143e-04	0	0
##	CSI066	3.833694e-05	0.000000e+00	0	0.000000e+00	0	0
##		0tu03662	0tu03663	0tu03664	0tu03665	0tu03666	0tu03667
##	CSI002	2.724387e-05	0	2.724387e-05	0	0.0000000000	0
##	CSI013	0.000000e+00	0	0.000000e+00	0	0.0000000000	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0.0000000000	0
##	CSI034	1.894908e-05	0	1.705418e-04	0	0.0000000000	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0.0000000000	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0.0000000000	0
##	CSI066	1.916847e-05	0	0.000000e+00	0	0.0003450325	0
##		0tu03668	0tu03669	0tu03670	0tu03671	0tu03672	0tu03673
##	CSI002	2.724387e-05	0.000000e+00	0	0	0	0
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	7.579634e-05	0.000000e+00	0	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI056	0.000000e+00	5.094144e-04	0	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu03674	0tu03675	0tu03676	0tu03677	0tu03678	0tu03679
##	CSI002	0.000000e+00	0	0	0	0.0005312555	0
##	CSI013	0.000000e+00	0	0	0	0.0000000000	0
##	CSI023	0.000000e+00	0	0	0	0.0000000000	0
##	CSI034	0.000000e+00	0	0	0	0.0000000000	0
##	CSI045	0.000000e+00	0	0	0	0.0000000000	0
##	CSI056	0.000000e+00	0	0	0	0.0000000000	0
##	CSI066	0.000000e+00	0	0	0	0.0000000000	0
##		0tu03680	0tu03681	0tu03682	0tu03683	0tu03684	
##	CSI002	1.089755e-04	2.724387e-05	0.000000e+00	0.000000e+00		0
##	CSI013	0.000000e+00	2.876226e-04	0.000000e+00	0.000000e+00		0
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		0
##	CSI034	1.894908e-05	1.894908e-05	0.000000e+00	7.579634e-05		0
##	CSI045	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		0
##	CSI056	0.000000e+00	0.000000e+00	3.918572e-05	0.000000e+00		0
##	CSI066	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		0
##		0tu03685	0tu03686	0tu03687	0tu03688	0tu03689	0tu03690
##	CSI002	0.000000e+00	0	2.451949e-04	0	0	1.362194e-05
##	CSI013	3.195807e-05	0	3.195807e-05	0	0	1.917484e-04
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	1.894908e-04	0	0.000000e+00	0	0	5.684725e-05
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00

##	CSI066	0.000000e+00	0	0.000000e+00	0	0	5.750542e-05
##		0tu03691	0tu03692	0tu03693	0tu03694	0tu03695	
##	CSI002	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI013	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI023	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI034	0.000000e+00	2.652872e-04	0	1.894908e-05	7.579634e-05	
##	CSI045	1.306037e-04	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI056	0.000000e+00	1.567429e-04	0	0.000000e+00	0.000000e+00	
##	CSI066	1.916847e-05	0.000000e+00	0	0.000000e+00	0.000000e+00	
##		0tu03696	0tu03697	0tu03698	0tu03699	0tu03700	0tu03701
##	CSI002	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI013	0	0.000000e+00	1.597904e-04	0	0	0
##	CSI023	0	0.000000e+00	2.041025e-05	0	0	0
##	CSI034	0	0.000000e+00	9.474542e-05	0	0	0
##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0
##		0tu03702	0tu03703	0tu03704	0tu03705	0tu03706	0tu03707
##	CSI002	0	0	0	1.362194e-05	0.000000e+00	0
##	CSI013	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI034	0	0	0	1.894908e-05	1.894908e-05	0
##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0	0	0.000000e+00	3.918572e-05	0
##	CSI066	0	0	0	1.916847e-05	5.750542e-05	0
##		0tu03708	0tu03709	0tu03710	0tu03711	0tu03712	0tu03713
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu03715	0tu03716	0tu03717	0tu03718	0tu03719	0tu03720
##	CSI002	0	0.000000e+00	0	2.724387e-05	0	0.000000e+00
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI034	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00
##	CSI045	0	0.000000e+00	0	6.530186e-05	0	0.000000e+00
##	CSI056	0	0.000000e+00	0	7.837144e-05	0	1.959286e-05
##	CSI066	0	0.000000e+00	0	3.833694e-05	0	0.000000e+00
##		0tu03721	0tu03722	0tu03723	0tu03724	0tu03725	0tu03726
##	CSI002	0.000000e+00	0.0000000000	2.724387e-05	0	0	0
##	CSI013	0.000000e+00	0.0000000000	0.000000e+00	0	0	0
##	CSI023	0.000000e+00	0.0000000000	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0.0000000000	0.000000e+00	0	0	0
##	CSI045	0.000000e+00	0.0000000000	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0.0001763357	1.959286e-05	0	0	0
##	CSI066	0.000000e+00	0.0000000000	0.000000e+00	0	0	0
##		0tu03727	0tu03728	0tu03729	0tu03730	0tu03731	0tu03732
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0

##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##	0tu03734	0tu03735	0tu03736	0tu03737	0tu03738	0tu03739	
##	CSI002	0 0.000000e+00	0.000000e+00	0	0 0.000000e+00		
##	CSI013	0 0.000000e+00	0.000000e+00	0	0 0.000000e+00		
##	CSI023	0 0.000000e+00	0.000000e+00	0	0 0.000000e+00		
##	CSI034	0 9.474542e-05	0.000000e+00	0	0 0.000000e+00		
##	CSI045	0 0.000000e+00	0.000000e+00	0	0 3.265093e-05		
##	CSI056	0 0.000000e+00	0.000000e+00	0	0 0.000000e+00		
##	CSI066	0 0.000000e+00	0.000000e+00	0	0 0.000000e+00		
##	0tu03740	0tu03741	0tu03742	0tu03743	0tu03744	0tu03745	
##	CSI002	2.724387e-05	0.000000e+00	0	0 4.086581e-05	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0 0.000000e+00	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0 2.041025e-05	0	
##	CSI034	0.000000e+00	0.000000e+00	0	0 0.000000e+00	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0 3.265093e-05	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0 0.000000e+00	0	
##	CSI066	0.000000e+00	1.916847e-05	0	0 3.833694e-05	0	
##	0tu03746	0tu03747	0tu03748	0tu03749	0tu03750	0tu03751	
##	CSI002	0.000000e+00	1.089755e-04	0 0.000000e+00	0	0	
##	CSI013	0.000000e+00	6.391614e-05	0 0.000000e+00	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0 0.000000e+00	0	0	
##	CSI034	0.000000e+00	0.000000e+00	0 0.000000e+00	0	0	
##	CSI045	3.265093e-05	0.000000e+00	0 0.000000e+00	0	0	
##	CSI056	1.959286e-05	0.000000e+00	0 1.763357e-04	0	0	
##	CSI066	0.000000e+00	0.000000e+00	0 0.000000e+00	0	0	
##	0tu03752	0tu03753	0tu03754	0tu03755	0tu03756	0tu03757	
##	CSI002	8.173162e-05	0	0 0.000000e+00	0	0	
##	CSI013	6.391614e-05	0	0 0.000000e+00	0	0	
##	CSI023	6.123074e-05	0	0 0.000000e+00	0	0	
##	CSI034	0.000000e+00	0	0 9.474542e-05	0	0	
##	CSI045	0.000000e+00	0	0 0.000000e+00	0	0	
##	CSI056	0.000000e+00	0	0 5.877858e-05	0	0	
##	CSI066	0.000000e+00	0	0 0.000000e+00	0	0	
##	0tu03758	0tu03759	0tu03760	0tu03761	0tu03762	0tu03763	
##	CSI002	0	0	0 5.448775e-05	0.000000e+00	0	
##	CSI013	0	0	0 6.391614e-05	0.000000e+00	0	
##	CSI023	0	0	0 0.000000e+00	0.000000e+00	0	
##	CSI034	0	0	0 1.326436e-04	0.000000e+00	0	
##	CSI045	0	0	0 0.000000e+00	0.000000e+00	0	
##	CSI056	0	0	0 0.000000e+00	0.000000e+00	0	
##	CSI066	0	0	0 0.000000e+00	0.000000e+00	0	
##	0tu03764	0tu03765	0tu03766	0tu03767	0tu03768	0tu03769	0tu03770
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##	0tu03771	0tu03772	0tu03773	0tu03774	0tu03775	0tu03776	
##	CSI002	1.362194e-05	0.000000e+00	2.724387e-05	0	0	0
##	CSI013	6.391614e-05	0.000000e+00	2.237065e-04	0	0	0



##	CSI023	2.041025e-05	0.000000e+00	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0.000000e+00	1.326436e-04	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	3.265093e-05	0	0	0
##	CSI056	0.000000e+00	1.959286e-05	0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##		0tu03777	0tu03778	0tu03779	0tu03780	0tu03781	0tu03782
##	CSI002	0	4.086581e-05	0	0	0	0
##	CSI013	0	3.195807e-05	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	5.684725e-05	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu03783	0tu03784	0tu03785	0tu03786	0tu03787	0tu03788
##	CSI002	1.362194e-05	0.000000e+00	0	0	0.000000e+00	0
##	CSI013	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI056	0.000000e+00	5.877858e-05	0	0	0.000000e+00	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	1.916847e-05	0
##		0tu03789	0tu03790	0tu03791	0tu03792	0tu03793	
##	CSI002	0	0.000000e+00	0	0.0001225974	0.000000e+00	
##	CSI013	0	0.000000e+00	0	0.0000000000	0.000000e+00	
##	CSI023	0	0.000000e+00	0	0.0000000000	2.041025e-05	
##	CSI034	0	0.000000e+00	0	0.0000000000	3.789817e-05	
##	CSI045	0	0.000000e+00	0	0.0000000000	0.000000e+00	
##	CSI056	0	0.000000e+00	0	0.0000000000	0.000000e+00	
##	CSI066	0	0.000000e+00	0	0.0000000000	0.000000e+00	
##		0tu03794	0tu03795	0tu03796	0tu03797	0tu03798	0tu03799
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI013	3.195807e-05	0	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI056	0.000000e+00	0	0	0	9.796430e-05	0
##	CSI066	7.667389e-05	0	0	0	0.000000e+00	0
##		0tu03800	0tu03801	0tu03802	0tu03803	0tu03804	0tu03805
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI013	0.000000e+00	0	1.278323e-04	0	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI045	6.530186e-05	0	0.000000e+00	0	0	0
##	CSI056	9.796430e-05	0	2.351143e-04	0	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0
##		0tu03806	0tu03807	0tu03808	0tu03809	0tu03810	0tu03811
##	CSI002	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI013	0	0	0	0	1.278323e-04	0.000000e+00
##	CSI023	0	0	0	0	0.000000e+00	2.041025e-05
##	CSI034	0	0	0	0	1.894908e-05	1.894908e-05
##	CSI045	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI056	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI066	0	0	0	0	1.533478e-04	0.000000e+00
##		0tu03812	0tu03813	0tu03814	0tu03815	0tu03816	0tu03817

##	CSI002	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI013	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI023	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI034	0	0.000000e+00	0	0	0	5.684725e-05
##	CSI045	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI056	0	1.959286e-05	0	0	0	0.000000e+00
##	CSI066	0	0.000000e+00	0	0	0	0.000000e+00
##		0tu03818	0tu03819	0tu03820	0tu03821	0tu03822	0tu03823
##	CSI002	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI013	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI034	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	0.000000e+00	3.918572e-05	0	1.959286e-05	0	0
##	CSI066	0.000000e+00	1.916847e-05	0	0.000000e+00	0	0
##		0tu03824	0tu03825	0tu03826	0tu03827	0tu03828	0tu03829
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	1.959286e-05	0	0
##	CSI066	0	0	0	0.000000e+00	0	0
##		0tu03831	0tu03832	0tu03833	0tu03834	0tu03835	0tu03836
##	CSI002	0	5.448775e-05	0	0	0	0
##	CSI013	0	3.195807e-05	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	3.789817e-05	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu03838	0tu03839	0tu03840	0tu03841	0tu03842	0tu03843
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu03845	0tu03846	0tu03847	0tu03848	0tu03849	
##	CSI002	0.000000e+00	0	1.362194e-05	0	0.000000e+00	
##	CSI013	0.000000e+00	0	0.000000e+00	0	0.000000e+00	
##	CSI023	4.082049e-05	0	0.000000e+00	0	4.082049e-05	
##	CSI034	0.000000e+00	0	5.684725e-05	0	1.136945e-04	
##	CSI045	3.265093e-05	0	0.000000e+00	0	0.000000e+00	
##	CSI056	5.877858e-05	0	1.959286e-05	0	5.877858e-05	
##	CSI066	0.000000e+00	0	1.916847e-05	0	0.000000e+00	
##		0tu03850	0tu03851	0tu03852	0tu03853	0tu03854	
##	CSI002	1.362194e-05	0.000000e+00	0.0000000000	2.724387e-05	0	
##	CSI013	0.000000e+00	0.000000e+00	0.0000000000	2.876226e-04	0	
##	CSI023	0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00	0	
##	CSI034	5.684725e-05	0.000000e+00	0.0000000000	3.789817e-05	0	
##	CSI045	0.000000e+00	0.000000e+00	0.0000000000	0.000000e+00	0	
##	CSI056	0.000000e+00	1.959286e-05	0.0000000000	0.000000e+00	0	

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## CSI066 0.000000e+00 0.000000e+00 0.0000000000 0.000000e+00 0
##      0tu03855      0tu03856      0tu03857      0tu03858      0tu03859
## CSI002      0 4.086581e-05 0.000000e+00 2.724387e-05 0.000000e+00
## CSI013      0 0.000000e+00 6.391614e-05 0.000000e+00 0.000000e+00
## CSI023      0 0.000000e+00 0.000000e+00 0.000000e+00 2.041025e-05
## CSI034      0 9.474542e-05 5.684725e-05 0.000000e+00 1.894908e-05
## CSI045      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI056      0 0.000000e+00 0.000000e+00 1.959286e-05 1.959286e-05
## CSI066      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##      0tu03860 0tu03861 0tu03862 0tu03863      0tu03864 0tu03865
## CSI002      0      0      0      0 0.000000e+00      0
## CSI013      0      0      0      0 0.000000e+00      0
## CSI023      0      0      0      0 0.000000e+00      0
## CSI034      0      0      0      0 3.789817e-05      0
## CSI045      0      0      0      0 0.000000e+00      0
## CSI056      0      0      0      0 0.000000e+00      0
## CSI066      0      0      0      0 0.000000e+00      0
##      0tu03866 0tu03867 0tu03868      0tu03869      0tu03870 0tu03871
## CSI002 2.724387e-05      0      0 0.000000e+00 2.724387e-05      0
## CSI013 0.000000e+00      0      0 3.195807e-05 0.000000e+00      0
## CSI023 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI034 0.000000e+00      0      0 1.894908e-05 0.000000e+00      0
## CSI045 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
## CSI056 3.918572e-05      0      0 0.000000e+00 0.000000e+00      0
## CSI066 0.000000e+00      0      0 0.000000e+00 0.000000e+00      0
##      0tu03872 0tu03873 0tu03874 0tu03875 0tu03876      0tu03877
## CSI002 0.000000e+00      0      0      0      0 2.724387e-05
## CSI013 0.000000e+00      0      0      0      0 0.000000e+00
## CSI023 0.000000e+00      0      0      0      0 0.000000e+00
## CSI034 1.894908e-05      0      0      0      0 1.136945e-04
## CSI045 0.000000e+00      0      0      0      0 0.000000e+00
## CSI056 0.000000e+00      0      0      0      0 0.000000e+00
## CSI066 0.000000e+00      0      0      0      0 0.000000e+00
##      0tu03878 0tu03879 0tu03880 0tu03881 0tu03882      0tu03883
## CSI002 2.724387e-05      0      0      0      0 1.225974e-04
## CSI013 3.195807e-04      0      0      0      0 0.000000e+00
## CSI023 2.041025e-05      0      0      0      0 0.000000e+00
## CSI034 1.894908e-05      0      0      0      0 3.789817e-05
## CSI045 0.000000e+00      0      0      0      0 0.000000e+00
## CSI056 0.000000e+00      0      0      0      0 0.000000e+00
## CSI066 0.000000e+00      0      0      0      0 5.750542e-05
##      0tu03884 0tu03885 0tu03886      0tu03887      0tu03888 0tu03889
## CSI002      0      0      0 0.000000e+00 0.000000e+00      0
## CSI013      0      0      0 0.000000e+00 0.000000e+00      0
## CSI023      0      0      0 0.000000e+00 0.000000e+00      0
## CSI034      0      0      0 0.000000e+00 0.000000e+00      0
## CSI045      0      0      0 0.000000e+00 0.000000e+00      0
## CSI056      0      0      0 1.959286e-05 1.175572e-04      0
## CSI066      0      0      0 0.000000e+00 0.000000e+00      0
##      0tu03890 0tu03891 0tu03892 0tu03893      0tu03894      0tu03895
## CSI002 1.362194e-05      0      0      0 0.000000e+00 0.0000000000
## CSI013 0.000000e+00      0      0      0 0.000000e+00 0.0000000000
## CSI023 0.000000e+00      0      0      0 0.000000e+00 0.0000000000
## CSI034 1.136945e-04      0      0      0 0.000000e+00 0.0000000000

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## CSI045 0.000000e+00      0      0      0 0.000000e+00 0.0000000000
## CSI056 0.000000e+00      0      0      0 0.000000e+00 0.0001959286
## CSI066 3.833694e-05      0      0      0 1.916847e-05 0.0000000000
##      0tu03896      0tu03897      0tu03898 0tu03899 0tu03900 0tu03901
## CSI002      0 0.0000000000 4.086581e-05      0      0      0
## CSI013      0 0.0000000000 6.391614e-05      0      0      0
## CSI023      0 0.0000000000 0.000000e+00      0      0      0
## CSI034      0 0.0000000000 1.894908e-05      0      0      0
## CSI045      0 0.0002612074 0.000000e+00      0      0      0
## CSI056      0 0.0000000000 1.959286e-05      0      0      0
## CSI066      0 0.0000000000 0.000000e+00      0      0      0
##      0tu03902 0tu03903      0tu03904 0tu03905      0tu03906 0tu03907
## CSI002      0      0 0.000000e+00      0 0.0000000000      0
## CSI013      0      0 0.000000e+00      0 0.0001278323      0
## CSI023      0      0 0.000000e+00      0 0.0000000000      0
## CSI034      0      0 0.000000e+00      0 0.0000000000      0
## CSI045      0      0 0.000000e+00      0 0.0000000000      0
## CSI056      0      0 0.000000e+00      0 0.0000000000      0
## CSI066      0      0 0.000000e+00      0 0.0000000000      0
##      0tu03908 0tu03909 0tu03910 0tu03911 0tu03912 0tu03913 0tu03914
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu03915 0tu03916      0tu03917      0tu03918 0tu03919 0tu03920
## CSI002      0      0 0.000000e+00 0.000000e+00      0      0
## CSI013      0      0 0.000000e+00 0.000000e+00      0      0
## CSI023      0      0 0.000000e+00 0.000000e+00      0      0
## CSI034      0      0 0.000000e+00 7.579634e-05      0      0
## CSI045      0      0 0.000000e+00 0.000000e+00      0      0
## CSI056      0      0 5.877858e-05 0.000000e+00      0      0
## CSI066      0      0 3.833694e-05 0.000000e+00      0      0
##      0tu03921      0tu03922      0tu03923 0tu03924      0tu03925
## CSI002      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI013      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI023      0 0.000000e+00 4.082049e-05      0 0.000000e+00
## CSI034      0 0.000000e+00 1.894908e-05      0 3.789817e-05
## CSI045      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI056      0 1.959286e-05 0.000000e+00      0 0.000000e+00
## CSI066      0 0.000000e+00 0.000000e+00      0 0.000000e+00
##      0tu03926 0tu03927 0tu03928      0tu03929 0tu03930 0tu03931
## CSI002 0.000000e+00      0      0 0.000000e+00      0      0
## CSI013 0.000000e+00      0      0 0.000000e+00      0      0
## CSI023 0.000000e+00      0      0 0.000000e+00      0      0
## CSI034 0.000000e+00      0      0 0.000000e+00      0      0
## CSI045 0.000000e+00      0      0 3.265093e-05      0      0
## CSI056 0.000000e+00      0      0 1.959286e-05      0      0
## CSI066 5.750542e-05      0      0 0.000000e+00      0      0
##      0tu03932 0tu03933 0tu03934 0tu03935      0tu03936 0tu03937 0tu03938
## CSI002      0      0      0      0 0.000000e+00      0      0
## CSI013      0      0      0      0 0.000000e+00      0      0

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##	CSI023	0	0	0	0 0.000000e+00	0	0
##	CSI034	0	0	0	0 1.894908e-05	0	0
##	CSI045	0	0	0	0 0.000000e+00	0	0
##	CSI056	0	0	0	0 0.000000e+00	0	0
##	CSI066	0	0	0	0 3.833694e-05	0	0
##		0tu03939	0tu03940	0tu03941	0tu03942	0tu03943	0tu03944
##	CSI002	0.0000000000	0	0	0 0.000000e+00	4.086581e-05	
##	CSI013	0.0009907002	0	0	0 0.000000e+00	0.000000e+00	
##	CSI023	0.0000000000	0	0	0 0.000000e+00	0.000000e+00	
##	CSI034	0.0000000000	0	0	0 3.789817e-05	0.000000e+00	
##	CSI045	0.0000000000	0	0	0 0.000000e+00	0.000000e+00	
##	CSI056	0.0000000000	0	0	0 0.000000e+00	1.959286e-05	
##	CSI066	0.0000000000	0	0	0 7.667389e-05	0.000000e+00	
##		0tu03945	0tu03946	0tu03947	0tu03948	0tu03949	0tu03950
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu03951	0tu03952	0tu03953	0tu03954	0tu03955	0tu03956
##	CSI002	0.000000e+00	0 0.000000e+00		0	0	0
##	CSI013	0.000000e+00	0 0.000000e+00		0	0	0
##	CSI023	0.000000e+00	0 0.000000e+00		0	0	0
##	CSI034	0.000000e+00	0 0.000000e+00		0	0	0
##	CSI045	0.000000e+00	0 0.000000e+00		0	0	0
##	CSI056	0.000000e+00	0 3.918572e-05		0	0	0
##	CSI066	0.000000e+00	0 0.000000e+00		0	0	0
##		0tu03957	0tu03958	0tu03959	0tu03960	0tu03961	0tu03962
##	CSI002	0.000000e+00	1.362194e-05	0	0	0	0
##	CSI013	0.000000e+00	6.391614e-05	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI056	0.000000e+00	1.959286e-05	0	0	0	0
##	CSI066	1.916847e-05	3.833694e-05	0	0	0	0
##		0tu03963	0tu03964	0tu03965	0tu03966	0tu03967	0tu03968
##	CSI002	0 0.000000e+00		0 2.724387e-05		0 0.000000e+00	
##	CSI013	0 0.000000e+00		0 0.000000e+00		0 0.000000e+00	
##	CSI023	0 0.000000e+00		0 0.000000e+00		0 0.000000e+00	
##	CSI034	0 0.000000e+00		0 0.000000e+00		0 0.000000e+00	
##	CSI045	0 0.000000e+00		0 0.000000e+00		0 0.000000e+00	
##	CSI056	0 1.959286e-05		0 0.000000e+00		0 0.000000e+00	
##	CSI066	0 1.916847e-05		0 0.000000e+00		0 0.000000e+00	
##		0tu03969	0tu03970	0tu03971	0tu03972	0tu03973	0tu03974
##	CSI002	1.362194e-05	0 0.0004495239		0	0 0.000000e+00	
##	CSI013	6.391614e-05	0 0.0000000000		0	0 0.000000e+00	
##	CSI023	0.000000e+00	0 0.0000000000		0	0 0.000000e+00	
##	CSI034	0.000000e+00	0 0.0000000000		0	0 0.000000e+00	
##	CSI045	0.000000e+00	0 0.0000000000		0	0 0.000000e+00	
##	CSI056	0.000000e+00	0 0.0000000000		0	0 0.000000e+00	
##	CSI066	0.000000e+00	0 0.0000000000		0	0 0.000000e+00	
##		0tu03975	0tu03976	0tu03977	0tu03978	0tu03979	0tu03980

##	CSI002	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI013	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI023	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI034	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI045	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI056	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI066	0	0.000000e+00	0	0	0	5.750542e-05
##		0tu03981	0tu03982	0tu03983	0tu03984	0tu03985	0tu03986
##	CSI002	0	0	0	0	1.362194e-05	0.0000000000
##	CSI013	0	0	0	0	3.195807e-05	0.0006711195
##	CSI023	0	0	0	0	0.000000e+00	0.0000000000
##	CSI034	0	0	0	0	9.474542e-05	0.0000000000
##	CSI045	0	0	0	0	0.000000e+00	0.0000000000
##	CSI056	0	0	0	0	0.000000e+00	0.0000000000
##	CSI066	0	0	0	0	0.000000e+00	0.0000000000
##		0tu03987	0tu03988	0tu03989	0tu03990	0tu03991	0tu03992
##	CSI002	1.362194e-05	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu03994	0tu03995	0tu03996	0tu03997	0tu03998	0tu03999
##	CSI002	0	0	0	0.0000000000	0	0
##	CSI013	0	0	0	0.0003834969	0	0
##	CSI023	0	0	0	0.0000000000	0	0
##	CSI034	0	0	0	0.0000000000	0	0
##	CSI045	0	0	0	0.0000000000	0	0
##	CSI056	0	0	0	0.0000000000	0	0
##	CSI066	0	0	0	0.0000000000	0	0
##		0tu04001	0tu04002	0tu04003	0tu04004	0tu04005	0tu04006
##	CSI002	2.724387e-05	0	0	0	0	0.000000e+00
##	CSI013	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI034	1.326436e-04	0	0	0	0	3.789817e-05
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu04007	0tu04008	0tu04009	0tu04010	0tu04011	0tu04012
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI034	1.894908e-05	0	0.000000e+00	0	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0	1.916847e-05	0	0	0
##		0tu04013	0tu04014	0tu04015	0tu04016	0tu04017	0tu04018
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	7.579634e-05	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0

##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu04019	0tu04020	0tu04021	0tu04022	0tu04023	0tu04024
##	CSI002	1.362194e-05	0.000000e+00	0	9.535356e-05	0	0
##	CSI013	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI034	5.684725e-05	1.894908e-05	0	0.000000e+00	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	3.918572e-05	0.000000e+00	0	0.000000e+00	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##		0tu04025	0tu04026	0tu04027	0tu04028	0tu04029	0tu04030
##	CSI002	0	0	0	0.0000000000	0	0
##	CSI013	0	0	0	0.0000000000	0	0
##	CSI023	0	0	0	0.0000000000	0	0
##	CSI034	0	0	0	0.0001136945	0	0
##	CSI045	0	0	0	0.0000000000	0	0
##	CSI056	0	0	0	0.0000000000	0	0
##	CSI066	0	0	0	0.0000000000	0	0
##		0tu04032	0tu04033	0tu04034	0tu04035	0tu04036	0tu04037
##	CSI002	0	0	0	0	0.0000000000	0
##	CSI013	0	0	0	0	0.0002237065	0
##	CSI023	0	0	0	0	0.0000000000	0
##	CSI034	0	0	0	0	0.0000000000	0
##	CSI045	0	0	0	0	0.0000000000	0
##	CSI056	0	0	0	0	0.0000000000	0
##	CSI066	0	0	0	0	0.0000000000	0
##		0tu04039	0tu04040	0tu04041	0tu04042	0tu04043	0tu04044
##	CSI002	0	0	4.086581e-05	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	7.579634e-05	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0
##		0tu04046	0tu04047	0tu04048	0tu04049	0tu04050	0tu04051
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	4.082049e-05	0	0	0	0
##	CSI034	0	3.789817e-05	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu04053	0tu04054	0tu04055	0tu04056	0tu04057	0tu04058
##	CSI002	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI013	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	2.041025e-05	0
##	CSI034	0.000000e+00	1.326436e-04	0	0	0.000000e+00	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI056	1.175572e-04	0.000000e+00	0	0	0.000000e+00	0
##	CSI066	1.916847e-05	0.000000e+00	0	0	0.000000e+00	0
##		0tu04059	0tu04060	0tu04061	0tu04062	0tu04063	0tu04064
##	CSI002	1.362194e-05	0.000000e+00	9.535356e-05	0	0	0
##	CSI013	3.195807e-05	0.000000e+00	9.587421e-05	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0

##	CSI045	0.000000e+00	0.000000e+00	3.265093e-05	0	0	0	
##	CSI056	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	CSI066	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##		0tu04065	0tu04066	0tu04067	0tu04068	0tu04069	0tu04070	
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	5.684725e-05	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	7.837144e-05	0	3.918572e-05	0.000000e+00	
##	CSI066	0	0	0.000000e+00	0	1.341793e-04	0.000000e+00	
##		0tu04071	0tu04072	0tu04073	0tu04074	0tu04075	0tu04076	
##	CSI002	0	0.0000000000	0	0	4.086581e-05	0	
##	CSI013	0	0.0000000000	0	0	0.000000e+00	0	
##	CSI023	0	0.0000000000	0	0	6.123074e-05	0	
##	CSI034	0	0.0001894908	0	0	0.000000e+00	0	
##	CSI045	0	0.0000000000	0	0	0.000000e+00	0	
##	CSI056	0	0.0000000000	0	0	0.000000e+00	0	
##	CSI066	0	0.0000000000	0	0	0.000000e+00	0	
##		0tu04077	0tu04078	0tu04079	0tu04080	0tu04081	0tu04082	0tu04083
##	CSI002	0	0	0	0	0	0	1.089755e-04
##	CSI013	0	0	0	0	0	0	3.195807e-05
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	3.789817e-05
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu04084	0tu04085	0tu04086	0tu04087	0tu04088	0tu04089	
##	CSI002	0	0.000000e+00	0	0	0	1.362194e-05	
##	CSI013	0	0.000000e+00	0	0	0	6.391614e-05	
##	CSI023	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI034	0	0.000000e+00	0	0	0	3.789817e-05	
##	CSI045	0	3.265093e-05	0	0	0	0.000000e+00	
##	CSI056	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI066	0	5.750542e-05	0	0	0	0.000000e+00	
##		0tu04090	0tu04091	0tu04092	0tu04093	0tu04094	0tu04095	0tu04096
##	CSI002	0	0	1.362194e-05	0	0	0	0
##	CSI013	0	0	3.195807e-05	0	0	0	0
##	CSI023	0	0	2.041025e-05	0	0	0	0
##	CSI034	0	0	1.894908e-05	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	1.916847e-05	0	0	0	0
##		0tu04097	0tu04098	0tu04099	0tu04100	0tu04101	0tu04102	
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI013	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI023	0	0	0.000000e+00	0	2.041025e-05	0	
##	CSI034	0	0	0.000000e+00	0	5.684725e-05	0	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI066	0	0	3.833694e-05	0	0.000000e+00	0	
##		0tu04103	0tu04104	0tu04105	0tu04106	0tu04107	0tu04108	
##	CSI002	0	1.362194e-05	0	0	0	0.000000e+00	
##	CSI013	0	0.000000e+00	0	0	0	0.000000e+00	



##	CSI023	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI034	0	9.474542e-05	0	0	0	0.000000e+00
##	CSI045	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI056	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI066	0	0.000000e+00	0	0	0	5.750542e-05
##	Otu04109	Otu04110	Otu04111	Otu04112	Otu04113	Otu04114	
##	CSI002	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI013	0	3.195807e-05	0.000000e+00	0	0	0.000000e+00
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI034	0	1.515927e-04	0.000000e+00	0	0	0.000000e+00
##	CSI045	0	3.265093e-05	0.000000e+00	0	0	0.000000e+00
##	CSI056	0	0.000000e+00	2.351143e-04	0	0	0.000000e+00
##	CSI066	0	0.000000e+00	9.584236e-05	0	0	0.000000e+00
##	Otu04115	Otu04116	Otu04117	Otu04118	Otu04119	Otu04120	
##	CSI002	0	0.000000e+00	1.362194e-05	0	0	0
##	CSI013	0	0.000000e+00	9.587421e-05	0	0	0
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI034	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI045	0	3.265093e-05	0.000000e+00	0	0	0
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0
##	Otu04121	Otu04122	Otu04123	Otu04124	Otu04125	Otu04126	
##	CSI002	0.0000000000	0	0.000000e+00	0	0	0.000000e+00
##	CSI013	0.0000000000	0	0.000000e+00	0	0	0.000000e+00
##	CSI023	0.0000000000	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	0.0005305743	0	5.684725e-05	0	0	0.000000e+00
##	CSI045	0.0000000000	0	3.265093e-05	0	0	0.000000e+00
##	CSI056	0.0000000000	0	0.000000e+00	0	0	0.000000e+00
##	CSI066	0.0000000000	0	0.000000e+00	0	0	1.916847e-05
##	Otu04127	Otu04128	Otu04129	Otu04130	Otu04131	Otu04132	
##	CSI002	0.000000e+00	0	0	0.0000000000	0	0.000000e+00
##	CSI013	3.195807e-05	0	0	0.0000000000	0	0.000000e+00
##	CSI023	0.000000e+00	0	0	0.0000000000	0	0.000000e+00
##	CSI034	0.000000e+00	0	0	0.0000000000	0	0.000000e+00
##	CSI045	0.000000e+00	0	0	0.0002612074	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0.0000000000	0	1.959286e-05
##	CSI066	0.000000e+00	0	0	0.0000000000	0	0.000000e+00
##	Otu04133	Otu04134	Otu04135	Otu04136	Otu04137	Otu04138	
##	CSI002	0	0	1.362194e-05	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	1.959286e-05	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0
##	Otu04139	Otu04140	Otu04141	Otu04142	Otu04143		
##	CSI002	0.000000e+00	1.362194e-05	0	0.000000e+00	0.000000e+00	
##	CSI013	0.000000e+00	0.000000e+00	0	3.195807e-05	1.917484e-04	
##	CSI023	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI034	0.000000e+00	3.789817e-05	0	1.515927e-04	0.000000e+00	
##	CSI045	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI056	0.000000e+00	0.000000e+00	0	0.000000e+00	1.959286e-05	
##	CSI066	1.916847e-05	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	Otu04144	Otu04145	Otu04146	Otu04147	Otu04148	Otu04149	

##	CSI002	0	0	0 0.000000e+00	0	0
##	CSI013	0	0	0 3.195807e-05	0	0
##	CSI023	0	0	0 0.000000e+00	0	0
##	CSI034	0	0	0 0.000000e+00	0	0
##	CSI045	0	0	0 0.000000e+00	0	0
##	CSI056	0	0	0 0.000000e+00	0	0
##	CSI066	0	0	0 0.000000e+00	0	0
##		0tu04150	0tu04151	0tu04152	0tu04153	0tu04154 0tu04155
##	CSI002	0.000000e+00	0	0 0.000000e+00	5.448775e-05	0
##	CSI013	3.195807e-05	0	0 0.000000e+00	0.000000e+00	0
##	CSI023	0.000000e+00	0	0 0.000000e+00	0.000000e+00	0
##	CSI034	1.326436e-04	0	0 0.000000e+00	1.894908e-04	0
##	CSI045	0.000000e+00	0	0 0.000000e+00	0.000000e+00	0
##	CSI056	0.000000e+00	0	0 1.959286e-05	0.000000e+00	0
##	CSI066	0.000000e+00	0	0 0.000000e+00	1.916847e-05	0
##		0tu04156	0tu04157	0tu04158	0tu04159	0tu04160 0tu04161
##	CSI002	2.724387e-05	0	0.000000e+00	0	0 0
##	CSI013	1.278323e-04	0	0.000000e+00	0	0 0
##	CSI023	2.041025e-05	0	0.000000e+00	0	0 0
##	CSI034	9.474542e-05	0	0.000000e+00	0	0 0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0 0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0 0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0 0
##		0tu04162	0tu04163	0tu04164	0tu04165	0tu04166 0tu04167
##	CSI002	0.000000e+00	0	0 1.362194e-05	0	0 0
##	CSI013	6.391614e-05	0	0 3.195807e-05	0	0 0
##	CSI023	0.000000e+00	0	0 0.000000e+00	0	0 0
##	CSI034	0.000000e+00	0	0 0.000000e+00	0	0 0
##	CSI045	0.000000e+00	0	0 0.000000e+00	0	0 0
##	CSI056	0.000000e+00	0	0 0.000000e+00	0	0 0
##	CSI066	0.000000e+00	0	0 0.000000e+00	0	0 0
##		0tu04168	0tu04169	0tu04170	0tu04171	0tu04172 0tu04173
##	CSI002	0 0.000000e+00	0	0 0.000000e+00	0	0
##	CSI013	0 0.000000e+00	0	0 0.000000e+00	0	0
##	CSI023	0 0.000000e+00	0	0 0.000000e+00	0	0
##	CSI034	0 0.000000e+00	0	0 0.000000e+00	0	0
##	CSI045	0 0.000000e+00	0	0 3.265093e-05	0	0
##	CSI056	0 0.000000e+00	0	0 1.959286e-05	0	0
##	CSI066	0 0.000000e+00	0	0 3.833694e-05	0	0
##		0tu04174	0tu04175	0tu04176	0tu04177	0tu04178 0tu04179 0tu04180
##	CSI002	1.362194e-05	0	0	0	0 0 0
##	CSI013	6.391614e-05	0	0	0	0 0 0
##	CSI023	0.000000e+00	0	0	0	0 0 0
##	CSI034	1.326436e-04	0	0	0	0 0 0
##	CSI045	0.000000e+00	0	0	0	0 0 0
##	CSI056	0.000000e+00	0	0	0	0 0 0
##	CSI066	0.000000e+00	0	0	0	0 0 0
##		0tu04181	0tu04182	0tu04183	0tu04184	0tu04185 0tu04186 0tu04187
##	CSI002	0	0 0.000000e+00	0	0	0 0 0
##	CSI013	0	0 0.000000e+00	0	0	0 0 0
##	CSI023	0	0 0.000000e+00	0	0	0 0 0
##	CSI034	0	0 0.000000e+00	0	0	0 0 0
##	CSI045	0	0 0.000000e+00	0	0	0 0 0
##	CSI056	0	0 0.000000e+00	0	0	0 0 0

##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu04188	0tu04189	0tu04190	0tu04191	0tu04192	0tu04193	0tu04194
##	CSI002	0	0	0 0.000000e+00	0	0	0	0
##	CSI013	0	0	0 0.000000e+00	0	0	0	0
##	CSI023	0	0	0 0.000000e+00	0	0	0	0
##	CSI034	0	0	0 0.000000e+00	0	0	0	0
##	CSI045	0	0	0 0.000000e+00	0	0	0	0
##	CSI056	0	0	0 0.000000e+00	0	0	0	0
##	CSI066	0	0	0 0.000000e+00	0	0	0	0
##		0tu04195	0tu04196	0tu04197	0tu04198	0tu04199	0tu04200	
##	CSI002	0	0	0 1.362194e-05	0.0000000000		0	
##	CSI013	0	0	0 0.000000e+00	0.0000000000		0	
##	CSI023	0	0	0 0.000000e+00	0.0000000000		0	
##	CSI034	0	0	0 0.000000e+00	0.0001136945		0	
##	CSI045	0	0	0 6.530186e-05	0.0000000000		0	
##	CSI056	0	0	0 1.959286e-05	0.0000000000		0	
##	CSI066	0	0	0 5.750542e-05	0.0000000000		0	
##		0tu04201	0tu04202	0tu04203	0tu04204	0tu04205	0tu04206	
##	CSI002	0	0	0 0.000000e+00	0 0.000000e+00		0	
##	CSI013	0	0	0 0.000000e+00	0 0.000000e+00		0	
##	CSI023	0	0	0 0.000000e+00	0 0.000000e+00		0	
##	CSI034	0	0	0 0.000000e+00	0 0.000000e+00		0	
##	CSI045	0	0	0 9.795279e-05	0 6.530186e-05		0	
##	CSI056	0	0	0 0.000000e+00	0 0.000000e+00		0	
##	CSI066	0	0	0 0.000000e+00	0 0.000000e+00		0	
##		0tu04207	0tu04208	0tu04209	0tu04210	0tu04211		
##	CSI002	0	0.000000e+00	0	2.724387e-05	1.362194e-05		
##	CSI013	0	0.000000e+00	0	0.000000e+00	1.278323e-04		
##	CSI023	0	0.000000e+00	0	0.000000e+00	2.041025e-05		
##	CSI034	0	0.000000e+00	0	1.136945e-04	0.000000e+00		
##	CSI045	0	1.306037e-04	0	0.000000e+00	0.000000e+00		
##	CSI056	0	1.959286e-05	0	0.000000e+00	0.000000e+00		
##	CSI066	0	0.000000e+00	0	0.000000e+00	0.000000e+00		
##		0tu04212	0tu04213	0tu04214	0tu04215	0tu04216		
##	CSI002	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		0	
##	CSI013	3.195807e-05	0.000000e+00	0.000000e+00	0.000000e+00		0	
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		0	
##	CSI034	7.579634e-05	3.789817e-05	0.000000e+00	1.894908e-05		0	
##	CSI045	0.000000e+00	0.000000e+00	3.265093e-05	0.000000e+00		0	
##	CSI056	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		0	
##	CSI066	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		0	
##		0tu04217	0tu04218	0tu04219	0tu04220	0tu04221	0tu04222	0tu04223
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu04224	0tu04225	0tu04226	0tu04227	0tu04228	0tu04229	0tu04230
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0

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## CSI045      0 9.795279e-05      0      0      0      0      0
## CSI056      0 0.000000e+00      0      0      0      0      0
## CSI066      0 5.750542e-05      0      0      0      0      0
##          0tu04231 0tu04232 0tu04233      0tu04234 0tu04235      0tu04236
## CSI002 2.724387e-05      0      0 4.086581e-05      0 0.000000e+00
## CSI013 0.000000e+00      0      0 0.000000e+00      0 3.195807e-05
## CSI023 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI034 1.894908e-05      0      0 9.474542e-05      0 0.000000e+00
## CSI045 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI056 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI066 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
##          0tu04237      0tu04238      0tu04239 0tu04240      0tu04241 0tu04242
## CSI002      0 1.362194e-05 0.000000e+00      0 0.000000e+00      0
## CSI013      0 0.000000e+00 6.391614e-05      0 0.000000e+00      0
## CSI023      0 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI034      0 0.000000e+00 3.221344e-04      0 0.000000e+00      0
## CSI045      0 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI056      0 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI066      0 3.833694e-05 0.000000e+00      0 9.584236e-05      0
##          0tu04243      0tu04244 0tu04245      0tu04246      0tu04247
## CSI002 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI013 0.000000e+00 3.195807e-05      0 3.195807e-05 0.000000e+00
## CSI023 0.000000e+00 0.000000e+00      0 6.123074e-05 0.000000e+00
## CSI034 7.579634e-05 0.000000e+00      0 0.000000e+00 1.894908e-05
## CSI045 0.000000e+00 0.000000e+00      0 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00 3.918572e-05      0 0.000000e+00 0.000000e+00
## CSI066 0.000000e+00 0.000000e+00      0 0.000000e+00 1.916847e-05
##          0tu04248      0tu04249 0tu04250 0tu04251 0tu04252 0tu04253 0tu04254
## CSI002      0 1.362194e-05      0      0      0      0      0
## CSI013      0 0.000000e+00      0      0      0      0      0
## CSI023      0 0.000000e+00      0      0      0      0      0
## CSI034      0 9.474542e-05      0      0      0      0      0
## CSI045      0 0.000000e+00      0      0      0      0      0
## CSI056      0 0.000000e+00      0      0      0      0      0
## CSI066      0 0.000000e+00      0      0      0      0      0
##          0tu04255 0tu04256 0tu04257 0tu04258      0tu04259 0tu04260 0tu04261
## CSI002      0      0      0      0 0.000000e+00      0      0
## CSI013      0      0      0      0 0.000000e+00      0      0
## CSI023      0      0      0      0 0.000000e+00      0      0
## CSI034      0      0      0      0 1.894908e-05      0      0
## CSI045      0      0      0      0 0.000000e+00      0      0
## CSI056      0      0      0      0 0.000000e+00      0      0
## CSI066      0      0      0      0 0.000000e+00      0      0
##          0tu04262 0tu04263      0tu04264 0tu04265 0tu04266 0tu04267
## CSI002 1.362194e-05      0 0.000000e+00      0      0      0
## CSI013 1.278323e-04      0 0.000000e+00      0      0      0
## CSI023 0.000000e+00      0 0.000000e+00      0      0      0
## CSI034 0.000000e+00      0 1.894908e-05      0      0      0
## CSI045 0.000000e+00      0 0.000000e+00      0      0      0
## CSI056 0.000000e+00      0 0.000000e+00      0      0      0
## CSI066 9.584236e-05      0 0.000000e+00      0      0      0
##          0tu04268 0tu04269      0tu04270      0tu04271 0tu04272
## CSI002 0.000000e+00      0 0.000000e+00 0.0000000000      0
## CSI013 0.000000e+00      0 0.000000e+00 0.0000000000      0

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## CSI023 0.000000e+00      0 0.000000e+00 0.0000000000      0
## CSI034 0.000000e+00      0 0.000000e+00 0.0000000000      0
## CSI045 0.000000e+00      0 0.000000e+00 0.0000000000      0
## CSI056 5.877858e-05      0 9.796430e-05 0.0000000000      0
## CSI066 0.000000e+00      0 3.833694e-05 0.0000000000      0
##      0tu04273      0tu04274      0tu04275 0tu04276 0tu04277 0tu04278
## CSI002 0.000000e+00 4.086581e-05 0.000000e+00      0      0      0
## CSI013 3.195807e-05 3.195807e-05 0.000000e+00      0      0      0
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00      0      0      0
## CSI034 7.579634e-05 7.579634e-05 0.000000e+00      0      0      0
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00      0      0      0
## CSI056 0.000000e+00 0.000000e+00 0.000000e+00      0      0      0
## CSI066 0.000000e+00 0.000000e+00 1.916847e-05      0      0      0
##      0tu04279 0tu04280 0tu04281 0tu04282 0tu04283 0tu04284      0tu04285
## CSI002      0      0      0      0      0      0 0.000000e+00
## CSI013      0      0      0      0      0      0 0.000000e+00
## CSI023      0      0      0      0      0      0 0.000000e+00
## CSI034      0      0      0      0      0      0 0.000000e+00
## CSI045      0      0      0      0      0      0 0.000000e+00
## CSI056      0      0      0      0      0      0 3.918572e-05
## CSI066      0      0      0      0      0      0 0.000000e+00
##      0tu04286      0tu04287 0tu04288      0tu04289 0tu04290 0tu04291
## CSI002      0 0.000000e+00      0 0.000000e+00      0      0
## CSI013      0 0.000000e+00      0 3.195807e-05      0      0
## CSI023      0 0.000000e+00      0 0.000000e+00      0      0
## CSI034      0 0.000000e+00      0 0.000000e+00      0      0
## CSI045      0 0.000000e+00      0 0.000000e+00      0      0
## CSI056      0 1.959286e-05      0 0.000000e+00      0      0
## CSI066      0 5.750542e-05      0 0.000000e+00      0      0
##      0tu04292      0tu04293      0tu04294 0tu04295 0tu04296 0tu04297
## CSI002      0 0.000000e+00 0.000000e+00      0      0      0
## CSI013      0 0.000000e+00 3.195807e-05      0      0      0
## CSI023      0 0.000000e+00 0.000000e+00      0      0      0
## CSI034      0 3.789817e-05 0.000000e+00      0      0      0
## CSI045      0 0.000000e+00 0.000000e+00      0      0      0
## CSI056      0 1.371500e-04 0.000000e+00      0      0      0
## CSI066      0 0.000000e+00 0.000000e+00      0      0      0
##      0tu04298      0tu04299 0tu04300 0tu04301 0tu04302      0tu04303
## CSI002      0 0.000000e+00      0      0      0 5.448775e-05
## CSI013      0 0.000000e+00      0      0      0 0.000000e+00
## CSI023      0 0.000000e+00      0      0      0 0.000000e+00
## CSI034      0 3.789817e-05      0      0      0 1.894908e-05
## CSI045      0 0.000000e+00      0      0      0 0.000000e+00
## CSI056      0 0.000000e+00      0      0      0 0.000000e+00
## CSI066      0 0.000000e+00      0      0      0 1.916847e-05
##      0tu04304      0tu04305      0tu04306 0tu04307 0tu04308      0tu04309
## CSI002      0 0.000000e+00 0.000000e+00      0      0 1.362194e-05
## CSI013      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI023      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI034      0 5.684725e-05 0.000000e+00      0      0 0.000000e+00
## CSI045      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI056      0 0.000000e+00 1.959286e-05      0      0 1.959286e-05
## CSI066      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
##      0tu04310 0tu04311      0tu04312      0tu04313 0tu04314 0tu04315

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##	CSI002	0.000000e+00	0	0.000000e+00	1.362194e-05	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	2.041025e-05	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0.000000e+00	0	0.000000e+00	2.463381e-04	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI066	0.000000e+00	0	1.916847e-05	0.000000e+00	0	0
##		0tu04316	0tu04317	0tu04318	0tu04319	0tu04320	0tu04321
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	3.789817e-05	0	0
##	CSI045	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0.000000e+00	0	0
##		0tu04323	0tu04324	0tu04325	0tu04326	0tu04327	0tu04328
##	CSI002	0	0	0.000000e+00	2.724387e-05	0	0
##	CSI013	0	0	0.000000e+00	3.195807e-05	0	0
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI045	0	0	6.530186e-05	0.000000e+00	0	0
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI066	0	0	3.833694e-05	0.000000e+00	0	0
##		0tu04329	0tu04330	0tu04331	0tu04332	0tu04333	0tu04334
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	1.894908e-05
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu04335	0tu04336	0tu04337	0tu04338	0tu04339	
##	CSI002	0.000000e+00	0	0.0000000000	0	2.724387e-05	
##	CSI013	0.000000e+00	0	0.0000000000	0	3.195807e-05	
##	CSI023	0.000000e+00	0	0.0000000000	0	0.000000e+00	
##	CSI034	0.000000e+00	0	0.0000000000	0	1.326436e-04	
##	CSI045	0.000000e+00	0	0.0000000000	0	0.000000e+00	
##	CSI056	0.000000e+00	0	0.0000000000	0	0.000000e+00	
##	CSI066	0.000000e+00	0	0.0000000000	0	0.000000e+00	
##		0tu04340	0tu04341	0tu04342	0tu04343	0tu04344	0tu04345
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	3.918572e-05	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu04347	0tu04348	0tu04349	0tu04350	0tu04351	0tu04352
##	CSI002	0	0.000000e+00	0	0.000000e+00	0.0000000000	0
##	CSI013	0	0.000000e+00	0	0.000000e+00	0.0000000000	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	0.0000000000	0
##	CSI034	0	1.894908e-05	0	0.000000e+00	0.0001515927	0
##	CSI045	0	0.000000e+00	0	3.265093e-05	0.0000000000	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0.0000000000	0

##	CSI066	0	0.000000e+00	0	3.833694e-05	0.0000000000	0
##		0tu04353	0tu04354	0tu04355	0tu04356	0tu04357	0tu04358
##	CSI002	0	1.362194e-05	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	3.789817e-05	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu04360	0tu04361	0tu04362	0tu04363	0tu04364	0tu04365
##	CSI002	0	1.907071e-04	0	0	0	0
##	CSI013	0	9.587421e-05	0	0	0	0
##	CSI023	0	2.041025e-05	0	0	0	0
##	CSI034	0	3.789817e-05	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu04366	0tu04367	0tu04368	0tu04369	0tu04370	0tu04371
##	CSI002	0.000000e+00	1.362194e-05	0	0	0	0
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	7.579634e-05	1.705418e-04	0	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI056	1.371500e-04	0.000000e+00	0	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu04372	0tu04373	0tu04374	0tu04375	0tu04376	0tu04377
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	3.918572e-05
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu04379	0tu04380	0tu04381	0tu04382	0tu04383	0tu04384
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	1.959286e-05
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu04385	0tu04386	0tu04387	0tu04388	0tu04389	
##	CSI002	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI013	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI023	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI034	7.579634e-05	0.000000e+00	0	5.684725e-05	0.000000e+00	
##	CSI045	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI056	0.000000e+00	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI066	0.000000e+00	0.000000e+00	0	1.916847e-05	0.000000e+00	
##		0tu04390	0tu04391	0tu04392	0tu04393	0tu04394	0tu04395
##	CSI002	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI013	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI034	0	1.894908e-05	0	0.000000e+00	0.000000e+00	0

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## CSI045      0 0.000000e+00      0 3.265093e-05 0.000000e+00      0
## CSI056      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI066      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
##      0tu04396 0tu04397 0tu04398 0tu04399 0tu04400 0tu04401
## CSI002 0.000000e+00      0      0      0      0      0
## CSI013 6.391614e-05      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0
##      0tu04402 0tu04403      0tu04404 0tu04405 0tu04406      0tu04407
## CSI002 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI013 0.000000e+00      0 2.556646e-04      0      0 3.195807e-05
## CSI023 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI034 1.894908e-05      0 7.579634e-05      0      0 7.579634e-05
## CSI045 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI056 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI066 1.916847e-05      0 0.000000e+00      0      0 0.000000e+00
##      0tu04408      0tu04409 0tu04410      0tu04411 0tu04412 0tu04413
## CSI002      0 1.362194e-05      0 0.000000e+00      0      0
## CSI013      0 6.391614e-05      0 1.917484e-04      0      0
## CSI023      0 0.000000e+00      0 0.000000e+00      0      0
## CSI034      0 1.894908e-05      0 3.789817e-05      0      0
## CSI045      0 0.000000e+00      0 0.000000e+00      0      0
## CSI056      0 0.000000e+00      0 1.959286e-05      0      0
## CSI066      0 0.000000e+00      0 0.000000e+00      0      0
##      0tu04414 0tu04415      0tu04416      0tu04417 0tu04418 0tu04419
## CSI002      0      0 1.362194e-05 2.724387e-05      0      0
## CSI013      0      0 0.000000e+00 3.195807e-05      0      0
## CSI023      0      0 0.000000e+00 0.000000e+00      0      0
## CSI034      0      0 0.000000e+00 7.579634e-05      0      0
## CSI045      0      0 0.000000e+00 0.000000e+00      0      0
## CSI056      0      0 0.000000e+00 0.000000e+00      0      0
## CSI066      0      0 0.000000e+00 0.000000e+00      0      0
##      0tu04420 0tu04421 0tu04422 0tu04423 0tu04424      0tu04425 0tu04426
## CSI002      0      0      0      0      0 0.000000e+00      0
## CSI013      0      0      0      0      0 0.000000e+00      0
## CSI023      0      0      0      0      0 0.000000e+00      0
## CSI034      0      0      0      0      0 0.000000e+00      0
## CSI045      0      0      0      0      0 0.000000e+00      0
## CSI056      0      0      0      0      0 0.000000e+00      0
## CSI066      0      0      0      0      0 0.000000e+00      0
##      0tu04427 0tu04428      0tu04429      0tu04430 0tu04431 0tu04432
## CSI002 0.000000e+00      0 4.086581e-05 0.000000e+00      0      0
## CSI013 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI034 0.000000e+00      0 3.789817e-04 1.894908e-05      0      0
## CSI045 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI056 9.796430e-05      0 0.000000e+00 0.000000e+00      0      0
## CSI066 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
##      0tu04433 0tu04434      0tu04435 0tu04436      0tu04437 0tu04438
## CSI002      0      0 0.000000e+00      0 0.000000e+00      0
## CSI013      0      0 6.391614e-05      0 0.000000e+00      0

```



##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI034	0	0	7.579634e-05	0	0.000000e+00	0
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0
##		0tu04439	0tu04440	0tu04441	0tu04442	0tu04443	0tu04444
##	CSI002	0.000000e+00	0	0	1.362194e-05	0	0
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI034	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI045	0.000000e+00	0	0	6.530186e-05	0	0
##	CSI056	2.351143e-04	0	0	0.000000e+00	0	0
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0
##		0tu04445	0tu04446	0tu04447	0tu04448	0tu04449	0tu04450
##	CSI002	1.362194e-05	0	0	0	0.0001089755	0.000000e+00
##	CSI013	0.000000e+00	0	0	0	0.0000000000	0.000000e+00
##	CSI023	0.000000e+00	0	0	0	0.0000000000	0.000000e+00
##	CSI034	3.789817e-04	0	0	0	0.0001705418	0.000000e+00
##	CSI045	0.000000e+00	0	0	0	0.0000000000	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	0.0000000000	1.959286e-05
##	CSI066	0.000000e+00	0	0	0	0.0000000000	0.000000e+00
##		0tu04451	0tu04452	0tu04453	0tu04454	0tu04455	0tu04456
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	3.265093e-05
##	CSI056	0	0	0	0	0	7.837144e-05
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu04458	0tu04459	0tu04460	0tu04461	0tu04462	0tu04463
##	CSI002	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI013	0	0.000000e+00	0.000000e+00	0	0	3.195807e-05
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	2.041025e-05
##	CSI034	0	1.894908e-04	0.000000e+00	0	0	0.000000e+00
##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##		0tu04464	0tu04465	0tu04466	0tu04467	0tu04468	
##	CSI002	0	1.362194e-05	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI013	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI023	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI034	0	0.000000e+00	1.894908e-05	0.000000e+00	0.000000e+00	
##	CSI045	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI056	0	0.000000e+00	0.000000e+00	5.877858e-05	0.000000e+00	
##	CSI066	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##		0tu04469	0tu04470	0tu04471	0tu04472	0tu04473	0tu04474
##	CSI002	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI013	0	0	0	0.000000e+00	3.195807e-05	0
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI034	0	0	0	3.789817e-05	0.000000e+00	0
##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI066	0	0	0	0.000000e+00	0.000000e+00	0
##		0tu04475	0tu04476	0tu04477	0tu04478	0tu04479	0tu04480
##							0tu04481

##	CSI002	0	0	1.362194e-05	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	2.041025e-05	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu04482	0tu04483	0tu04484	0tu04485	0tu04486	0tu04487	0tu04488
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	2.041025e-05	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		0tu04489	0tu04490	0tu04491	0tu04492	0tu04493	0tu04494	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI045	3.265093e-05	0.000000e+00	0	0	0	0.000000e+00	
##	CSI056	7.837144e-05	3.918572e-05	0	0	0	0.000000e+00	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##		0tu04495	0tu04496	0tu04497	0tu04498	0tu04499	0tu04500	0tu04501
##	CSI002	0	0	0	0	0.0000000000	0	0
##	CSI013	0	0	0	0	0.0000000000	0	0
##	CSI023	0	0	0	0	0.0000000000	0	0
##	CSI034	0	0	0	0	0.0002842363	0	0
##	CSI045	0	0	0	0	0.0000000000	0	0
##	CSI056	0	0	0	0	0.0000000000	0	0
##	CSI066	0	0	0	0	0.0000000000	0	0
##		0tu04502	0tu04503	0tu04504	0tu04505	0tu04506	0tu04507	0tu04508
##	CSI002	0	0	0.0000000000	0	0	0	0
##	CSI013	0	0	0.0000000000	0	0	0	0
##	CSI023	0	0	0.0000000000	0	0	0	0
##	CSI034	0	0	0.0001705418	0	0	0	0
##	CSI045	0	0	0.0000000000	0	0	0	0
##	CSI056	0	0	0.0000000000	0	0	0	0
##	CSI066	0	0	0.0000000000	0	0	0	0
##		0tu04509	0tu04510	0tu04511	0tu04512	0tu04513	0tu04514	0tu04515
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	2.041025e-05	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		0tu04516	0tu04517	0tu04518	0tu04519	0tu04520	0tu04521	
##	CSI002	0	0	0	0.0000000000	0	0.000000e+00	
##	CSI013	0	0	0	0.0000000000	0	0.000000e+00	
##	CSI023	0	0	0	0.0000000000	0	0.000000e+00	
##	CSI034	0	0	0	0.0000000000	0	0.000000e+00	
##	CSI045	0	0	0	0.0000000000	0	0.000000e+00	
##	CSI056	0	0	0	0.0001175572	0	1.959286e-05	

##	CSI066	0	0	0	0.0000000000	0	3.833694e-05
##		0tu04522	0tu04523	0tu04524	0tu04525	0tu04526	0tu04527 0tu04528
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	6.530186e-05	0	0
##	CSI056	0	0	0	3.918572e-05	0	0
##	CSI066	0	0	0	0.000000e+00	0	0
##		0tu04529	0tu04530	0tu04531	0tu04532	0tu04533	0tu04534
##	CSI002	0	0	4.086581e-05	0	0	0.000000e+00
##	CSI013	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI023	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	0	0	5.684725e-05	0	0	0.000000e+00
##	CSI045	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI056	0	0	0.000000e+00	0	0	1.959286e-05
##	CSI066	0	0	0.000000e+00	0	0	1.916847e-05
##		0tu04535	0tu04536	0tu04537	0tu04538	0tu04539	0tu04540
##	CSI002	0	0	0	0.000000e+00	4.086581e-05	2.724387e-05
##	CSI013	0	0	0	0.000000e+00	3.195807e-05	0.000000e+00
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI034	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI056	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI066	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##		0tu04541	0tu04542	0tu04543	0tu04544	0tu04545	0tu04546
##	CSI002	0	0	0	0	0.000000e+00	1.362194e-05
##	CSI013	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI023	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI034	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI045	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI056	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI066	0	0	0	0	0.000000e+00	0.000000e+00
##		0tu04547	0tu04548	0tu04549	0tu04550	0tu04551	0tu04552
##	CSI002	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI013	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI023	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI034	0	0.000000e+00	0	0	0	1.894908e-05
##	CSI045	0	9.795279e-05	0	0	0	0.000000e+00
##	CSI056	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI066	0	0.000000e+00	0	0	0	0.000000e+00
##		0tu04553	0tu04554	0tu04555	0tu04556	0tu04557	0tu04558
##	CSI002	0	5.448775e-05	0	0.000000e+00	0	0
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI034	0	1.894908e-05	0	0.000000e+00	0	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	0	0.000000e+00	0	7.837144e-05	0	0
##	CSI066	0	0.000000e+00	0	0.000000e+00	0	0
##		0tu04559	0tu04560	0tu04561	0tu04562	0tu04563	0tu04564
##	CSI002	0	0	0.000000e+00	0	4.086581e-05	1.362194e-05
##	CSI013	0	0	0.000000e+00	0	3.195807e-05	3.195807e-05
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI034	0	0	0.000000e+00	0	1.894908e-05	9.474542e-05

##	CSI045	0	0	3.265093e-05	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	7.837144e-05	0	0.000000e+00	1.959286e-05	
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##		0tu04565	0tu04566	0tu04567	0tu04568	0tu04569	0tu04570	0tu04571
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu04572	0tu04573	0tu04574	0tu04575	0tu04576	0tu04577	0tu04578
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu04579	0tu04580	0tu04581	0tu04582	0tu04583	0tu04584	
##	CSI002	0	0	0.0000000000	0	0	0.000000e+00	
##	CSI013	0	0	0.0000000000	0	0	0.000000e+00	
##	CSI023	0	0	0.0000000000	0	0	0.000000e+00	
##	CSI034	0	0	0.0000000000	0	0	3.789817e-05	
##	CSI045	0	0	0.0000000000	0	0	0.000000e+00	
##	CSI056	0	0	0.0001175572	0	0	0.000000e+00	
##	CSI066	0	0	0.0000000000	0	0	0.000000e+00	
##		0tu04585	0tu04586	0tu04587	0tu04588	0tu04589	0tu04590	
##	CSI002	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI013	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI023	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI034	0	0.000000e+00	0	0	0	1.894908e-05	
##	CSI045	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI056	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI066	0	0.000000e+00	0	0	0	0.000000e+00	
##		0tu04591	0tu04592	0tu04593	0tu04594	0tu04595	0tu04596	
##	CSI002	0.000000e+00	0	0.000000e+00	0	6.810968e-05	0	
##	CSI013	6.391614e-05	0	0.000000e+00	0	9.587421e-05	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI034	1.894908e-05	0	0.000000e+00	0	3.789817e-05	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0	5.877858e-05	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##		0tu04597	0tu04598	0tu04599	0tu04600	0tu04601	0tu04602	
##	CSI002	0	0	0	0	0.000000e+00	0	
##	CSI013	0	0	0	0	0.000000e+00	0	
##	CSI023	0	0	0	0	8.164098e-05	0	
##	CSI034	0	0	0	0	5.684725e-05	0	
##	CSI045	0	0	0	0	0.000000e+00	0	
##	CSI056	0	0	0	0	0.000000e+00	0	
##	CSI066	0	0	0	0	0.000000e+00	0	
##		0tu04603	0tu04604	0tu04605	0tu04606	0tu04607	0tu04608	
##	CSI002	2.724387e-05	0	0	0.000000e+00	0	0	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0	

##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI034	1.894908e-05	0	0	0.000000e+00	0	0	
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0	
##		0tu04609	0tu04610	0tu04611	0tu04612	0tu04613	0tu04614	0tu04615
##	CSI002	0	0	0	0	0	0	1.362194e-05
##	CSI013	0	0	0	0	0	0	6.391614e-05
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	3.789817e-05
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu04616	0tu04617	0tu04618	0tu04619	0tu04620	0tu04621	
##	CSI002	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI013	0	1.597904e-04	0.000000e+00	0	0	0	
##	CSI023	0	0.000000e+00	6.123074e-05	0	0	0	
##	CSI034	0	1.894908e-05	3.789817e-05	0	0	0	
##	CSI045	0	0.000000e+00	3.265093e-05	0	0	0	
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0	
##		0tu04622	0tu04623	0tu04624	0tu04625	0tu04626	0tu04627	
##	CSI002	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##	CSI034	0.000000e+00	0	0	0.000000e+00	7.579634e-05	0	
##	CSI045	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0	1.959286e-05	0.000000e+00	0	
##	CSI066	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0	
##		0tu04628	0tu04629	0tu04630	0tu04631	0tu04632	0tu04633	0tu04634
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	8.164098e-05	0	0	0	0
##	CSI034	0	0	7.579634e-05	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu04635	0tu04636	0tu04637	0tu04638	0tu04639	0tu04640	
##	CSI002	0	0	0.000000e+00	1.362194e-05	0	0.000000e+00	
##	CSI013	0	0	9.587421e-05	0.000000e+00	0	0.000000e+00	
##	CSI023	0	0	0.000000e+00	2.041025e-05	0	0.000000e+00	
##	CSI034	0	0	0.000000e+00	1.894908e-05	0	0.000000e+00	
##	CSI045	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI056	0	0	7.837144e-05	0.000000e+00	0	0.000000e+00	
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##		0tu04641	0tu04642	0tu04643	0tu04644	0tu04645	0tu04646	
##	CSI002	0.0000000000	0.000000e+00	0	0.000000e+00	0	0	
##	CSI013	0.0000000000	0.000000e+00	0	6.391614e-05	0	0	
##	CSI023	0.0000000000	0.000000e+00	0	0.000000e+00	0	0	
##	CSI034	0.0000000000	5.684725e-05	0	0.000000e+00	0	0	
##	CSI045	0.0000000000	0.000000e+00	0	0.000000e+00	0	0	
##	CSI056	0.0000000000	0.000000e+00	0	0.000000e+00	0	0	
##	CSI066	0.0000000000	0.000000e+00	0	0.000000e+00	0	0	
##		0tu04647	0tu04648	0tu04649	0tu04650	0tu04651		

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## CSI002 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI013 6.391614e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00 8.164098e-05 0.000000e+00
## CSI034 1.894908e-05 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI045 0.000000e+00 0.000000e+00 3.265093e-05 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00 0.000000e+00 1.959286e-05 0.000000e+00 0.000000e+00
## CSI066 0.000000e+00 1.916847e-05 0.000000e+00 0.000000e+00 1.916847e-05
##      0tu04652 0tu04653      0tu04654 0tu04655      0tu04656 0tu04657
## CSI002 0.000000e+00      0 1.362194e-05      0 0.000000e+00      0
## CSI013 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI023 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI034 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI045 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI056 0.000000e+00      0 0.000000e+00      0 0.000000e+00      0
## CSI066 3.833694e-05      0 0.000000e+00      0 0.000000e+00      0
##      0tu04658      0tu04659 0tu04660 0tu04661 0tu04662 0tu04663 0tu04664
## CSI002      0 0.000000e+00      0      0      0      0      0
## CSI013      0 0.000000e+00      0      0      0      0      0
## CSI023      0 0.000000e+00      0      0      0      0      0
## CSI034      0 1.894908e-05      0      0      0      0      0
## CSI045      0 0.000000e+00      0      0      0      0      0
## CSI056      0 1.959286e-05      0      0      0      0      0
## CSI066      0 0.000000e+00      0      0      0      0      0
##      0tu04665 0tu04666 0tu04667 0tu04668 0tu04669 0tu04670 0tu04671
## CSI002 4.086581e-05      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 2.842363e-04      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu04672 0tu04673 0tu04674 0tu04675 0tu04676 0tu04677 0tu04678
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0      0
## CSI045 3.265093e-05      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 7.667389e-05      0      0      0      0      0      0
##      0tu04679 0tu04680      0tu04681      0tu04682 0tu04683 0tu04684
## CSI002 0.0000000000      0 2.724387e-05 1.362194e-05      0      0
## CSI013 0.0000000000      0 2.237065e-04 3.195807e-05      0      0
## CSI023 0.0000000000      0 0.000000e+00 0.000000e+00      0      0
## CSI034 0.0000000000      0 7.579634e-05 5.684725e-05      0      0
## CSI045 0.0000000000      0 0.000000e+00 0.000000e+00      0      0
## CSI056 0.0000000000      0 0.000000e+00 1.959286e-05      0      0
## CSI066 0.0000000000      0 0.000000e+00 0.000000e+00      0      0
##      0tu04685      0tu04686      0tu04687 0tu04688      0tu04689
## CSI002 0.000000e+00 0.000000e+00 1.362194e-05      0 0.0000000000
## CSI013 0.000000e+00 0.000000e+00 0.000000e+00      0 0.0000000000
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00      0 0.0000000000
## CSI034 0.000000e+00 5.684725e-05 5.684725e-05      0 0.0000000000
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00      0 0.0000000000
## CSI056 0.000000e+00 0.000000e+00 0.000000e+00      0 0.0000000000

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## CSI066 0.000000e+00 0.000000e+00 0.000000e+00 0 0.0000000000
##      0tu04690 0tu04691 0tu04692 0tu04693 0tu04694 0tu04695 0tu04696
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu04697 0tu04698      0tu04699      0tu04700      0tu04701
## CSI002 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI013 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI023 0.000000e+00      0 2.041025e-05 0.000000e+00 0.000000e+00
## CSI034 1.894908e-05      0 3.789817e-05 0.000000e+00 3.789817e-05
## CSI045 0.000000e+00      0 0.000000e+00 0.000000e+00 1.306037e-04
## CSI056 0.000000e+00      0 0.000000e+00 1.959286e-05 5.877858e-05
## CSI066 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
##      0tu04702      0tu04703      0tu04704      0tu04705 0tu04706
## CSI002 0.000000e+00 0.000000e+00 1.362194e-05 0.0000000000      0
## CSI013 0.000000e+00 0.000000e+00 3.195807e-05 0.0002556646      0
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000      0
## CSI034 0.000000e+00 0.000000e+00 1.894908e-05 0.0000000000      0
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000      0
## CSI056 0.000000e+00 0.000000e+00 0.000000e+00 0.0000000000      0
## CSI066 1.916847e-05 1.916847e-05 0.000000e+00 0.0000000000      0
##      0tu04707 0tu04708 0tu04709      0tu04710 0tu04711      0tu04712
## CSI002 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI013 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI023 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI034 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI045 3.265093e-05      0      0 0.000000e+00      0 6.530186e-05
## CSI056 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI066 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
##      0tu04713      0tu04714 0tu04715 0tu04716 0tu04717      0tu04718
## CSI002      0 0.000000e+00      0      0      0 0.000000e+00
## CSI013      0 3.195807e-05      0      0      0 6.391614e-05
## CSI023      0 0.000000e+00      0      0      0 0.000000e+00
## CSI034      0 0.000000e+00      0      0      0 0.000000e+00
## CSI045      0 0.000000e+00      0      0      0 0.000000e+00
## CSI056      0 0.000000e+00      0      0      0 1.175572e-04
## CSI066      0 0.000000e+00      0      0      0 0.000000e+00
##      0tu04719 0tu04720      0tu04721 0tu04722 0tu04723      0tu04724
## CSI002 0.000000e+00      0 1.362194e-05      0      0 0.000000e+00
## CSI013 0.000000e+00      0 3.195807e-05      0      0 0.000000e+00
## CSI023 0.000000e+00      0 0.000000e+00      0      0 2.041025e-05
## CSI034 0.000000e+00      0 5.684725e-05      0      0 0.000000e+00
## CSI045 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI056 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI066 7.667389e-05      0 0.000000e+00      0      0 0.000000e+00
##      0tu04725 0tu04726 0tu04727      0tu04728 0tu04729 0tu04730
## CSI002      0      0      0 0.000000e+00      0      0
## CSI013      0      0      0 0.000000e+00      0      0
## CSI023      0      0      0 0.000000e+00      0      0
## CSI034      0      0      0 9.474542e-05      0      0

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##	CSI045	0	0	0	0.000000e+00	0	0	
##	CSI056	0	0	0	0.000000e+00	0	0	
##	CSI066	0	0	0	0.000000e+00	0	0	
##		0tu04731	0tu04732	0tu04733	0tu04734	0tu04735	0tu04736	
##	CSI002	0.000000e+00	0	0	0	0	0	
##	CSI013	0.000000e+00	0	0	0	0	0	
##	CSI023	0.000000e+00	0	0	0	0	0	
##	CSI034	3.789817e-05	0	0	0	0	0	
##	CSI045	0.000000e+00	0	0	0	0	0	
##	CSI056	0.000000e+00	0	0	0	0	0	
##	CSI066	0.000000e+00	0	0	0	0	0	
##		0tu04737	0tu04738	0tu04739	0tu04740	0tu04741	0tu04742	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI034	1.894908e-05	0.000000e+00	0	0	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI056	0.000000e+00	1.959286e-05	0	0	0	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0	
##		0tu04743	0tu04744	0tu04745	0tu04746	0tu04747	0tu04748	
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI034	5.684725e-05	0	0	0	0.000000e+00	0	
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0	
##		0tu04749	0tu04750	0tu04751	0tu04752	0tu04753	0tu04754	0tu04755
##	CSI002	0	0	0	0	0	8.173162e-05	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	6.530186e-05	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu04756	0tu04757	0tu04758	0tu04759	0tu04760	0tu04761	
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI013	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI034	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0	0	1.959286e-05	0	0.000000e+00	0	
##	CSI066	0	0	0.000000e+00	0	5.750542e-05	0	
##		0tu04762	0tu04763	0tu04764	0tu04765	0tu04766	0tu04767	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI013	0.000000e+00	3.195807e-05	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI034	3.789817e-05	0.000000e+00	0	0	3.789817e-05	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##		0tu04768	0tu04769	0tu04770	0tu04771	0tu04772	0tu04773	
##	CSI002	0.000000e+00	0.000000e+00	0	0	4.086581e-05	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	



##	CSI023	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	0.000000e+00	3.789817e-05	0	0	5.684725e-05	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##		0tu04774	0tu04775	0tu04776	0tu04777	0tu04778	0tu04779
##	CSI002	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI013	0	0	0.000000e+00	0	0	6.391614e-05
##	CSI023	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	0	0	0.000000e+00	0	0	1.894908e-05
##	CSI045	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI056	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI066	0	0	0.000000e+00	0	0	0.000000e+00
##		0tu04780	0tu04781	0tu04782	0tu04783	0tu04784	0tu04785
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu04787	0tu04788	0tu04789	0tu04790	0tu04791	0tu04792
##	CSI002	0	0	0	0	0.0000000000	0
##	CSI013	0	0	0	0	0.0000000000	0
##	CSI023	0	0	0	0	0.0000000000	0
##	CSI034	0	0	0	0	0.0000000000	0
##	CSI045	0	0	0	0	0.0000000000	0
##	CSI056	0	0	0	0	0.0000000000	0
##	CSI066	0	0	0	0	0.0002300217	0
##		0tu04793	0tu04794	0tu04795	0tu04796	0tu04797	0tu04798
##	CSI002	0.0002588168	0.000000e+00	0.000000e+00	0	0	0
##	CSI013	0.0000000000	0.000000e+00	0.000000e+00	0	0	0
##	CSI023	0.0000000000	0.000000e+00	0.000000e+00	0	0	0
##	CSI034	0.0000000000	1.894908e-05	1.894908e-05	0	0	0
##	CSI045	0.0000000000	0.000000e+00	0.000000e+00	0	0	0
##	CSI056	0.0000000000	0.000000e+00	0.000000e+00	0	0	0
##	CSI066	0.0000000000	1.916847e-05	0.000000e+00	0	0	0
##		0tu04799	0tu04800	0tu04801	0tu04802	0tu04803	0tu04804
##	CSI002	0	0.000000e+00	2.724387e-05	0	0	0
##	CSI013	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI034	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0
##		0tu04805	0tu04806	0tu04807	0tu04808	0tu04809	0tu04810
##	CSI002	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI013	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI034	3.789817e-05	0	0	0	0	1.705418e-04
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	0	3.918572e-05
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu04811	0tu04812	0tu04813	0tu04814	0tu04815	

```

## CSI002 1.362194e-05 0.000000e+00 4.086581e-05 1.362194e-05 2.724387e-05
## CSI013 0.000000e+00 3.195807e-05 3.195807e-05 2.556646e-04 1.278323e-04
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034 1.894908e-05 1.894908e-05 3.789817e-05 0.000000e+00 1.894908e-05
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI066 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
##      0tu04816      0tu04817 0tu04818 0tu04819      0tu04820 0tu04821
## CSI002 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI013 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI023 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI034 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI045 9.795279e-05 0.000000e+00      0      0 0.000000e+00      0
## CSI056 0.000000e+00 0.000000e+00      0      0 0.000000e+00      0
## CSI066 7.667389e-05 1.916847e-05      0      0 0.000000e+00      0
##      0tu04822      0tu04823      0tu04824      0tu04825 0tu04826
## CSI002      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI013      0 3.195807e-05 9.587421e-05 3.195807e-05      0
## CSI023      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI034      0 1.136945e-04 3.789817e-05 0.000000e+00      0
## CSI045      0 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI056      0 0.000000e+00 0.000000e+00 1.371500e-04      0
## CSI066      0 0.000000e+00 0.000000e+00 0.000000e+00      0
##      0tu04827      0tu04828      0tu04829      0tu04830 0tu04831
## CSI002 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI013 0.000000e+00 9.587421e-05 0.000000e+00 0.000000e+00      0
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI034 1.894908e-05 7.579634e-05 0.000000e+00 0.000000e+00      0
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI056 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI066 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
##      0tu04832 0tu04833 0tu04834 0tu04835      0tu04836 0tu04837 0tu04838
## CSI002      0      0      0      0 0.000000e+00      0      0
## CSI013      0      0      0      0 0.000000e+00      0      0
## CSI023      0      0      0      0 0.000000e+00      0      0
## CSI034      0      0      0      0 0.000000e+00      0      0
## CSI045      0      0      0      0 0.000000e+00      0      0
## CSI056      0      0      0      0 0.000000e+00      0      0
## CSI066      0      0      0      0 0.000000e+00      0      0
##      0tu04839 0tu04840 0tu04841 0tu04842      0tu04843      0tu04844
## CSI002      0      0      0      0 0.000000e+00 0.000000e+00
## CSI013      0      0      0      0 0.000000e+00 0.000000e+00
## CSI023      0      0      0      0 0.000000e+00 0.000000e+00
## CSI034      0      0      0      0 0.000000e+00 0.000000e+00
## CSI045      0      0      0      0 0.000000e+00 0.000000e+00
## CSI056      0      0      0      0 3.918572e-05 0.000000e+00
## CSI066      0      0      0      0 0.000000e+00 9.584236e-05
##      0tu04845 0tu04846 0tu04847 0tu04848 0tu04849      0tu04850
## CSI002      0      0      0      0      0 1.362194e-05
## CSI013      0      0      0      0      0 0.000000e+00
## CSI023      0      0      0      0      0 0.000000e+00
## CSI034      0      0      0      0      0 0.000000e+00
## CSI045      0      0      0      0      0 0.000000e+00
## CSI056      0      0      0      0      0 0.000000e+00

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##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu04851	0tu04852	0tu04853	0tu04854	0tu04855	
##	CSI002	1.362194e-05	0	0.000000e+00	0	0.000000e+00	
##	CSI013	0.000000e+00	0	6.391614e-05	0	0.000000e+00	
##	CSI023	0.000000e+00	0	0.000000e+00	0	0.000000e+00	
##	CSI034	0.000000e+00	0	0.000000e+00	0	0.000000e+00	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0.000000e+00	
##	CSI056	0.000000e+00	0	3.918572e-05	0	1.959286e-05	
##	CSI066	0.000000e+00	0	0.000000e+00	0	0.000000e+00	
##		0tu04856	0tu04857	0tu04858	0tu04859	0tu04860	0tu04861
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI034	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI056	0.000000e+00	0	0	1.959286e-05	0	0
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0
##		0tu04862	0tu04863	0tu04864	0tu04865	0tu04866	0tu04867
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI066	1.916847e-05	0	0	0	0.000000e+00	0
##		0tu04868	0tu04869	0tu04870	0tu04871	0tu04872	0tu04873
##	CSI002	0.0000000000	0	0.000000e+00	0	0	0
##	CSI013	0.0005432872	0	0.000000e+00	0	0	0
##	CSI023	0.0000000000	0	0.000000e+00	0	0	0
##	CSI034	0.0000000000	0	0.000000e+00	0	0	0
##	CSI045	0.0000000000	0	0.000000e+00	0	0	0
##	CSI056	0.0000000000	0	3.918572e-05	0	0	0
##	CSI066	0.0000000000	0	0.000000e+00	0	0	0
##		0tu04874	0tu04875	0tu04876	0tu04877	0tu04878	0tu04879
##	CSI002	0	1.362194e-05	0.000000e+00	0	0.000000e+00	0
##	CSI013	0	3.195807e-05	0.000000e+00	0	0.000000e+00	0
##	CSI023	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0
##	CSI034	0	1.894908e-05	0.000000e+00	0	0.000000e+00	0
##	CSI045	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0
##	CSI056	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0
##	CSI066	0	0.000000e+00	2.300217e-04	0	0.000000e+00	0
##		0tu04880	0tu04881	0tu04882	0tu04883	0tu04884	0tu04885
##	CSI002	0.000000e+00	0	0	1.362194e-05	0	0.000000e+00
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI034	1.894908e-05	0	0	1.894908e-05	0	0.000000e+00
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##		0tu04886	0tu04887	0tu04888	0tu04889	0tu04890	0tu04891
##	CSI002	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI013	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI034	0	0	0	0.000000e+00	3.600326e-04	0

##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0	0	2.351143e-04	0.000000e+00	0
##	CSI066	0	0	0	9.584236e-05	0.000000e+00	0
##	0tu04892	0tu04893	0tu04894	0tu04895	0tu04896	0tu04897	
##	CSI002	0	0.000000e+00	0	0	1.362194e-05	0
##	CSI013	0	0.000000e+00	0	0	3.195807e-05	0
##	CSI023	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI045	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI056	0	1.959286e-05	0	0	0.000000e+00	0
##	CSI066	0	0.000000e+00	0	0	0.000000e+00	0
##	0tu04898	0tu04899	0tu04900	0tu04901	0tu04902	0tu04903	0tu04904
##	CSI002	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	1.959286e-05	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0
##	0tu04905	0tu04906	0tu04907	0tu04908	0tu04909	0tu04910	0tu04911
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##	0tu04912	0tu04913	0tu04914	0tu04915	0tu04916	0tu04917	0tu04918
##	CSI002	0	0	0	0	2.724387e-05	0
##	CSI013	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	1.341793e-04	0
##	0tu04919	0tu04920	0tu04921	0tu04922	0tu04923	0tu04924	0tu04925
##	CSI002	0	0	4.086581e-05	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	3.789817e-05	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0
##	0tu04926	0tu04927	0tu04928	0tu04929	0tu04930	0tu04931	
##	CSI002	0	0.000000e+00	0	5.448775e-05	0	0
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI023	0	2.041025e-05	0	0.000000e+00	0	0
##	CSI034	0	9.474542e-05	0	0.000000e+00	0	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI066	0	0.000000e+00	0	0.000000e+00	0	0
##	0tu04932	0tu04933	0tu04934	0tu04935	0tu04936	0tu04937	0tu04938
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0

##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu04939	0tu04940	0tu04941	0tu04942	0tu04943	0tu04944	0tu04945
##	CSI002	0	0	0	0	0	0.0000000000	0
##	CSI013	0	0	0	0	0	0.0000000000	0
##	CSI023	0	0	0	0	0	0.0000000000	0
##	CSI034	0	0	0	0	0	0.0000000000	0
##	CSI045	0	0	0	0	0	0.0000000000	0
##	CSI056	0	0	0	0	0	0.0002155215	0
##	CSI066	0	0	0	0	0	0.0000000000	0
##		0tu04946	0tu04947	0tu04948	0tu04949	0tu04950	0tu04951	
##	CSI002	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0	0	2.041025e-05	0.000000e+00	
##	CSI034	0	0	0	0	7.579634e-05	0.000000e+00	
##	CSI045	0	0	0	0	0.000000e+00	3.265093e-05	
##	CSI056	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI066	0	0	0	0	0.000000e+00	0.000000e+00	
##		0tu04952	0tu04953	0tu04954	0tu04955	0tu04956	0tu04957	0tu04958
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu04959	0tu04960	0tu04961	0tu04962	0tu04963	0tu04964	
##	CSI002	0	0	1.362194e-05	0	0	0	
##	CSI013	0	0	6.391614e-05	0	0	0	
##	CSI023	0	0	0.000000e+00	0	0	0	
##	CSI034	0	0	5.684725e-05	0	0	0	
##	CSI045	0	0	0.000000e+00	0	0	0	
##	CSI056	0	0	1.959286e-05	0	0	0	
##	CSI066	0	0	3.833694e-05	0	0	0	
##		0tu04965	0tu04966	0tu04967	0tu04968	0tu04969	0tu04970	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI013	0.000000e+00	3.195807e-05	0	0	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI034	0.000000e+00	3.789817e-05	0	0	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI056	3.918572e-05	0.000000e+00	0	0	0	0	
##	CSI066	1.916847e-05	0.000000e+00	0	0	0	0	
##		0tu04971	0tu04972	0tu04973	0tu04974	0tu04975	0tu04976	
##	CSI002	0	0.000000e+00	0	0	0	0.00000000	
##	CSI013	0	0.000000e+00	0	0	0	0.00000000	
##	CSI023	0	0.000000e+00	0	0	0	0.00000000	
##	CSI034	0	0.000000e+00	0	0	0	0.00000000	
##	CSI045	0	3.265093e-05	0	0	0	0.00000000	
##	CSI056	0	0.000000e+00	0	0	0	0.00013715	
##	CSI066	0	0.000000e+00	0	0	0	0.00000000	
##		0tu04977	0tu04978	0tu04979	0tu04980	0tu04981	0tu04982	

##	CSI002	0.0000000000	0.000000e+00	0	0	0	0.000000e+00
##	CSI013	0.0000000000	0.000000e+00	0	0	0	3.195807e-05
##	CSI023	0.0000000000	0.000000e+00	0	0	0	0.000000e+00
##	CSI034	0.0000000000	9.474542e-05	0	0	0	1.894908e-05
##	CSI045	0.0000000000	0.000000e+00	0	0	0	0.000000e+00
##	CSI056	0.0000000000	0.000000e+00	0	0	0	0.000000e+00
##	CSI066	0.0000000000	0.000000e+00	0	0	0	0.000000e+00
##		0tu04983	0tu04984	0tu04985	0tu04986	0tu04987	0tu04988
##	CSI002	1.362194e-05	0	0.000000e+00	0	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI034	9.474542e-05	0	0.000000e+00	0	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0	1.175572e-04	0	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0
##		0tu04989	0tu04990	0tu04991	0tu04992	0tu04993	0tu04994
##	CSI002	0	0	0	1.362194e-05	0	0
##	CSI013	0	0	0	3.195807e-05	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	3.789817e-05	0	0
##	CSI045	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0.000000e+00	0	0
##		0tu04996	0tu04997	0tu04998	0tu04999	0tu05000	0tu05001
##	CSI002	0.000000e+00	0	0.000000e+00	0	0.0000000000	0
##	CSI013	0.000000e+00	0	0.000000e+00	0	0.0000000000	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0.0000000000	0
##	CSI034	5.684725e-05	0	1.894908e-05	0	0.0000000000	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0.0000000000	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0.0002351143	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0.0000000000	0
##		0tu05002	0tu05003	0tu05004	0tu05005	0tu05006	0tu05007
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	1.959286e-05	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu05008	0tu05009	0tu05010	0tu05011	0tu05012	0tu05013
##	CSI002	0.0000000000	0	0.000000e+00	0	0	0
##	CSI013	0.0000000000	0	6.391614e-05	0	0	0
##	CSI023	0.0000000000	0	0.000000e+00	0	0	0
##	CSI034	0.0000000000	0	1.136945e-04	0	0	0
##	CSI045	0.0000000000	0	0.000000e+00	0	0	0
##	CSI056	0.0000000000	0	0.000000e+00	0	0	0
##	CSI066	0.0001341793	0	0.000000e+00	0	0	0
##		0tu05014	0tu05015	0tu05016	0tu05017	0tu05018	
##	CSI002	0	1.362194e-05	0.000000e+00	0	4.086581e-05	
##	CSI013	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI023	0	2.041025e-05	0.000000e+00	0	6.123074e-05	
##	CSI034	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI045	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI056	0	0.000000e+00	1.175572e-04	0	0.000000e+00	

##	CSI066	0	0.000000e+00	1.916847e-05	0	0.000000e+00	
##		0tu05019	0tu05020	0tu05021	0tu05022	0tu05023	
##	CSI002	0.000000e+00	0	0.000000e+00	0.000000e+00	8.173162e-05	
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI034	0.000000e+00	0	0.000000e+00	0.000000e+00	3.789817e-05	
##	CSI045	0.000000e+00	0	3.265093e-05	0.000000e+00	0.000000e+00	
##	CSI056	1.959286e-05	0	5.877858e-05	7.837144e-05	0.000000e+00	
##	CSI066	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##		0tu05024	0tu05025	0tu05026	0tu05027	0tu05028	0tu05029
##	CSI002	4.086581e-05	2.724387e-05	0	0.000000e+00	0	0
##	CSI013	0.000000e+00	6.391614e-05	0	0.000000e+00	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI034	9.474542e-05	0.000000e+00	0	0.000000e+00	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	0.000000e+00	3.918572e-05	0	1.959286e-05	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##		0tu05030	0tu05031	0tu05032	0tu05033	0tu05034	0tu05035
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu05037	0tu05038	0tu05039	0tu05040	0tu05041	0tu05042
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	6.391614e-05	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0.000000e+00	0	0
##		0tu05044	0tu05045	0tu05046	0tu05047	0tu05048	0tu05049
##	CSI002	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI056	3.918572e-05	0	0.000000e+00	0.000000e+00	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##		0tu05050	0tu05051	0tu05052	0tu05053	0tu05054	0tu05055
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu05057	0tu05058	0tu05059	0tu05060	0tu05061	0tu05062
##	CSI002	2.724387e-05	0	0	0	0	0
##	CSI013	3.195807e-05	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	1.894908e-05	0	0	0	0	0

##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu05063	0tu05064	0tu05065	0tu05066	0tu05067	0tu05068
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI034	0.000000e+00	0	0	1.894908e-05	0	0
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI066	7.667389e-05	0	0	0.000000e+00	0	0
##		0tu05069	0tu05070	0tu05071	0tu05072	0tu05073	0tu05074
##	CSI002	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	1.959286e-05	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0
##		0tu05075	0tu05076	0tu05077	0tu05078	0tu05079	0tu05080
##	CSI002	1.362194e-05	0	0	0	1.362194e-05	0
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI034	1.136945e-04	0	0	0	0.000000e+00	0
##	CSI045	0.000000e+00	0	0	0	1.632546e-04	0
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0
##		0tu05081	0tu05082	0tu05083	0tu05084	0tu05085	0tu05086
##	CSI002	2.724387e-05	0	0.000000e+00	0	0.000000e+00	0
##	CSI013	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI034	5.684725e-05	0	0.000000e+00	0	0.000000e+00	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI056	0.000000e+00	0	7.837144e-05	0	5.877858e-05	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##		0tu05087	0tu05088	0tu05089	0tu05090	0tu05091	0tu05092
##	CSI002	0.0000000000	0.000000e+00	0	0	0.000000e+00	0
##	CSI013	0.0000000000	0.000000e+00	0	0	0.000000e+00	0
##	CSI023	0.0000000000	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	0.0000000000	0.000000e+00	0	0	0.000000e+00	0
##	CSI045	0.0000000000	0.000000e+00	0	0	0.000000e+00	0
##	CSI056	0.0000000000	0.000000e+00	0	0	0.000000e+00	0
##	CSI066	0.0000000000	0.000000e+00	0	0	3.833694e-05	0
##		0tu05093	0tu05094	0tu05095	0tu05096	0tu05097	0tu05098
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	0.000000e+00	1.894908e-05	0	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI066	1.916847e-05	0.000000e+00	0	0	0	0
##		0tu05099	0tu05100	0tu05101	0tu05102	0tu05103	0tu05104
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0



##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu05106	0tu05107	0tu05108	0tu05109	0tu05110	0tu05111	0tu05112
##	CSI002	0	0	0	0	0	0	0.0001089755
##	CSI013	0	0	0	0	0	0	0.0000000000
##	CSI023	0	0	0	0	0	0	0.0000000000
##	CSI034	0	0	0	0	0	0	0.0000000000
##	CSI045	0	0	0	0	0	0	0.0000000000
##	CSI056	0	0	0	0	0	0	0.0000000000
##	CSI066	0	0	0	0	0	0	0.0000000000
##		0tu05113	0tu05114	0tu05115	0tu05116	0tu05117	0tu05118	
##	CSI002	1.362194e-05	0	0	0	0.000000e+00	0.000000e+00	
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI034	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI056	0.000000e+00	0	0	0	5.877858e-05	0.000000e+00	
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##		0tu05119	0tu05120	0tu05121	0tu05122	0tu05123	0tu05124	
##	CSI002	1.362194e-05	2.724387e-05	0	0	0	0.000000e+00	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	5.684725e-05	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	1.959286e-05	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##		0tu05125	0tu05126	0tu05127	0tu05128	0tu05129	0tu05130	
##	CSI002	0	4.086581e-05	0	0.0000000000	0	0	
##	CSI013	0	0.000000e+00	0	0.0000000000	0	0	
##	CSI023	0	0.000000e+00	0	0.0000000000	0	0	
##	CSI034	0	0.000000e+00	0	0.0001894908	0	0	
##	CSI045	0	0.000000e+00	0	0.0000000000	0	0	
##	CSI056	0	0.000000e+00	0	0.0000000000	0	0	
##	CSI066	0	0.000000e+00	0	0.0000000000	0	0	
##		0tu05131	0tu05132	0tu05133	0tu05134	0tu05135	0tu05136	
##	CSI002	0	0	0.000000e+00	0	8.173162e-05	0	
##	CSI013	0	0	0.000000e+00	0	6.391614e-05	0	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI034	0	0	1.894908e-05	0	0.000000e+00	0	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0	
##		0tu05137	0tu05138	0tu05139	0tu05140	0tu05141	0tu05142	0tu05143
##	CSI002	0	0	0	0	0	0	2.724387e-05
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu05144	0tu05145	0tu05146	0tu05147	0tu05148	0tu05149	

##	CSI002	0	0	0	0.000000e+00	0.000000e+00	1.362194e-05
##	CSI013	0	0	0	0.000000e+00	3.195807e-05	0.000000e+00
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI034	0	0	0	5.684725e-05	1.894908e-05	1.894908e-05
##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI056	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	CSI066	0	0	0	0.000000e+00	0.000000e+00	0.000000e+00
##	Otu05150	Otu05151	Otu05152	Otu05153	Otu05154	Otu05155	
##	CSI002	0	0.000000e+00	0	1.362194e-05	0	0
##	CSI013	0	6.391614e-05	0	0.000000e+00	0	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI034	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI066	0	0.000000e+00	0	0.000000e+00	0	0
##	Otu05156	Otu05157	Otu05158	Otu05159	Otu05160	Otu05161	Otu05162
##	CSI002	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0
##	Otu05163	Otu05164	Otu05165	Otu05166	Otu05167	Otu05168	Otu05169
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	3.195807e-05
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	7.579634e-05
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##	Otu05170	Otu05171	Otu05172	Otu05173	Otu05174	Otu05175	
##	CSI002	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI045	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI056	0	0	1.959286e-05	5.877858e-05	0	0
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0
##	Otu05176	Otu05177	Otu05178	Otu05179	Otu05180	Otu05181	Otu05182
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	3.265093e-05	0	0
##	CSI056	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0.000000e+00	0	0
##	Otu05183	Otu05184	Otu05185	Otu05186	Otu05187	Otu05188	Otu05189
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0

## CSI066	0	0	0	0	0	0	0
##	0tu05190	0tu05191	0tu05192	0tu05193	0tu05194	0tu05195	0tu05196
## CSI002	0	0	0.000000e+00	0	0	0	0
## CSI013	0	0	0.000000e+00	0	0	0	0
## CSI023	0	0	0.000000e+00	0	0	0	0
## CSI034	0	0	1.894908e-05	0	0	0	0
## CSI045	0	0	0.000000e+00	0	0	0	0
## CSI056	0	0	0.000000e+00	0	0	0	0
## CSI066	0	0	0.000000e+00	0	0	0	0
##	0tu05197	0tu05198	0tu05199	0tu05200	0tu05201	0tu05202	
## CSI002	0.000000e+00	0	0	0	0	0	
## CSI013	0.000000e+00	0	0	0	0	0	
## CSI023	0.000000e+00	0	0	0	0	0	
## CSI034	0.000000e+00	0	0	0	0	0	
## CSI045	0.000000e+00	0	0	0	0	0	
## CSI056	1.959286e-05	0	0	0	0	0	
## CSI066	0.000000e+00	0	0	0	0	0	
##	0tu05203	0tu05204	0tu05205	0tu05206	0tu05207	0tu05208	
## CSI002	0.000000e+00	0	0	0	0	0	
## CSI013	0.000000e+00	0	0	0	0	0	
## CSI023	0.000000e+00	0	0	0	0	0	
## CSI034	0.000000e+00	0	0	0	0	0	
## CSI045	2.612074e-04	0	0	0	0	0	
## CSI056	1.959286e-05	0	0	0	0	0	
## CSI066	0.000000e+00	0	0	0	0	0	
##	0tu05209	0tu05210	0tu05211	0tu05212	0tu05213	0tu05214	
## CSI002	5.448775e-05	0	0	0	0.000000e+00	0.000000e+00	
## CSI013	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
## CSI023	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
## CSI034	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
## CSI045	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
## CSI056	0.000000e+00	0	0	0	1.175572e-04	0.000000e+00	
## CSI066	0.000000e+00	0	0	0	1.916847e-05	0.000000e+00	
##	0tu05215	0tu05216	0tu05217	0tu05218	0tu05219	0tu05220	
## CSI002	6.810968e-05	0.000000e+00	0	0	0	0	
## CSI013	0.000000e+00	0.000000e+00	0	0	0	0	
## CSI023	0.000000e+00	0.000000e+00	0	0	0	0	
## CSI034	3.789817e-05	1.894908e-05	0	0	0	0	
## CSI045	0.000000e+00	0.000000e+00	0	0	0	0	
## CSI056	0.000000e+00	0.000000e+00	0	0	0	0	
## CSI066	0.000000e+00	0.000000e+00	0	0	0	0	
##	0tu05221	0tu05222	0tu05223	0tu05224	0tu05225	0tu05226	0tu05227
## CSI002	0	0	0.000000e+00	0	0	0	0
## CSI013	0	0	0.000000e+00	0	0	0	0
## CSI023	0	0	0.000000e+00	0	0	0	0
## CSI034	0	0	0.000000e+00	0	0	0	0
## CSI045	0	0	0.000000e+00	0	0	0	0
## CSI056	0	0	5.877858e-05	0	0	0	0
## CSI066	0	0	0.000000e+00	0	0	0	0
##	0tu05228	0tu05229	0tu05230	0tu05231	0tu05232	0tu05233	0tu05234
## CSI002	0	0	0.000000e+00	0	0	0	0
## CSI013	0	0	0.000000e+00	0	0	0	0
## CSI023	0	0	0.000000e+00	0	0	0	0
## CSI034	0	0	0.000000e+00	0	0	0	0

##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu05235	0tu05236	0tu05237	0tu05238	0tu05239	0tu05240	0tu05241
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu05242	0tu05243	0tu05244	0tu05245	0tu05246	0tu05247	0tu05248
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	1.894908e-05	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu05249	0tu05250	0tu05251	0tu05252	0tu05253	0tu05254	
##	CSI002	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI013	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI034	7.579634e-05	0	0	0	0	0.000000e+00	
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00	
##		0tu05255	0tu05256	0tu05257	0tu05258	0tu05259	0tu05260	0tu05261
##	CSI002	4.086581e-05	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu05262	0tu05263	0tu05264	0tu05265	0tu05266	0tu05267	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI034	0.000000e+00	3.789817e-05	0	0	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0	
##		0tu05268	0tu05269	0tu05270	0tu05271	0tu05272	0tu05273	0tu05274
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu05275	0tu05276	0tu05277	0tu05278	0tu05279	0tu05280	
##	CSI002	0	0	0	1.362194e-05	0	0	
##	CSI013	0	0	0	0.000000e+00	0	0	

##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0.000000e+00	0	0
##		0tu05281	0tu05282	0tu05283	0tu05284	0tu05285	0tu05286
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu05287	0tu05288	0tu05289	0tu05290	0tu05291	0tu05292
##	CSI002	0.000000e+00	4.086581e-05	0	0	0	0
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI045	3.265093e-05	0.000000e+00	0	0	0	0
##	CSI056	1.959286e-05	0.000000e+00	0	0	0	0
##	CSI066	1.916847e-05	0.000000e+00	0	0	0	0
##		0tu05293	0tu05294	0tu05295	0tu05296	0tu05297	0tu05298
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	7.579634e-05
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu05300	0tu05301	0tu05302	0tu05303	0tu05304	0tu05305
##	CSI002	0	0	0	1.362194e-05	0	0.000000e+00
##	CSI013	0	0	0	0.000000e+00	0	6.391614e-05
##	CSI023	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI034	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI045	0	0	0	0.000000e+00	0	0.000000e+00
##	CSI056	0	0	0	0.000000e+00	0	3.918572e-05
##	CSI066	0	0	0	0.000000e+00	0	9.584236e-05
##		0tu05306	0tu05307	0tu05308	0tu05309	0tu05310	0tu05311
##	CSI002	2.724387e-05	0	0	0	0.000000e+00	0.000000e+00
##	CSI013	0.000000e+00	0	0	0	6.391614e-05	0.000000e+00
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI034	0.000000e+00	0	0	0	1.894908e-05	3.789817e-05
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##		0tu05312	0tu05313	0tu05314	0tu05315	0tu05316	0tu05317
##	CSI002	0	0.000000e+00	0	2.724387e-05	6.810968e-05	0
##	CSI013	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI034	0	7.579634e-05	0	3.789817e-05	5.684725e-05	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI066	0	0.000000e+00	0	3.833694e-05	0.000000e+00	0
##		0tu05318	0tu05319	0tu05320	0tu05321	0tu05322	0tu05323
##							0tu05324

##	CSI002	0	0	0	0	0	0 0.000000e+00
##	CSI013	0	0	0	0	0	0 0.000000e+00
##	CSI023	0	0	0	0	0	0 0.000000e+00
##	CSI034	0	0	0	0	0	0 3.789817e-05
##	CSI045	0	0	0	0	0	0 0.000000e+00
##	CSI056	0	0	0	0	0	0 0.000000e+00
##	CSI066	0	0	0	0	0	0 0.000000e+00
##		0tu05325	0tu05326	0tu05327	0tu05328	0tu05329	0tu05330
##	CSI002	0.0000000000	0	0	0.0000000000	0.000000e+00	0
##	CSI013	0.0000000000	0	0	0.0000000000	0.000000e+00	0
##	CSI023	0.0000000000	0	0	0.0000000000	0.000000e+00	0
##	CSI034	0.0000000000	0	0	0.0000000000	1.894908e-05	0
##	CSI045	0.0000000000	0	0	0.0000000000	0.000000e+00	0
##	CSI056	0.0001763357	0	0	0.0001175572	0.000000e+00	0
##	CSI066	0.0000000000	0	0	0.0000000000	0.000000e+00	0
##		0tu05331	0tu05332	0tu05333	0tu05334	0tu05335	0tu05336
##	CSI002	0.000000e+00	0	0	0 0.000000e+00		0
##	CSI013	0.000000e+00	0	0	0 0.000000e+00		0
##	CSI023	0.000000e+00	0	0	0 0.000000e+00		0
##	CSI034	7.579634e-05	0	0	0 0.000000e+00		0
##	CSI045	3.265093e-05	0	0	0 0.000000e+00		0
##	CSI056	0.000000e+00	0	0	0 0.000000e+00		0
##	CSI066	0.000000e+00	0	0	0 0.000000e+00		0
##		0tu05337	0tu05338	0tu05339	0tu05340	0tu05341	0tu05342
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu05344	0tu05345	0tu05346	0tu05347	0tu05348	0tu05349
##	CSI002	0	0 2.724387e-05	0.000000e+00		0	0
##	CSI013	0	0 0.000000e+00	0.000000e+00		0	0
##	CSI023	0	0 0.000000e+00	0.000000e+00		0	0
##	CSI034	0	0 0.000000e+00	0.000000e+00		0	0
##	CSI045	0	0 0.000000e+00	0.000000e+00		0	0
##	CSI056	0	0 0.000000e+00	0.000000e+00		0	0
##	CSI066	0	0 0.000000e+00	0.000000e+00		0	0
##		0tu05350	0tu05351	0tu05352	0tu05353	0tu05354	0tu05355
##	CSI002	1.362194e-05	0.000000e+00	0	0	0	0
##	CSI013	0.000000e+00	9.587421e-05	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu05356	0tu05357	0tu05358	0tu05359	0tu05360	0tu05361
##	CSI002	0	0 0.000000e+00	0	0	0	0
##	CSI013	0	0 1.917484e-04	0	0	0	0
##	CSI023	0	0 0.000000e+00	0	0	0	0
##	CSI034	0	0 1.894908e-05	0	0	0	0
##	CSI045	0	0 0.000000e+00	0	0	0	0
##	CSI056	0	0 0.000000e+00	0	0	0	0

##	CSI066	0	0	0.000000e+00	0	0	0
##		0tu05362	0tu05363	0tu05364	0tu05365	0tu05366	0tu05367
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI034	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI056	1.175572e-04	0	0	0	0.000000e+00	0.000000e+00
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##		0tu05368	0tu05369	0tu05370	0tu05371	0tu05372	0tu05373
##	CSI002	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI013	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI023	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI034	0	5.684725e-05	0	0	0	0.000000e+00
##	CSI045	0	0.000000e+00	0	0	0	0.000000e+00
##	CSI056	0	0.000000e+00	0	0	0	1.959286e-05
##	CSI066	0	0.000000e+00	0	0	0	0.000000e+00
##		0tu05374	0tu05375	0tu05376	0tu05377	0tu05378	0tu05379
##	CSI002	0	0.000000e+00	0	2.724387e-05	0.000000e+00	0
##	CSI013	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	2.041025e-05	0
##	CSI034	0	1.894908e-05	0	3.789817e-05	5.684725e-05	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI066	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##		0tu05380	0tu05381	0tu05382	0tu05383	0tu05384	0tu05385
##	CSI002	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	9.474542e-05	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0
##		0tu05387	0tu05388	0tu05389	0tu05390	0tu05391	0tu05392
##	CSI002	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0	0	1.136945e-04	3.789817e-05	0	0
##	CSI045	0	0	9.795279e-05	0.000000e+00	0	0
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0
##		0tu05393	0tu05394	0tu05395	0tu05396	0tu05397	0tu05398
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	9.474542e-05	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu05400	0tu05401	0tu05402	0tu05403	0tu05404	
##	CSI002	0.000000e+00	0	1.362194e-05	0.000000e+00	0	
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0	
##	CSI034	1.894908e-05	0	7.579634e-05	1.894908e-05	0	

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## CSI045 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI056 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI066 0.000000e+00      0 0.000000e+00 3.833694e-05      0
##      0tu05405 0tu05406 0tu05407 0tu05408 0tu05409 0tu05410 0tu05411
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 3.918572e-05      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu05412      0tu05413 0tu05414      0tu05415      0tu05416 0tu05417
## CSI002      0 0.000000e+00      0 0.000000e+00 9.535356e-05      0
## CSI013      0 3.195807e-05      0 0.000000e+00 0.000000e+00      0
## CSI023      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI034      0 0.000000e+00      0 7.579634e-05 0.000000e+00      0
## CSI045      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI056      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI066      0 0.000000e+00      0 0.000000e+00 3.833694e-05      0
##      0tu05418 0tu05419      0tu05420 0tu05421      0tu05422 0tu05423
## CSI002      0      0 8.173162e-05      0 0.000000e+00      0
## CSI013      0      0 0.000000e+00      0 0.000000e+00      0
## CSI023      0      0 0.000000e+00      0 0.000000e+00      0
## CSI034      0      0 0.000000e+00      0 0.000000e+00      0
## CSI045      0      0 0.000000e+00      0 0.000000e+00      0
## CSI056      0      0 0.000000e+00      0 0.000000e+00      0
## CSI066      0      0 0.000000e+00      0 0.000000e+00      0
##      0tu05424 0tu05425 0tu05426 0tu05427      0tu05428 0tu05429 0tu05430
## CSI002      0      0      0      0 0.000000e+00      0      0
## CSI013      0      0      0      0 0.000000e+00      0      0
## CSI023      0      0      0      0 0.000000e+00      0      0
## CSI034      0      0      0      0 1.894908e-05      0      0
## CSI045      0      0      0      0 0.000000e+00      0      0
## CSI056      0      0      0      0 0.000000e+00      0      0
## CSI066      0      0      0      0 0.000000e+00      0      0
##      0tu05431 0tu05432 0tu05433 0tu05434      0tu05435      0tu05436
## CSI002 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI013 6.391614e-05      0      0      0 0.000000e+00 0.000000e+00
## CSI023 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI034 1.894908e-05      0      0      0 5.684725e-05 0.000000e+00
## CSI045 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI066 1.916847e-05      0      0      0 0.000000e+00 3.833694e-05
##      0tu05437 0tu05438      0tu05439 0tu05440 0tu05441 0tu05442 0tu05443
## CSI002      0      0 0.000000e+00      0      0      0      0
## CSI013      0      0 0.000000e+00      0      0      0      0
## CSI023      0      0 0.000000e+00      0      0      0      0
## CSI034      0      0 1.894908e-05      0      0      0      0
## CSI045      0      0 0.000000e+00      0      0      0      0
## CSI056      0      0 0.000000e+00      0      0      0      0
## CSI066      0      0 0.000000e+00      0      0      0      0
##      0tu05444 0tu05445 0tu05446 0tu05447      0tu05448      0tu05449
## CSI002      0      0      0      0 0.000000e+00 1.362194e-05
## CSI013      0      0      0      0 0.000000e+00 0.000000e+00

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##	CSI023	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI034	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI045	0	0	0	0	3.265093e-05	0.000000e+00
##	CSI056	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI066	0	0	0	0	0.000000e+00	0.000000e+00
##		0tu05450	0tu05451	0tu05452	0tu05453	0tu05454	0tu05455
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu05457	0tu05458	0tu05459	0tu05460	0tu05461	0tu05462
##	CSI002	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI013	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI023	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI045	0	0.000000e+00	0	0	6.530186e-05	0
##	CSI056	0	3.918572e-05	0	0	0.000000e+00	0
##	CSI066	0	0.000000e+00	0	0	0.000000e+00	0
##		0tu05463	0tu05464	0tu05465	0tu05466	0tu05467	0tu05468
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	1.597904e-04	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	7.579634e-05	0	0
##	CSI045	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0.000000e+00	0	0
##		0tu05470	0tu05471	0tu05472	0tu05473	0tu05474	0tu05475
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI013	0.000000e+00	0	3.195807e-05	0	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI034	5.684725e-05	0	1.894908e-05	0	0	0
##	CSI045	2.938584e-04	0	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0
##		0tu05476	0tu05477	0tu05478	0tu05479	0tu05480	0tu05481
##	CSI002	0	2.724387e-05	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu05483	0tu05484	0tu05485	0tu05486	0tu05487	0tu05488
##	CSI002	4.086581e-05	0.000000e+00	0	0	0	0
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu05489	0tu05490	0tu05491	0tu05492	0tu05493	0tu05494

##	CSI002	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI013	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI023	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	0	1.894908e-05	0	0	0.000000e+00	0
##	CSI045	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI056	0	0.000000e+00	0	0	1.959286e-05	0
##	CSI066	0	0.000000e+00	0	0	0.000000e+00	0
##		0tu05495	0tu05496	0tu05497	0tu05498	0tu05499	0tu05500
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	1.959286e-05	0	0
##	CSI066	0	0	0	3.833694e-05	0	0
##		0tu05502	0tu05503	0tu05504	0tu05505	0tu05506	0tu05507
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	3.195807e-05	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	7.579634e-05	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu05508	0tu05509	0tu05510	0tu05511	0tu05512	0tu05513
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	1.959286e-05	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu05515	0tu05516	0tu05517	0tu05518	0tu05519	0tu05520
##	CSI002	2.724387e-05	0	0.000000e+00	0	0	0
##	CSI013	3.195807e-05	0	0.000000e+00	0	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI034	1.894908e-05	0	0.000000e+00	0	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0	3.918572e-05	0	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0
##		0tu05521	0tu05522	0tu05523	0tu05524	0tu05525	0tu05526
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu05528	0tu05529	0tu05530	0tu05531	0tu05532	0tu05533
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	6.391614e-05	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	3.789817e-05	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0

## CSI066	0	0.000000e+00	0	0	0	0	0
##	0tu05535	0tu05536	0tu05537	0tu05538	0tu05539	0tu05540	
## CSI002	0.000000e+00	1.362194e-05	0	0	0	0	
## CSI013	0.000000e+00	1.278323e-04	0	0	0	0	
## CSI023	0.000000e+00	0.000000e+00	0	0	0	0	
## CSI034	0.000000e+00	1.894908e-05	0	0	0	0	
## CSI045	0.000000e+00	0.000000e+00	0	0	0	0	
## CSI056	0.000000e+00	0.000000e+00	0	0	0	0	
## CSI066	0.000000e+00	0.000000e+00	0	0	0	0	
##	0tu05541	0tu05542	0tu05543	0tu05544	0tu05545	0tu05546	0tu05547
## CSI002	0	0	0	1.362194e-05	0	0	0
## CSI013	0	0	0	0.000000e+00	0	0	0
## CSI023	0	0	0	0.000000e+00	0	0	0
## CSI034	0	0	0	1.136945e-04	0	0	0
## CSI045	0	0	0	0.000000e+00	0	0	0
## CSI056	0	0	0	0.000000e+00	0	0	0
## CSI066	0	0	0	0.000000e+00	0	0	0
##	0tu05548	0tu05549	0tu05550	0tu05551	0tu05552		
## CSI002	0.000000e+00	1.362194e-05	0.000000e+00	0	0		
## CSI013	0.000000e+00	0.000000e+00	0.000000e+00	0	0		
## CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0	0		
## CSI034	0.000000e+00	5.684725e-05	0.000000e+00	0	0		
## CSI045	0.000000e+00	0.000000e+00	0.000000e+00	0	0		
## CSI056	1.959286e-05	0.000000e+00	0.000000e+00	0	0		
## CSI066	0.000000e+00	0.000000e+00	0.000000e+00	0	0		
##	0tu05553	0tu05554	0tu05555	0tu05556	0tu05557	0tu05558	0tu05559
## CSI002	0.000000e+00	0	0	0	0	0	0
## CSI013	0.000000e+00	0	0	0	0	0	0
## CSI023	0.000000e+00	0	0	0	0	0	0
## CSI034	0.000000e+00	0	0	0	0	0	0
## CSI045	0.000000e+00	0	0	0	0	0	0
## CSI056	0.000000e+00	0	0	0	0	0	0
## CSI066	1.916847e-05	0	0	0	0	0	0
##	0tu05560	0tu05561	0tu05562	0tu05563	0tu05564	0tu05565	
## CSI002	0	0.000000e+00	0	0	0.000000e+00	0	
## CSI013	0	0.000000e+00	0	0	0.000000e+00	0	
## CSI023	0	0.000000e+00	0	0	0.000000e+00	0	
## CSI034	0	1.326436e-04	0	0	0.000000e+00	0	
## CSI045	0	0.000000e+00	0	0	0.000000e+00	0	
## CSI056	0	0.000000e+00	0	0	0.000000e+00	0	
## CSI066	0	1.916847e-05	0	0	1.916847e-05	0	
##	0tu05566	0tu05567	0tu05568	0tu05569	0tu05570	0tu05571	
## CSI002	0	0	0	0	0	0.0000000000	
## CSI013	0	0	0	0	0	0.0000000000	
## CSI023	0	0	0	0	0	0.0000000000	
## CSI034	0	0	0	0	0	0.0000000000	
## CSI045	0	0	0	0	0	0.0000000000	
## CSI056	0	0	0	0	0	0.0000000000	
## CSI066	0	0	0	0	0	0.0001916847	
##	0tu05572	0tu05573	0tu05574	0tu05575	0tu05576	0tu05577	
## CSI002	0.000000e+00	0	0	0	0	0.000000e+00	
## CSI013	0.000000e+00	0	0	0	0	0.000000e+00	
## CSI023	0.000000e+00	0	0	0	0	0.000000e+00	
## CSI034	0.000000e+00	0	0	0	0	0.000000e+00	

##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00	
##		0tu05578	0tu05579	0tu05580	0tu05581	0tu05582	0tu05583	0tu05584
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu05585	0tu05586	0tu05587	0tu05588	0tu05589	0tu05590	
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI013	9.587421e-05	0	0.000000e+00	0	0	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI034	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0	
##		0tu05591	0tu05592	0tu05593	0tu05594	0tu05595	0tu05596	0tu05597
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu05598	0tu05599	0tu05600	0tu05601	0tu05602	0tu05603	
##	CSI002	0	0	0.0000000000	0.000000e+00	0	0	
##	CSI013	0	0	0.0000000000	0.000000e+00	0	0	
##	CSI023	0	0	0.0000000000	0.000000e+00	0	0	
##	CSI034	0	0	0.0001326436	0.000000e+00	0	0	
##	CSI045	0	0	0.0000000000	0.000000e+00	0	0	
##	CSI056	0	0	0.0000000000	0.000000e+00	0	0	
##	CSI066	0	0	0.0000000000	0.000000e+00	0	0	
##		0tu05604	0tu05605	0tu05606	0tu05607	0tu05608	0tu05609	
##	CSI002	0.0000000000	0	0	0	0	2.724387e-05	
##	CSI013	0.0001278323	0	0	0	0	0.000000e+00	
##	CSI023	0.0000000000	0	0	0	0	0.000000e+00	
##	CSI034	0.0000000000	0	0	0	0	0.000000e+00	
##	CSI045	0.0000000000	0	0	0	0	0.000000e+00	
##	CSI056	0.0000000000	0	0	0	0	0.000000e+00	
##	CSI066	0.0000000000	0	0	0	0	0.000000e+00	
##		0tu05610	0tu05611	0tu05612	0tu05613	0tu05614	0tu05615	0tu05616
##	CSI002	0	0	0	0	0	0	1.225974e-04
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	5.684725e-05
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu05617	0tu05618	0tu05619	0tu05620	0tu05621	0tu05622	
##	CSI002	1.362194e-05	0	0	0	0	0	0.000000e+00
##	CSI013	0.000000e+00	0	0	0	0	0	0.000000e+00

##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI034	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00	
##		Otu05623	Otu05624	Otu05625	Otu05626	Otu05627	Otu05628	
##	CSI002	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI013	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI023	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI034	0	0	0	0.000000e+00	0	1.894908e-05	
##	CSI045	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI056	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI066	0	0	0	5.750542e-05	0	0.000000e+00	
##		Otu05629	Otu05630	Otu05631	Otu05632	Otu05633	Otu05634	
##	CSI002	0	0	0.000000e+00	0	0	0	
##	CSI013	0	0	0.000000e+00	0	0	0	
##	CSI023	0	0	0.000000e+00	0	0	0	
##	CSI034	0	0	0.000000e+00	0	0	0	
##	CSI045	0	0	0.000000e+00	0	0	0	
##	CSI056	0	0	3.918572e-05	0	0	0	
##	CSI066	0	0	0.000000e+00	0	0	0	
##		Otu05635	Otu05636	Otu05637	Otu05638	Otu05639	Otu05640	
##	CSI002	2.724387e-05	0	0.000000e+00	0	0	0	
##	CSI013	9.587421e-05	0	0.000000e+00	0	0	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI034	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI045	3.265093e-05	0	0.000000e+00	0	0	0	
##	CSI056	0.000000e+00	0	3.918572e-05	0	0	0	
##	CSI066	0.000000e+00	0	1.916847e-05	0	0	0	
##		Otu05641	Otu05642	Otu05643	Otu05644	Otu05645	Otu05646	Otu05647
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu05648	Otu05649	Otu05650	Otu05651	Otu05652	Otu05653	
##	CSI002	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0	0	0.000000e+00	2.041025e-05	
##	CSI034	0	0	0	0	1.894908e-05	0.000000e+00	
##	CSI045	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI066	0	0	0	0	0.000000e+00	0.000000e+00	
##		Otu05654	Otu05655	Otu05656	Otu05657	Otu05658	Otu05659	Otu05660
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu05661	Otu05662	Otu05663	Otu05664	Otu05665	Otu05666	Otu05667

##	CSI002	0	0	0 0.000000e+00	0	0	0
##	CSI013	0	0	0 9.587421e-05	0	0	0
##	CSI023	0	0	0 0.000000e+00	0	0	0
##	CSI034	0	0	0 1.894908e-05	0	0	0
##	CSI045	0	0	0 0.000000e+00	0	0	0
##	CSI056	0	0	0 0.000000e+00	0	0	0
##	CSI066	0	0	0 0.000000e+00	0	0	0
##		0tu05668	0tu05669	0tu05670	0tu05671	0tu05672	0tu05673
##	CSI002	0	0	0 4.086581e-05	0	0	0
##	CSI013	0	0	0 0.000000e+00	0	0	0
##	CSI023	0	0	0 0.000000e+00	0	0	0
##	CSI034	0	0	0 0.000000e+00	0	0	0
##	CSI045	0	0	0 0.000000e+00	0	0	0
##	CSI056	0	0	0 0.000000e+00	0	0	0
##	CSI066	0	0	0 0.000000e+00	0	0	0
##		0tu05675	0tu05676	0tu05677	0tu05678	0tu05679	0tu05680
##	CSI002	0	0	0 0.000000e+00	0	0	0
##	CSI013	0	0	0 0.000000e+00	0	0	0
##	CSI023	0	0	0 0.000000e+00	0	0	0
##	CSI034	0	0	0 0.000000e+00	0	0	0
##	CSI045	0	0	0 0.000000e+00	0	0	0
##	CSI056	0	0	0 0.000000e+00	0	0	0
##	CSI066	0	0	0 0.000000e+00	0	0	0
##		0tu05682	0tu05683	0tu05684	0tu05685	0tu05686	0tu05687
##	CSI002	0 4.086581e-05		0 0.000000e+00		0 0.000000e+00	
##	CSI013	0 3.195807e-05		0 0.000000e+00		0 0.000000e+00	
##	CSI023	0 0.000000e+00		0 0.000000e+00		0 2.041025e-05	
##	CSI034	0 1.894908e-05		0 7.579634e-05		0 0.000000e+00	
##	CSI045	0 0.000000e+00		0 0.000000e+00		0 0.000000e+00	
##	CSI056	0 0.000000e+00		0 0.000000e+00		0 0.000000e+00	
##	CSI066	0 0.000000e+00		0 0.000000e+00		0 0.000000e+00	
##		0tu05688	0tu05689	0tu05690	0tu05691	0tu05692	
##	CSI002	2.724387e-05	0.000000e+00	0	0 0.000000e+00		
##	CSI013	0.000000e+00	9.587421e-05	0	0 3.195807e-05		
##	CSI023	0.000000e+00	0.000000e+00	0	0 0.000000e+00		
##	CSI034	0.000000e+00	0.000000e+00	0	0 1.894908e-05		
##	CSI045	0.000000e+00	0.000000e+00	0	0 0.000000e+00		
##	CSI056	0.000000e+00	1.959286e-05	0	0 0.000000e+00		
##	CSI066	0.000000e+00	0.000000e+00	0	0 0.000000e+00		
##		0tu05693	0tu05694	0tu05695	0tu05696	0tu05697	0tu05698
##	CSI002	1.362194e-05	0.0000000000	0	0	0	0
##	CSI013	0.000000e+00	0.0000000000	0	0	0	0
##	CSI023	0.000000e+00	0.0000000000	0	0	0	0
##	CSI034	0.000000e+00	0.0001136945	0	0	0	0
##	CSI045	0.000000e+00	0.0000000000	0	0	0	0
##	CSI056	0.000000e+00	0.0000000000	0	0	0	0
##	CSI066	0.000000e+00	0.0000000000	0	0	0	0
##		0tu05699	0tu05700	0tu05701	0tu05702	0tu05703	0tu05704
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI013	0.000000e+00	3.195807e-05	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	1.894908e-05	0.000000e+00	0	0	0	0
##	CSI045	9.795279e-05	0.000000e+00	0	0	0	0
##	CSI056	3.918572e-05	3.918572e-05	0	0	0	0

```

## CSI066 1.916847e-05 0.000000e+00 0 0 0 0
##      0tu05705 0tu05706      0tu05707 0tu05708      0tu05709 0tu05710
## CSI002 0.000000e+00 0 0.000000e+00 0 0.000000e+00 0
## CSI013 3.195807e-05 0 0.000000e+00 0 3.195807e-05 0
## CSI023 0.000000e+00 0 0.000000e+00 0 0.000000e+00 0
## CSI034 0.000000e+00 0 1.894908e-05 0 0.000000e+00 0
## CSI045 0.000000e+00 0 0.000000e+00 0 0.000000e+00 0
## CSI056 0.000000e+00 0 0.000000e+00 0 0.000000e+00 0
## CSI066 0.000000e+00 0 0.000000e+00 0 0.000000e+00 0
##      0tu05711      0tu05712 0tu05713 0tu05714 0tu05715 0tu05716
## CSI002 0 0.000000e+00 0 0 0 0
## CSI013 0 0.000000e+00 0 0 0 0
## CSI023 0 0.000000e+00 0 0 0 0
## CSI034 0 0.000000e+00 0 0 0 0
## CSI045 0 0.000000e+00 0 0 0 0
## CSI056 0 0.000000e+00 0 0 0 0
## CSI066 0 3.833694e-05 0 0 0 0
##      0tu05717 0tu05718 0tu05719      0tu05720 0tu05721 0tu05722
## CSI002 2.724387e-05 0 0 1.362194e-05 0 0
## CSI013 0.000000e+00 0 0 0.000000e+00 0 0
## CSI023 2.041025e-05 0 0 0.000000e+00 0 0
## CSI034 0.000000e+00 0 0 0.000000e+00 0 0
## CSI045 3.265093e-05 0 0 0.000000e+00 0 0
## CSI056 0.000000e+00 0 0 0.000000e+00 0 0
## CSI066 0.000000e+00 0 0 0.000000e+00 0 0
##      0tu05723 0tu05724 0tu05725 0tu05726 0tu05727      0tu05728 0tu05729
## CSI002 0 0 0 0 0 0 0.000000e+00 0
## CSI013 0 0 0 0 0 0 0.000000e+00 0
## CSI023 0 0 0 0 0 0 0.000000e+00 0
## CSI034 0 0 0 0 0 0 1.894908e-05 0
## CSI045 0 0 0 0 0 0 0.000000e+00 0
## CSI056 0 0 0 0 0 0 0.000000e+00 0
## CSI066 0 0 0 0 0 0 0.000000e+00 0
##      0tu05730 0tu05731      0tu05732 0tu05733      0tu05734      0tu05735
## CSI002 0 0 0.000000e+00 0 0.000000e+00 1.362194e-05
## CSI013 0 0 2.876226e-04 0 0.000000e+00 0.000000e+00
## CSI023 0 0 0.000000e+00 0 0.000000e+00 0.000000e+00
## CSI034 0 0 0.000000e+00 0 3.789817e-05 0.000000e+00
## CSI045 0 0 0.000000e+00 0 0.000000e+00 0.000000e+00
## CSI056 0 0 0.000000e+00 0 0.000000e+00 0.000000e+00
## CSI066 0 0 0.000000e+00 0 0.000000e+00 0.000000e+00
##      0tu05736 0tu05737 0tu05738 0tu05739 0tu05740 0tu05741 0tu05742
## CSI002 1.362194e-05 0 0 0 0 0 0
## CSI013 0.000000e+00 0 0 0 0 0 0
## CSI023 2.041025e-05 0 0 0 0 0 0
## CSI034 3.789817e-05 0 0 0 0 0 0
## CSI045 0.000000e+00 0 0 0 0 0 0
## CSI056 0.000000e+00 0 0 0 0 0 0
## CSI066 0.000000e+00 0 0 0 0 0 0
##      0tu05743 0tu05744 0tu05745      0tu05746      0tu05747 0tu05748
## CSI002 0 0 0 1.362194e-05 0.000000e+00 0
## CSI013 0 0 0 3.195807e-05 6.391614e-05 0
## CSI023 0 0 0 0.000000e+00 0.000000e+00 0
## CSI034 0 0 0 1.894908e-05 0.000000e+00 0

```

##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0	0	0.000000e+00	5.877858e-05	0
##	CSI066	0	0	0	0.000000e+00	0.000000e+00	0
##		0tu05749	0tu05750	0tu05751	0tu05752	0tu05753	0tu05754
##	CSI002	0	0	0.000000e+00	0	1.362194e-05	1.362194e-05
##	CSI013	0	0	0.000000e+00	0	3.195807e-05	3.195807e-05
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI034	0	0	1.894908e-05	0	0.000000e+00	0.000000e+00
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	3.833694e-05
##		0tu05755	0tu05756	0tu05757	0tu05758	0tu05759	0tu05760
##	CSI002	4.086581e-05	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu05762	0tu05763	0tu05764	0tu05765	0tu05766	0tu05767
##	CSI002	1.362194e-05	0.000000e+00	1.362194e-05	0	0	0
##	CSI013	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI034	1.894908e-05	0.000000e+00	5.684725e-05	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0
##		0tu05768	0tu05769	0tu05770	0tu05771	0tu05772	0tu05773
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu05775	0tu05776	0tu05777	0tu05778	0tu05779	0tu05780
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	1.959286e-05	0	0	0	0
##	CSI066	0	3.833694e-05	0	0	0	0
##		0tu05781	0tu05782	0tu05783	0tu05784	0tu05785	0tu05786
##	CSI002	1.362194e-05	0	0.000000e+00	0	0	0
##	CSI013	2.556646e-04	0	0.000000e+00	0	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0	5.877858e-05	0	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0
##		0tu05787	0tu05788	0tu05789	0tu05790	0tu05791	0tu05792
##	CSI002	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI013	0.000000e+00	0	0	0	0	9.587421e-05



##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI034	3.789817e-05	0	0	0	0	9.474542e-05
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu05793	0tu05794	0tu05795	0tu05796	0tu05797	0tu05798 0tu05799
##	CSI002	0	0	0	0	0	0.000000e+00 0
##	CSI013	0	0	0	0	0	0.000000e+00 0
##	CSI023	0	0	0	0	0	0.000000e+00 0
##	CSI034	0	0	0	0	0	0.000000e+00 0
##	CSI045	0	0	0	0	0	3.265093e-05 0
##	CSI056	0	0	0	0	0	0.000000e+00 0
##	CSI066	0	0	0	0	0	0.000000e+00 0
##		0tu05800	0tu05801	0tu05802	0tu05803	0tu05804	0tu05805
##	CSI002	5.448775e-05	0	0	0	0.0000000000	0
##	CSI013	0.000000e+00	0	0	0	0.0000000000	0
##	CSI023	0.000000e+00	0	0	0	0.0000000000	0
##	CSI034	0.000000e+00	0	0	0	0.0000000000	0
##	CSI045	0.000000e+00	0	0	0	0.0000000000	0
##	CSI056	0.000000e+00	0	0	0	0.0000000000	0
##	CSI066	0.000000e+00	0	0	0	0.0000000000	0
##		0tu05806	0tu05807	0tu05808	0tu05809	0tu05810	0tu05811
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0	1.894908e-05	0	0	0
##	CSI045	3.265093e-05	0	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0
##		0tu05812	0tu05813	0tu05814	0tu05815	0tu05816	0tu05817
##	CSI002	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0.000000e+00	0	1.894908e-05	1.894908e-05	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI066	5.750542e-05	0	0.000000e+00	0.000000e+00	0	0
##		0tu05818	0tu05819	0tu05820	0tu05821	0tu05822	
##	CSI002	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI013	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI034	0.000000e+00	1.894908e-05	0.000000e+00	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI056	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI066	0.000000e+00	0.000000e+00	1.916847e-05	0	0	
##		0tu05823	0tu05824	0tu05825	0tu05826	0tu05827	0tu05828
##	CSI002	0.0000000000	0	0	0	0	0
##	CSI013	0.0000000000	0	0	0	0	0
##	CSI023	0.0000000000	0	0	0	0	0
##	CSI034	0.0000000000	0	0	0	0	0
##	CSI045	0.0000000000	0	0	0	0	0
##	CSI056	0.0000000000	0	0	0	0	0
##	CSI066	0.0000000000	0	0	0	0	0
##		0tu05829	0tu05830	0tu05831	0tu05832	0tu05833	0tu05834

##	CSI002	4.086581e-05	0	2.724387e-05	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	6.391614e-05	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	1.894908e-05	0	1.894908e-05	0.000000e+00	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	5.750542e-05	0	0
##		0tu05835	0tu05836	0tu05837	0tu05838	0tu05839	0tu05840
##	CSI002	0	0	0	0	2.724387e-05	0
##	CSI013	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	3.789817e-05	0
##	CSI045	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0.000000e+00	0
##		0tu05841	0tu05842	0tu05843	0tu05844	0tu05845	0tu05846
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu05848	0tu05849	0tu05850	0tu05851	0tu05852	0tu05853
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	2.041025e-05	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu05855	0tu05856	0tu05857	0tu05858	0tu05859	0tu05860
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu05862	0tu05863	0tu05864	0tu05865	0tu05866	0tu05867
##	CSI002	0	0.000000e+00	0	0.000000e+00	0.0000000000	0
##	CSI013	0	0.000000e+00	0	0.000000e+00	0.0001278323	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	0.0000000000	0
##	CSI034	0	0.000000e+00	0	1.894908e-05	0.0000000000	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0.0000000000	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0.0000000000	0
##	CSI066	0	1.916847e-05	0	0.000000e+00	0.0000000000	0
##		0tu05868	0tu05869	0tu05870	0tu05871	0tu05872	0tu05873
##	CSI002	0	0.000000e+00	0	2.724387e-05	1.362194e-05	0
##	CSI013	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	2.041025e-05	0
##	CSI034	0	0.000000e+00	0	0.000000e+00	1.894908e-05	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0.000000e+00	0

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## CSI066      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
##      0tu05874      0tu05875 0tu05876 0tu05877 0tu05878      0tu05879
## CSI002      0 0.000000e+00      0      0      0 0.000000e+00
## CSI013      0 3.195807e-05      0      0      0 3.195807e-05
## CSI023      0 0.000000e+00      0      0      0 0.000000e+00
## CSI034      0 0.000000e+00      0      0      0 0.000000e+00
## CSI045      0 0.000000e+00      0      0      0 0.000000e+00
## CSI056      0 0.000000e+00      0      0      0 0.000000e+00
## CSI066      0 0.000000e+00      0      0      0 0.000000e+00
##      0tu05880 0tu05881 0tu05882 0tu05883 0tu05884 0tu05885 0tu05886
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu05887 0tu05888 0tu05889 0tu05890      0tu05891 0tu05892 0tu05893
## CSI002      0      0      0      0 0.000000e+00      0      0
## CSI013      0      0      0      0 0.000000e+00      0      0
## CSI023      0      0      0      0 0.000000e+00      0      0
## CSI034      0      0      0      0 0.000000e+00      0      0
## CSI045      0      0      0      0 0.000000e+00      0      0
## CSI056      0      0      0      0 3.918572e-05      0      0
## CSI066      0      0      0      0 0.000000e+00      0      0
##      0tu05894      0tu05895 0tu05896 0tu05897 0tu05898 0tu05899
## CSI002      0 0.000000e+00      0      0      0      0
## CSI013      0 3.195807e-05      0      0      0      0
## CSI023      0 0.000000e+00      0      0      0      0
## CSI034      0 1.894908e-05      0      0      0      0
## CSI045      0 0.000000e+00      0      0      0      0
## CSI056      0 0.000000e+00      0      0      0      0
## CSI066      0 0.000000e+00      0      0      0      0
##      0tu05900 0tu05901 0tu05902 0tu05903 0tu05904 0tu05905
## CSI002 0.000000e+00      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0
## CSI056 1.959286e-05      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0
##      0tu05906 0tu05907 0tu05908 0tu05909 0tu05910      0tu05911
## CSI002 0.000000e+00      0      0      0      0 1.362194e-05
## CSI013 0.000000e+00      0      0      0      0 6.391614e-05
## CSI023 0.000000e+00      0      0      0      0 0.000000e+00
## CSI034 0.000000e+00      0      0      0      0 0.000000e+00
## CSI045 0.000000e+00      0      0      0      0 0.000000e+00
## CSI056 0.000000e+00      0      0      0      0 0.000000e+00
## CSI066 0.000000e+00      0      0      0      0 0.000000e+00
##      0tu05912      0tu05913      0tu05914      0tu05915      0tu05916
## CSI002      0 1.362194e-05 0.000000e+00 0.000000e+00 4.086581e-05
## CSI013      0 3.195807e-05 0.000000e+00 0.000000e+00 3.195807e-05
## CSI023      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034      0 5.684725e-05 3.789817e-05 0.000000e+00 0.000000e+00

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## CSI045      0 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00
## CSI056      0 0.000000e+00 0.000000e+00 3.918572e-05 0.000000e+00
## CSI066      0 0.000000e+00 0.000000e+00 1.916847e-05 0.000000e+00
##      0tu05917      0tu05918      0tu05919 0tu05920 0tu05921      0tu05922
## CSI002      0 0.000000e+00 2.724387e-05      0      0 0.000000e+00
## CSI013      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI023      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI034      0 1.894908e-05 0.000000e+00      0      0 0.000000e+00
## CSI045      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI056      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI066      0 0.000000e+00 0.000000e+00      0      0 3.833694e-05
##      0tu05923 0tu05924 0tu05925 0tu05926 0tu05927 0tu05928 0tu05929
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu05930 0tu05931      0tu05932 0tu05933      0tu05934 0tu05935
## CSI002      0      0 0.000000e+00      0 0.000000e+00      0
## CSI013      0      0 0.000000e+00      0 0.000000e+00      0
## CSI023      0      0 0.000000e+00      0 0.000000e+00      0
## CSI034      0      0 0.000000e+00      0 0.000000e+00      0
## CSI045      0      0 0.000000e+00      0 0.000000e+00      0
## CSI056      0      0 0.000000e+00      0 0.000000e+00      0
## CSI066      0      0 0.000000e+00      0 1.916847e-05      0
##      0tu05936 0tu05937 0tu05938      0tu05939 0tu05940 0tu05941
## CSI002      0      0      0 0.000000e+00      0      0
## CSI013      0      0      0 3.195807e-05      0      0
## CSI023      0      0      0 2.041025e-05      0      0
## CSI034      0      0      0 0.000000e+00      0      0
## CSI045      0      0      0 0.000000e+00      0      0
## CSI056      0      0      0 0.000000e+00      0      0
## CSI066      0      0      0 0.000000e+00      0      0
##      0tu05942 0tu05943 0tu05944 0tu05945 0tu05946      0tu05947
## CSI002 0.000000e+00      0      0      0      0 0.000000e+00
## CSI013 0.000000e+00      0      0      0      0 0.000000e+00
## CSI023 0.000000e+00      0      0      0      0 0.000000e+00
## CSI034 1.894908e-05      0      0      0      0 0.000000e+00
## CSI045 0.000000e+00      0      0      0      0 0.000000e+00
## CSI056 0.000000e+00      0      0      0      0 1.567429e-04
## CSI066 0.000000e+00      0      0      0      0 0.000000e+00
##      0tu05948      0tu05949 0tu05950 0tu05951 0tu05952 0tu05953
## CSI002 0.000000e+00 0.0000000000      0      0      0      0
## CSI013 6.391614e-05 0.0000000000      0      0      0      0
## CSI023 0.000000e+00 0.0000000000      0      0      0      0
## CSI034 0.000000e+00 0.0000000000      0      0      0      0
## CSI045 0.000000e+00 0.0000000000      0      0      0      0
## CSI056 0.000000e+00 0.0000000000      0      0      0      0
## CSI066 0.000000e+00 0.0000000000      0      0      0      0
##      0tu05954      0tu05955      0tu05956 0tu05957 0tu05958 0tu05959
## CSI002      0 0.0000000000 0.000000e+00      0      0      0
## CSI013      0 0.0000000000 0.000000e+00      0      0      0

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## CSI023      0 0.0000000000 0.000000e+00      0      0      0
## CSI034      0 0.0000000000 0.000000e+00      0      0      0
## CSI045      0 0.0000000000 0.000000e+00      0      0      0
## CSI056      0 0.0001175572 0.000000e+00      0      0      0
## CSI066      0 0.0000000000 3.833694e-05      0      0      0
##      0tu05960 0tu05961 0tu05962 0tu05963      0tu05964      0tu05965
## CSI002      0      0      0      0 0.000000e+00 0.000000e+00
## CSI013      0      0      0      0 0.000000e+00 0.000000e+00
## CSI023      0      0      0      0 0.000000e+00 0.000000e+00
## CSI034      0      0      0      0 0.000000e+00 0.000000e+00
## CSI045      0      0      0      0 0.000000e+00 0.000000e+00
## CSI056      0      0      0      0 0.000000e+00 0.000000e+00
## CSI066      0      0      0      0 0.000000e+00 0.000000e+00
##      0tu05966 0tu05967 0tu05968 0tu05969 0tu05970 0tu05971 0tu05972
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu05973 0tu05974      0tu05975 0tu05976      0tu05977 0tu05978
## CSI002      0      0 0.0000000000      0 0.000000e+00      0
## CSI013      0      0 0.0000000000      0 0.000000e+00      0
## CSI023      0      0 0.0000000000      0 0.000000e+00      0
## CSI034      0      0 0.0000000000      0 1.894908e-05      0
## CSI045      0      0 0.0000000000      0 0.000000e+00      0
## CSI056      0      0 0.0000000000      0 0.000000e+00      0
## CSI066      0      0 0.0000000000      0 0.000000e+00      0
##      0tu05979      0tu05980 0tu05981      0tu05982      0tu05983
## CSI002      0 2.724387e-05      0 0.0000000000 0.000000e+00
## CSI013      0 0.000000e+00      0 0.0000000000 0.000000e+00
## CSI023      0 0.000000e+00      0 0.0000000000 0.000000e+00
## CSI034      0 0.000000e+00      0 0.0000000000 0.000000e+00
## CSI045      0 0.000000e+00      0 0.0000000000 1.959056e-04
## CSI056      0 0.000000e+00      0 0.0000000000 0.000000e+00
## CSI066      0 0.000000e+00      0 0.0000000000 0.000000e+00
##      0tu05984 0tu05985 0tu05986 0tu05987      0tu05988      0tu05989
## CSI002 0.000000e+00      0      0      0 0.000000e+00 0.00000000
## CSI013 0.000000e+00      0      0      0 3.195807e-05 0.00000000
## CSI023 0.000000e+00      0      0      0 0.000000e+00 0.00000000
## CSI034 0.000000e+00      0      0      0 0.000000e+00 0.00000000
## CSI045 0.000000e+00      0      0      0 0.000000e+00 0.00000000
## CSI056 0.000000e+00      0      0      0 0.000000e+00 0.00013715
## CSI066 0.000000e+00      0      0      0 0.000000e+00 0.00000000
##      0tu05990 0tu05991 0tu05992      0tu05993 0tu05994 0tu05995
## CSI002      0      0      0 6.810968e-05      0      0
## CSI013      0      0      0 0.000000e+00      0      0
## CSI023      0      0      0 0.000000e+00      0      0
## CSI034      0      0      0 1.894908e-05      0      0
## CSI045      0      0      0 0.000000e+00      0      0
## CSI056      0      0      0 0.000000e+00      0      0
## CSI066      0      0      0 0.000000e+00      0      0
##      0tu05996      0tu05997 0tu05998 0tu05999 0tu06000 0tu06001

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##	CSI002	0.000000e+00	1.362194e-05	0	0	0	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI034	0.000000e+00	9.474542e-05	0	0	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0	
##		0tu06002	0tu06003	0tu06004	0tu06005	0tu06006	0tu06007	0tu06008
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu06009	0tu06010	0tu06011	0tu06012	0tu06013	0tu06014	
##	CSI002	0	0	0	0.000000e+00	0	6.810968e-05	
##	CSI013	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI023	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI034	0	0	0	0.000000e+00	0	3.789817e-05	
##	CSI045	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI056	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI066	0	0	0	0.000000e+00	0	0.000000e+00	
##		0tu06015	0tu06016	0tu06017	0tu06018	0tu06019	0tu06020	
##	CSI002	0	0	0.000000e+00	0	0	0	
##	CSI013	0	0	0.000000e+00	0	0	0	
##	CSI023	0	0	0.000000e+00	0	0	0	
##	CSI034	0	0	0.000000e+00	0	0	0	
##	CSI045	0	0	0.000000e+00	0	0	0	
##	CSI056	0	0	5.877858e-05	0	0	0	
##	CSI066	0	0	0.000000e+00	0	0	0	
##		0tu06021	0tu06022	0tu06023	0tu06024	0tu06025	0tu06026	
##	CSI002	2.724387e-05	0.0000000000	0	0.0000000000	0	0	
##	CSI013	6.391614e-05	0.0000000000	0	0.0000000000	0	0	
##	CSI023	0.000000e+00	0.0000000000	0	0.0000000000	0	0	
##	CSI034	0.000000e+00	0.000227389	0	0.0000000000	0	0	
##	CSI045	0.000000e+00	0.0000000000	0	0.0000000000	0	0	
##	CSI056	0.000000e+00	0.0000000000	0	0.0000000000	0	0	
##	CSI066	0.000000e+00	0.0000000000	0	0.0000000000	0	0	
##		0tu06027	0tu06028	0tu06029	0tu06030	0tu06031	0tu06032	
##	CSI002	0	0	0	0	2.724387e-05	0.000000e+00	
##	CSI013	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0	0	2.041025e-05	0.000000e+00	
##	CSI034	0	0	0	0	7.579634e-05	0.000000e+00	
##	CSI045	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI066	0	0	0	0	0.000000e+00	0.000000e+00	
##		0tu06033	0tu06034	0tu06035	0tu06036	0tu06037	0tu06038	
##	CSI002	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI013	0	0	6.391614e-05	0.000000e+00	0	0.000000e+00	
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI034	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00	
##	CSI045	0	0	0.000000e+00	0.000000e+00	0	3.265093e-05	
##	CSI056	0	0	5.877858e-05	0.000000e+00	0	0.000000e+00	

##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##		0tu06039	0tu06040	0tu06041	0tu06042	0tu06043	0tu06044
##	CSI002	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI013	0.000000e+00	0	0	0	0	3.195807e-05
##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI034	1.894908e-05	0	0	0	0	0.000000e+00
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu06045	0tu06046	0tu06047	0tu06048	0tu06049	0tu06050
##	CSI002	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI013	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI034	0	0	0	1.894908e-05	0.000000e+00	0
##	CSI045	0	0	0	0.000000e+00	3.265093e-05	0
##	CSI056	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI066	0	0	0	0.000000e+00	0.000000e+00	0
##		0tu06051	0tu06052	0tu06053	0tu06054	0tu06055	0tu06056
##	CSI002	0.000000e+00	0	0	0.000000e+00	1.362194e-05	0
##	CSI013	3.195807e-05	0	0	3.195807e-05	0.000000e+00	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI034	0.000000e+00	0	0	5.684725e-05	0.000000e+00	0
##	CSI045	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI056	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI066	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##		0tu06057	0tu06058	0tu06059	0tu06060	0tu06061	0tu06062
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI013	0.000000e+00	6.391614e-05	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	0.000000e+00	5.684725e-05	0	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu06063	0tu06064	0tu06065	0tu06066	0tu06067	0tu06068
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu06070	0tu06071	0tu06072	0tu06073	0tu06074	0tu06075
##	CSI002	0	0.0000000000	0	1.362194e-05	0	2.724387e-05
##	CSI013	0	0.0000000000	0	0.000000e+00	0	0.000000e+00
##	CSI023	0	0.0000000000	0	0.000000e+00	0	0.000000e+00
##	CSI034	0	0.0000000000	0	1.894908e-05	0	3.789817e-05
##	CSI045	0	0.0000000000	0	0.000000e+00	0	0.000000e+00
##	CSI056	0	0.0000000000	0	0.000000e+00	0	0.000000e+00
##	CSI066	0	0.0000000000	0	0.000000e+00	0	0.000000e+00
##		0tu06076	0tu06077	0tu06078	0tu06079	0tu06080	0tu06081
##	CSI002	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI013	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI023	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	0	0.000000e+00	0	0	0.000000e+00	0

```

## CSI045      0 0.000000e+00      0      0 0.000000e+00      0
## CSI056      0 0.000000e+00      0      0 0.000000e+00      0
## CSI066      0 0.000000e+00      0      0 0.000000e+00      0
##           0tu06082 0tu06083 0tu06084      0tu06085      0tu06086 0tu06087
## CSI002 0.000000e+00      0      0 0.000000e+00 0.0000000000      0
## CSI013 3.195807e-05      0      0 0.000000e+00 0.0000000000      0
## CSI023 0.000000e+00      0      0 0.000000e+00 0.0000000000      0
## CSI034 0.000000e+00      0      0 0.000000e+00 0.0000000000      0
## CSI045 0.000000e+00      0      0 0.000000e+00 0.0001632546      0
## CSI056 0.000000e+00      0      0 9.79643e-05 0.0000000000      0
## CSI066 0.000000e+00      0      0 0.000000e+00 0.0000000000      0
##           0tu06088 0tu06089 0tu06090 0tu06091      0tu06092 0tu06093
## CSI002      0      0      0      0 0.000000e+00      0
## CSI013      0      0      0      0 0.000000e+00      0
## CSI023      0      0      0      0 0.000000e+00      0
## CSI034      0      0      0      0 0.000000e+00      0
## CSI045      0      0      0      0 0.000000e+00      0
## CSI056      0      0      0      0 0.000000e+00      0
## CSI066      0      0      0      0 0.000000e+00      0
##           0tu06094 0tu06095 0tu06096      0tu06097 0tu06098 0tu06099
## CSI002 0.000000e+00      0      0 0.0000000000      0      0
## CSI013 0.000000e+00      0      0 0.0000000000      0      0
## CSI023 0.000000e+00      0      0 0.0000000000      0      0
## CSI034 1.894908e-05      0      0 0.0001326436      0      0
## CSI045 0.000000e+00      0      0 0.0000000000      0      0
## CSI056 0.000000e+00      0      0 0.0000000000      0      0
## CSI066 0.000000e+00      0      0 0.0000000000      0      0
##           0tu06100 0tu06101 0tu06102      0tu06103 0tu06104      0tu06105
## CSI002 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI013 0.000000e+00      0      0 0.000000e+00      0 3.195807e-05
## CSI023 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI034 0.000000e+00      0      0 1.894908e-05      0 0.000000e+00
## CSI045 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
## CSI056 3.918572e-05      0      0 0.000000e+00      0 0.000000e+00
## CSI066 0.000000e+00      0      0 1.916847e-05      0 0.000000e+00
##           0tu06106      0tu06107 0tu06108 0tu06109 0tu06110 0tu06111
## CSI002      0 0.000000e+00      0      0      0      0
## CSI013      0 0.000000e+00      0      0      0      0
## CSI023      0 0.000000e+00      0      0      0      0
## CSI034      0 0.000000e+00      0      0      0      0
## CSI045      0 3.265093e-05      0      0      0      0
## CSI056      0 3.918572e-05      0      0      0      0
## CSI066      0 0.000000e+00      0      0      0      0
##           0tu06112 0tu06113      0tu06114      0tu06115 0tu06116
## CSI002 1.362194e-05      0 0.000000e+00 0.000000e+00      0
## CSI013 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI034 1.894908e-05      0 0.000000e+00 0.000000e+00      0
## CSI045 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI056 0.000000e+00      0 5.877858e-05 0.000000e+00      0
## CSI066 0.000000e+00      0 0.000000e+00 1.916847e-05      0
##           0tu06117      0tu06118      0tu06119 0tu06120 0tu06121
## CSI002 0.000000e+00 0.000000e+00 0.000000e+00      0      0
## CSI013 0.000000e+00 0.000000e+00 0.000000e+00      0      0

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##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0	0		
##	CSI034	0.000000e+00	1.894908e-05	0.000000e+00	0	0		
##	CSI045	0.000000e+00	0.000000e+00	0.000000e+00	0	0		
##	CSI056	0.000000e+00	0.000000e+00	5.877858e-05	0	0		
##	CSI066	0.000000e+00	0.000000e+00	0.000000e+00	0	0		
##		0tu06122	0tu06123	0tu06124	0tu06125	0tu06126	0tu06127	
##	CSI002	0.000000e+00	0	0	0	0	0	
##	CSI013	3.195807e-05	0	0	0	0	0	
##	CSI023	0.000000e+00	0	0	0	0	0	
##	CSI034	0.000000e+00	0	0	0	0	0	
##	CSI045	0.000000e+00	0	0	0	0	0	
##	CSI056	0.000000e+00	0	0	0	0	0	
##	CSI066	0.000000e+00	0	0	0	0	0	
##		0tu06128	0tu06129	0tu06130	0tu06131	0tu06132	0tu06133	
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00	
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	9.587421e-05	
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00	
##	CSI034	3.789817e-05	0	0.000000e+00	0	0	0.000000e+00	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00	
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00	
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00	
##		0tu06134	0tu06135	0tu06136	0tu06137	0tu06138	0tu06139	
##	CSI002	0	0	1.362194e-05	2.724387e-05	0	0	
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI034	0	0	5.684725e-05	1.136945e-04	0	0	
##	CSI045	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0	
##		0tu06140	0tu06141	0tu06142	0tu06143	0tu06144	0tu06145	0tu06146
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu06147	0tu06148	0tu06149	0tu06150	0tu06151	0tu06152	
##	CSI002	0	0.000000e+00	0	0	0.0000000000	0	
##	CSI013	0	0.000000e+00	0	0	0.0003515388	0	
##	CSI023	0	0.000000e+00	0	0	0.0000000000	0	
##	CSI034	0	0.000000e+00	0	0	0.0000000000	0	
##	CSI045	0	0.000000e+00	0	0	0.0000000000	0	
##	CSI056	0	1.959286e-05	0	0	0.0000000000	0	
##	CSI066	0	0.000000e+00	0	0	0.0000000000	0	
##		0tu06153	0tu06154	0tu06155	0tu06156	0tu06157	0tu06158	
##	CSI002	0	0	0	0.000000e+00	0	0	
##	CSI013	0	0	0	0.000000e+00	0	0	
##	CSI023	0	0	0	0.000000e+00	0	0	
##	CSI034	0	0	0	3.789817e-05	0	0	
##	CSI045	0	0	0	0.000000e+00	0	0	
##	CSI056	0	0	0	0.000000e+00	0	0	
##	CSI066	0	0	0	0.000000e+00	0	0	
##		0tu06159	0tu06160	0tu06161	0tu06162	0tu06163	0tu06164	

##	CSI002	0.000000e+00	0.000000e+00	0	0	1.362194e-05	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	2.041025e-05	0	
##	CSI034	0.000000e+00	0.000000e+00	0	0	1.894908e-05	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	6.530186e-05	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##		0tu06165	0tu06166	0tu06167	0tu06168	0tu06169	0tu06170	
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	1.894908e-05	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0.000000e+00	0	1.959286e-05	0.000000e+00	
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##		0tu06171	0tu06172	0tu06173	0tu06174	0tu06175	0tu06176	0tu06177
##	CSI002	2.724387e-05	0	0	0	0	0	0
##	CSI013	3.195807e-05	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	1.894908e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu06178	0tu06179	0tu06180	0tu06181	0tu06182	0tu06183	
##	CSI002	4.086581e-05	1.362194e-05	0	0.000000e+00	0	0	
##	CSI013	0.000000e+00	3.195807e-05	0	3.195807e-05	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	2.041025e-05	0	0	
##	CSI034	0.000000e+00	0.000000e+00	0	1.894908e-05	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##		0tu06184	0tu06185	0tu06186	0tu06187	0tu06188	0tu06189	0tu06190
##	CSI002	0	0	1.362194e-05	0	0	0	0
##	CSI013	0	0	3.195807e-05	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	9.474542e-05	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu06191	0tu06192	0tu06193	0tu06194	0tu06195	0tu06196	
##	CSI002	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI013	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI034	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI056	0	0	0	0.000000e+00	1.959286e-05	0	
##	CSI066	0	0	0	0.000000e+00	0.000000e+00	0	
##		0tu06197	0tu06198	0tu06199	0tu06200	0tu06201	0tu06202	0tu06203
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0

##	CSI066	0	0	0	0	0	0	0
##		0tu06204	0tu06205	0tu06206	0tu06207	0tu06208	0tu06209	
##	CSI002	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI013	0	0.000000e+00	3.195807e-05	0	0	0	
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI034	0	5.684725e-05	0.000000e+00	0	0	0	
##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0	
##		0tu06210	0tu06211	0tu06212	0tu06213	0tu06214	0tu06215	0tu06216
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	9.474542e-05	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu06217	0tu06218	0tu06219	0tu06220	0tu06221	0tu06222	
##	CSI002	0	0	0	0.000000e+00	0	0	
##	CSI013	0	0	0	0.000000e+00	0	0	
##	CSI023	0	0	0	0.000000e+00	0	0	
##	CSI034	0	0	0	0.000000e+00	0	0	
##	CSI045	0	0	0	0.000000e+00	0	0	
##	CSI056	0	0	0	1.959286e-05	0	0	
##	CSI066	0	0	0	3.833694e-05	0	0	
##		0tu06223	0tu06224	0tu06225	0tu06226	0tu06227	0tu06228	
##	CSI002	0.000000e+00	0	0	0.000000e+00	0.0000000000	0	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0.0000000000	0	
##	CSI023	0.000000e+00	0	0	2.041025e-05	0.0000000000	0	
##	CSI034	1.894908e-05	0	0	3.789817e-05	0.0001136945	0	
##	CSI045	0.000000e+00	0	0	0.000000e+00	0.0000000000	0	
##	CSI056	0.000000e+00	0	0	0.000000e+00	0.0000000000	0	
##	CSI066	0.000000e+00	0	0	0.000000e+00	0.0000000000	0	
##		0tu06229	0tu06230	0tu06231	0tu06232	0tu06233	0tu06234	
##	CSI002	0	0	0.000000e+00	0	0	0	
##	CSI013	0	0	0.000000e+00	0	0	0	
##	CSI023	0	0	0.000000e+00	0	0	0	
##	CSI034	0	0	0.000000e+00	0	0	0	
##	CSI045	0	0	0.000000e+00	0	0	0	
##	CSI056	0	0	0.000000e+00	0	0	0	
##	CSI066	0	0	0.000000e+00	0	0	0	
##		0tu06235	0tu06236	0tu06237	0tu06238	0tu06239	0tu06240	
##	CSI002	4.086581e-05	0	0	0	0	0	
##	CSI013	3.195807e-05	0	0	0	0	0	
##	CSI023	0.000000e+00	0	0	0	0	0	
##	CSI034	1.894908e-05	0	0	0	0	0	
##	CSI045	0.000000e+00	0	0	0	0	0	
##	CSI056	0.000000e+00	0	0	0	0	0	
##	CSI066	0.000000e+00	0	0	0	0	0	
##		0tu06241	0tu06242	0tu06243	0tu06244	0tu06245	0tu06246	0tu06247
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0

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## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu06248 0tu06249 0tu06250 0tu06251 0tu06252 0tu06253 0tu06254
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 1.894908e-05      0      0      0      0      0      0
## CSI045 9.795279e-05      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu06255 0tu06256 0tu06257 0tu06258      0tu06259 0tu06260 0tu06261
## CSI002      0      0      0      0 2.724387e-05      0      0
## CSI013      0      0      0      0 0.000000e+00      0      0
## CSI023      0      0      0      0 0.000000e+00      0      0
## CSI034      0      0      0      0 0.000000e+00      0      0
## CSI045      0      0      0      0 0.000000e+00      0      0
## CSI056      0      0      0      0 0.000000e+00      0      0
## CSI066      0      0      0      0 0.000000e+00      0      0
##      0tu06262 0tu06263      0tu06264 0tu06265 0tu06266 0tu06267
## CSI002 0.000000e+00      0 0.000000e+00      0      0      0
## CSI013 6.391614e-05      0 0.000000e+00      0      0      0
## CSI023 0.000000e+00      0 0.000000e+00      0      0      0
## CSI034 0.000000e+00      0 0.000000e+00      0      0      0
## CSI045 0.000000e+00      0 0.000000e+00      0      0      0
## CSI056 3.918572e-05      0 0.000000e+00      0      0      0
## CSI066 5.750542e-05      0 0.000000e+00      0      0      0
##      0tu06268      0tu06269 0tu06270      0tu06271 0tu06272 0tu06273
## CSI002 0.000000e+00 0.000000e+00      0 5.448775e-05      0      0
## CSI013 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI023 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI034 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI045 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI056 0.000000e+00 0.000000e+00      0 0.000000e+00      0      0
## CSI066 1.916847e-05 0.000000e+00      0 0.000000e+00      0      0
##      0tu06274 0tu06275 0tu06276 0tu06277 0tu06278 0tu06279
## CSI002 0.0000000000      0      0      0      0      0
## CSI013 0.0000000000      0      0      0      0      0
## CSI023 0.0000000000      0      0      0      0      0
## CSI034 0.0000000000      0      0      0      0      0
## CSI045 0.0002612074      0      0      0      0      0
## CSI056 0.0000000000      0      0      0      0      0
## CSI066 0.0000000000      0      0      0      0      0
##      0tu06280      0tu06281      0tu06282      0tu06283 0tu06284
## CSI002 0.000000e+00 0.000000e+00 0.000000e+00 1.362194e-05      0
## CSI013 0.000000e+00 3.195807e-05 0.000000e+00 0.000000e+00      0
## CSI023 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI034 0.000000e+00 0.000000e+00 0.000000e+00 1.894908e-05      0
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI056 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI066 0.000000e+00 0.000000e+00 0.000000e+00 1.916847e-05      0
##      0tu06285 0tu06286 0tu06287 0tu06288 0tu06289 0tu06290 0tu06291
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0

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##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##	0tu06292	0tu06293	0tu06294	0tu06295	0tu06296	0tu06297	
##	CSI002	0	0	1.362194e-05	0.000000e+00	0	0
##	CSI013	0	0	0.000000e+00	3.195807e-05	0	0
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0	0	0.000000e+00	1.894908e-05	0	0
##	CSI045	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0
##	0tu06298	0tu06299	0tu06300	0tu06301	0tu06302	0tu06303	
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##	0tu06304	0tu06305	0tu06306	0tu06307	0tu06308	0tu06309	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI013	9.587421e-05	0.000000e+00	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	6.530186e-05	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0
##	0tu06310	0tu06311	0tu06312	0tu06313	0tu06314	0tu06315	0tu06316
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	3.789817e-05	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##	0tu06317	0tu06318	0tu06319	0tu06320	0tu06321	0tu06322	
##	CSI002	1.362194e-05	0	0.000000e+00	0	0	0
##	CSI013	3.195807e-05	0	3.195807e-05	0	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0
##	0tu06323	0tu06324	0tu06325	0tu06326	0tu06327	0tu06328	0tu06329
##	CSI002	0	0	0	0	1.362194e-05	0
##	CSI013	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	1.326436e-04	0
##	CSI045	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0.000000e+00	0
##	0tu06330	0tu06331	0tu06332	0tu06333	0tu06334	0tu06335	

##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00		
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	9.587421e-05		
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00		
##	CSI034	7.579634e-05	0	0.000000e+00	0	0	3.789817e-05		
##	CSI045	0.000000e+00	0	3.265093e-05	0	0	0.000000e+00		
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00		
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00		
##		0tu06336	0tu06337	0tu06338	0tu06339	0tu06340	0tu06341	0tu06342	
##	CSI002	0	0	0	0.000000e+00	0	0	0	
##	CSI013	0	0	0	0.000000e+00	0	0	0	
##	CSI023	0	0	0	0.000000e+00	0	0	0	
##	CSI034	0	0	0	3.789817e-05	0	0	0	
##	CSI045	0	0	0	0.000000e+00	0	0	0	
##	CSI056	0	0	0	0.000000e+00	0	0	0	
##	CSI066	0	0	0	0.000000e+00	0	0	0	
##		0tu06343	0tu06344	0tu06345	0tu06346	0tu06347		0tu06348	
##	CSI002	0	0	0	0.000000e+00	0	0.000000e+00		
##	CSI013	0	0	0	0.000000e+00	0	1.597904e-04		
##	CSI023	0	0	0	0.000000e+00	0	0.000000e+00		
##	CSI034	0	0	0	0.000000e+00	0	0.000000e+00		
##	CSI045	0	0	0	0.000000e+00	0	3.265093e-05		
##	CSI056	0	0	0	0.000000e+00	0	0.000000e+00		
##	CSI066	0	0	0	1.916847e-05	0	0.000000e+00		
##		0tu06349	0tu06350	0tu06351	0tu06352	0tu06353		0tu06354	0tu06355
##	CSI002	0	0	0	0	0	0.000000e+00	0	
##	CSI013	0	0	0	0	0	0.000000e+00	0	
##	CSI023	0	0	0	0	0	0.000000e+00	0	
##	CSI034	0	0	0	0	0	0.000000e+00	0	
##	CSI045	0	0	0	0	0	0.000000e+00	0	
##	CSI056	0	0	0	0	0	3.918572e-05	0	
##	CSI066	0	0	0	0	0	0.000000e+00	0	
##		0tu06356		0tu06357	0tu06358	0tu06359	0tu06360	0tu06361	0tu06362
##	CSI002	0	0.000000e+00		0	0	0	0	0
##	CSI013	0	0.000000e+00		0	0	0	0	0
##	CSI023	0	0.000000e+00		0	0	0	0	0
##	CSI034	0	0.000000e+00		0	0	0	0	0
##	CSI045	0	0.000000e+00		0	0	0	0	0
##	CSI056	0	0.000000e+00		0	0	0	0	0
##	CSI066	0	0.000000e+00		0	0	0	0	0
##			0tu06363	0tu06364		0tu06365	0tu06366		0tu06367
##	CSI002	0.000000e+00		0	1.362194e-05	0.000000e+00	0.000000e+00		0.000000e+00
##	CSI013	0.000000e+00		0	0.000000e+00	0.000000e+00	0.000000e+00		0.000000e+00
##	CSI023	0.000000e+00		0	0.000000e+00	0.000000e+00	0.000000e+00		0.000000e+00
##	CSI034	3.789817e-05		0	1.894908e-05	0.000000e+00	0.000000e+00		0.000000e+00
##	CSI045	0.000000e+00		0	0.000000e+00	6.530186e-05	0.000000e+00		0.000000e+00
##	CSI056	0.000000e+00		0	0.000000e+00	0.000000e+00	0.000000e+00		0.000000e+00
##	CSI066	0.000000e+00		0	0.000000e+00	0.000000e+00	0.000000e+00		0.000000e+00
##			0tu06368	0tu06369	0tu06370	0tu06371		0tu06372	0tu06373
##	CSI002	0	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0	0	0	0.000000e+00	0.000000e+00	

##	CSI066	0	0	0	0	0.000000e+00	1.916847e-05
##		0tu06374	0tu06375	0tu06376	0tu06377	0tu06378	0tu06379
##	CSI002	0	0	0	0	0	0.0001089755
##	CSI013	0	0	0	0	0	0.0000000000
##	CSI023	0	0	0	0	0	0.0000000000
##	CSI034	0	0	0	0	0	0.0000000000
##	CSI045	0	0	0	0	0	0.0000000000
##	CSI056	0	0	0	0	0	0.0000000000
##	CSI066	0	0	0	0	0	0.0000000000
##		0tu06381	0tu06382	0tu06383	0tu06384	0tu06385	0tu06386
##	CSI002	0.000000e+00	1.362194e-05	0	0	0	0
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	1.894908e-05	3.789817e-05	0	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu06387	0tu06388	0tu06389	0tu06390	0tu06391	0tu06392
##	CSI002	2.724387e-05	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	3.789817e-05	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu06393	0tu06394	0tu06395	0tu06396	0tu06397	0tu06398
##	CSI002	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI013	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI034	7.579634e-05	0	0	0	0	0.000000e+00
##	CSI045	0.000000e+00	0	0	0	0	3.265093e-05
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu06399	0tu06400	0tu06401	0tu06402	0tu06403	0tu06404
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	3.833694e-05	0	0	0	0	0
##		0tu06406	0tu06407	0tu06408	0tu06409	0tu06410	0tu06411
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu06413	0tu06414	0tu06415	0tu06416	0tu06417	0tu06418
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00

##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	5.750542e-05
##	0tu06420	0tu06421	0tu06422	0tu06423	0tu06424	0tu06425		
##	CSI002	0	1.362194e-05	1.362194e-05	0	0.0000000000	0	
##	CSI013	0	0.000000e+00	0.000000e+00	0	0.0000000000	0	
##	CSI023	0	0.000000e+00	0.000000e+00	0	0.0000000000	0	
##	CSI034	0	0.000000e+00	3.789817e-05	0	0.0000000000	0	
##	CSI045	0	0.000000e+00	0.000000e+00	0	0.0000000000	0	
##	CSI056	0	0.000000e+00	0.000000e+00	0	0.0000000000	0	
##	CSI066	0	0.000000e+00	0.000000e+00	0	0.0000000000	0	
##	0tu06426	0tu06427	0tu06428	0tu06429	0tu06430	0tu06431	0tu06432	
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	1.916847e-05	0	0	0	0	0
##	0tu06433	0tu06434	0tu06435	0tu06436	0tu06437	0tu06438	0tu06439	
##	CSI002	1.362194e-05	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##	0tu06440	0tu06441	0tu06442	0tu06443	0tu06444	0tu06445		
##	CSI002	0	0	0.000000e+00	0.0000000000	0	0	
##	CSI013	0	0	0.000000e+00	0.0000000000	0	0	
##	CSI023	0	0	0.000000e+00	0.0000000000	0	0	
##	CSI034	0	0	1.894908e-05	0.0000000000	0	0	
##	CSI045	0	0	0.000000e+00	0.0000000000	0	0	
##	CSI056	0	0	0.000000e+00	0.0000000000	0	0	
##	CSI066	0	0	0.000000e+00	0.0000000000	0	0	
##	0tu06446	0tu06447	0tu06448	0tu06449	0tu06450	0tu06451		
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI013	3.195807e-05	3.195807e-05	0	0	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0	
##	0tu06452	0tu06453	0tu06454	0tu06455	0tu06456	0tu06457	0tu06458	
##	CSI002	0	0	0	0	0	0	2.724387e-05
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##	0tu06459	0tu06460	0tu06461	0tu06462	0tu06463	0tu06464		
##	CSI002	0.000000e+00	0	0	0	0	0	
##	CSI013	0.000000e+00	0	0	0	0	0	



```

## CSI023 0.000000e+00      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0
## CSI066 1.916847e-05      0      0      0      0      0
##      0tu06465 0tu06466 0tu06467 0tu06468      0tu06469      0tu06470
## CSI002 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI013 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI023 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI034 0.000000e+00      0      0      0 5.684725e-05 1.894908e-05
## CSI045 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI066 1.916847e-05      0      0      0 0.000000e+00 0.000000e+00
##      0tu06471      0tu06472 0tu06473 0tu06474 0tu06475 0tu06476
## CSI002      0 2.724387e-05      0      0      0      0
## CSI013      0 0.000000e+00      0      0      0      0
## CSI023      0 0.000000e+00      0      0      0      0
## CSI034      0 0.000000e+00      0      0      0      0
## CSI045      0 0.000000e+00      0      0      0      0
## CSI056      0 0.000000e+00      0      0      0      0
## CSI066      0 0.000000e+00      0      0      0      0
##      0tu06477 0tu06478 0tu06479 0tu06480 0tu06481 0tu06482 0tu06483
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu06484 0tu06485 0tu06486      0tu06487      0tu06488 0tu06489
## CSI002      0      0      0 1.362194e-05 2.724387e-05      0
## CSI013      0      0      0 0.000000e+00 0.000000e+00      0
## CSI023      0      0      0 0.000000e+00 0.000000e+00      0
## CSI034      0      0      0 3.789817e-05 0.000000e+00      0
## CSI045      0      0      0 0.000000e+00 0.000000e+00      0
## CSI056      0      0      0 0.000000e+00 0.000000e+00      0
## CSI066      0      0      0 0.000000e+00 0.000000e+00      0
##      0tu06490 0tu06491      0tu06492 0tu06493 0tu06494      0tu06495
## CSI002 1.362194e-05      0 0.000000e+00      0      0 0.000000e+00
## CSI013 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI023 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI034 5.684725e-05      0 0.000000e+00      0      0 0.000000e+00
## CSI045 0.000000e+00      0 0.000000e+00      0      0 0.000000e+00
## CSI056 1.959286e-05      0 0.000000e+00      0      0 3.918572e-05
## CSI066 0.000000e+00      0 1.916847e-05      0      0 0.000000e+00
##      0tu06496 0tu06497 0tu06498 0tu06499 0tu06500 0tu06501
## CSI002 0.000000e+00      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0
## CSI034 7.579634e-05      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0
##      0tu06502 0tu06503 0tu06504 0tu06505      0tu06506 0tu06507

```

##	CSI002	1.362194e-05	0	0	0	0.000000e+00	0	
##	CSI013	6.391614e-05	0	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI034	1.894908e-05	0	0	0	1.894908e-05	0	
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0	0	1.959286e-05	0	
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0	
##		0tu06508	0tu06509	0tu06510	0tu06511	0tu06512	0tu06513	
##	CSI002	0.000000e+00	0.000000e+00	0	1.362194e-05	0	0	
##	CSI013	0.000000e+00	3.195807e-05	0	0.000000e+00	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI034	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##		0tu06514	0tu06515	0tu06516	0tu06517	0tu06518	0tu06519	
##	CSI002	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI013	0	0	0	3.195807e-05	0.000000e+00	0	
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI034	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI056	0	0	0	0.000000e+00	1.959286e-05	0	
##	CSI066	0	0	0	0.000000e+00	0.000000e+00	0	
##		0tu06520	0tu06521	0tu06522	0tu06523	0tu06524	0tu06525	0tu06526
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu06527	0tu06528	0tu06529	0tu06530	0tu06531	0tu06532	
##	CSI002	0	0	0	0	2.724387e-05	0	
##	CSI013	0	0	0	0	0.000000e+00	0	
##	CSI023	0	0	0	0	0.000000e+00	0	
##	CSI034	0	0	0	0	0.000000e+00	0	
##	CSI045	0	0	0	0	0.000000e+00	0	
##	CSI056	0	0	0	0	0.000000e+00	0	
##	CSI066	0	0	0	0	0.000000e+00	0	
##		0tu06533	0tu06534	0tu06535	0tu06536	0tu06537	0tu06538	0tu06539
##	CSI002	0.0000000000	0	0	0	0	0	0
##	CSI013	0.0000000000	0	0	0	0	0	0
##	CSI023	0.0000000000	0	0	0	0	0	0
##	CSI034	0.0000000000	0	0	0	0	0	0
##	CSI045	0.0000000000	0	0	0	0	0	0
##	CSI056	0.0000000000	0	0	0	0	0	0
##	CSI066	0.0001533478	0	0	0	0	0	0
##		0tu06540	0tu06541	0tu06542	0tu06543	0tu06544	0tu06545	0tu06546
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0

##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu06547	0tu06548	0tu06549	0tu06550	0tu06551	0tu06552	
##	CSI002	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	0	0	3.789817e-05	0.000000e+00	
##	CSI045	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0	0	0.000000e+00	1.959286e-05	
##	CSI066	0	0	0	0	0.000000e+00	0.000000e+00	
##		0tu06553	0tu06554	0tu06555	0tu06556	0tu06557	0tu06558	0tu06559
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu06560	0tu06561	0tu06562	0tu06563	0tu06564	0tu06565	0tu06566
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	6.391614e-05	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu06567	0tu06568	0tu06569	0tu06570	0tu06571	0tu06572	0tu06573
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	1.894908e-05	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu06574	0tu06575	0tu06576	0tu06577	0tu06578	0tu06579	0tu06580
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	7.579634e-05	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu06581	0tu06582	0tu06583	0tu06584	0tu06585	0tu06586	0tu06587
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu06588	0tu06589	0tu06590	0tu06591	0tu06592	0tu06593	
##	CSI002	1.362194e-05	1.362194e-05	0.000000e+00	0	0	0	0
##	CSI013	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	0.000000e+00	3.789817e-05	0.000000e+00	0	0	0	0

```

## CSI045 0.000000e+00 0.000000e+00 0.000000e+00      0      0      0
## CSI056 0.000000e+00 0.000000e+00 5.877858e-05      0      0      0
## CSI066 1.916847e-05 0.000000e+00 0.000000e+00      0      0      0
##      0tu06594 0tu06595 0tu06596 0tu06597      0tu06598 0tu06599 0tu06600
## CSI002      0      0      0      0 5.448775e-05      0      0
## CSI013      0      0      0      0 3.195807e-05      0      0
## CSI023      0      0      0      0 0.000000e+00      0      0
## CSI034      0      0      0      0 0.000000e+00      0      0
## CSI045      0      0      0      0 0.000000e+00      0      0
## CSI056      0      0      0      0 0.000000e+00      0      0
## CSI066      0      0      0      0 0.000000e+00      0      0
##      0tu06601 0tu06602 0tu06603 0tu06604 0tu06605 0tu06606 0tu06607
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu06608      0tu06609 0tu06610 0tu06611      0tu06612      0tu06613
## CSI002      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI013      0 0.000000e+00      0      0 3.195807e-05 0.000000e+00
## CSI023      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI034      0 0.000000e+00      0      0 3.789817e-05 0.000000e+00
## CSI045      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI056      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
## CSI066      0 0.000000e+00      0      0 0.000000e+00 0.000000e+00
##      0tu06614 0tu06615      0tu06616      0tu06617 0tu06618 0tu06619
## CSI002      0      0 6.810968e-05 0.000000e+00      0      0
## CSI013      0      0 0.000000e+00 0.000000e+00      0      0
## CSI023      0      0 0.000000e+00 0.000000e+00      0      0
## CSI034      0      0 1.894908e-05 0.000000e+00      0      0
## CSI045      0      0 0.000000e+00 0.000000e+00      0      0
## CSI056      0      0 0.000000e+00 0.000000e+00      0      0
## CSI066      0      0 0.000000e+00 0.000000e+00      0      0
##      0tu06620 0tu06621 0tu06622 0tu06623 0tu06624 0tu06625 0tu06626
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu06627      0tu06628      0tu06629 0tu06630 0tu06631 0tu06632
## CSI002      0 0.000000e+00 0.000000e+00      0      0      0
## CSI013      0 0.000000e+00 0.000000e+00      0      0      0
## CSI023      0 0.000000e+00 0.000000e+00      0      0      0
## CSI034      0 0.000000e+00 1.894908e-05      0      0      0
## CSI045      0 0.000000e+00 0.000000e+00      0      0      0
## CSI056      0 1.959286e-05 3.918572e-05      0      0      0
## CSI066      0 0.000000e+00 0.000000e+00      0      0      0
##      0tu06633 0tu06634 0tu06635      0tu06636 0tu06637 0tu06638 0tu06639
## CSI002      0      0      0 0.000000e+00      0      0      0
## CSI013      0      0      0 0.000000e+00      0      0      0

```

##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	3.789817e-05	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu06640	0tu06641	0tu06642	0tu06643	0tu06644	0tu06645	
##	CSI002	0	0	0	1.362194e-05	0	2.724387e-05	
##	CSI013	0	0	0	3.195807e-05	0	0.000000e+00	
##	CSI023	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI034	0	0	0	0.000000e+00	0	3.789817e-05	
##	CSI045	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI056	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI066	0	0	0	0.000000e+00	0	0.000000e+00	
##		0tu06646	0tu06647	0tu06648	0tu06649	0tu06650	0tu06651	0tu06652
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu06653	0tu06654	0tu06655	0tu06656	0tu06657	0tu06658	
##	CSI002	1.362194e-05	0	0	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI034	0.000000e+00	0	0	0	5.684725e-05	0	
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0	
##		0tu06659	0tu06660	0tu06661	0tu06662	0tu06663		
##	CSI002	0.000000e+00	0	0.000000e+00	0.0000000000	0.000000e+00		
##	CSI013	0.000000e+00	0	3.195807e-05	0.0000000000	0.000000e+00		
##	CSI023	0.000000e+00	0	0.000000e+00	0.0000000000	0.000000e+00		
##	CSI034	1.894908e-05	0	0.000000e+00	0.0000000000	0.000000e+00		
##	CSI045	0.000000e+00	0	0.000000e+00	0.0000000000	0.000000e+00		
##	CSI056	0.000000e+00	0	0.000000e+00	0.0000000000	0.000000e+00		
##	CSI066	0.000000e+00	0	0.000000e+00	0.0000000000	0.000000e+00		
##		0tu06664	0tu06665	0tu06666	0tu06667	0tu06668	0tu06669	
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI013	3.195807e-05	0	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI034	0.000000e+00	0	0	0	3.789817e-05	0	
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0	0	1.959286e-05	0	
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0	
##		0tu06670	0tu06671	0tu06672	0tu06673	0tu06674	0tu06675	
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI034	3.789817e-05	0	0	5.684725e-05	0	0.000000e+00	
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##		0tu06676	0tu06677	0tu06678	0tu06679	0tu06680	0tu06681	

##	CSI002	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	3.789817e-05	0
##	CSI045	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0.000000e+00	0
##		0tu06682	0tu06683	0tu06684	0tu06685	0tu06686	0tu06687
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI013	6.391614e-05	0	0	0	9.587421e-05	0.000000e+00
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI034	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	1.959286e-05
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00
##		0tu06688	0tu06689	0tu06690	0tu06691	0tu06692	0tu06693 0tu06694
##	CSI002	0	0	0	0	0	0.000000e+00 0
##	CSI013	0	0	0	0	0	0.000000e+00 0
##	CSI023	0	0	0	0	0	0.000000e+00 0
##	CSI034	0	0	0	0	0	0.000000e+00 0
##	CSI045	0	0	0	0	0	0.000000e+00 0
##	CSI056	0	0	0	0	0	0.000000e+00 0
##	CSI066	0	0	0	0	0	0.000000e+00 0
##		0tu06695	0tu06696	0tu06697	0tu06698	0tu06699	0tu06700
##	CSI002	0.000000e+00	1.362194e-05	0	0.000000e+00	0	0
##	CSI013	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI034	0.000000e+00	0.000000e+00	0	3.789817e-05	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0
##		0tu06701	0tu06702	0tu06703	0tu06704	0tu06705	0tu06706 0tu06707
##	CSI002	0	0	0	0	4.086581e-05	0 0
##	CSI013	0	0	0	0	0.000000e+00	0 0
##	CSI023	0	0	0	0	0.000000e+00	0 0
##	CSI034	0	0	0	0	7.579634e-05	0 0
##	CSI045	0	0	0	0	0.000000e+00	0 0
##	CSI056	0	0	0	0	0.000000e+00	0 0
##	CSI066	0	0	0	0	0.000000e+00	0 0
##		0tu06708	0tu06709	0tu06710	0tu06711	0tu06712	0tu06713
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	5.750542e-05	0	0
##		0tu06714	0tu06715	0tu06716	0tu06717	0tu06718	0tu06719 0tu06720
##	CSI002	0.000000e+00	0	0	0	0	0 0
##	CSI013	0.000000e+00	0	0	0	0	0 0
##	CSI023	0.000000e+00	0	0	0	0	0 0
##	CSI034	0.000000e+00	0	0	0	0	0 0
##	CSI045	3.265093e-05	0	0	0	0	0 0
##	CSI056	0.000000e+00	0	0	0	0	0 0

```

## CSI066 1.916847e-05      0      0      0      0      0      0
##      0tu06721 0tu06722 0tu06723 0tu06724 0tu06725 0tu06726      0tu06727
## CSI002      0      0      0      0      0      0 0.000000e+00
## CSI013      0      0      0      0      0      0 0.000000e+00
## CSI023      0      0      0      0      0      0 0.000000e+00
## CSI034      0      0      0      0      0      0 0.000000e+00
## CSI045      0      0      0      0      0      0 0.000000e+00
## CSI056      0      0      0      0      0      0 0.000000e+00
## CSI066      0      0      0      0      0      0 0.000000e+00
##      0tu06728 0tu06729 0tu06730      0tu06731 0tu06732      0tu06733
## CSI002      0      0      0 0.000000e+00      0 0.000000e+00
## CSI013      0      0      0 0.000000e+00      0 0.000000e+00
## CSI023      0      0      0 0.000000e+00      0 0.000000e+00
## CSI034      0      0      0 0.000000e+00      0 0.000000e+00
## CSI045      0      0      0 0.000000e+00      0 0.000000e+00
## CSI056      0      0      0 1.959286e-05      0 0.000000e+00
## CSI066      0      0      0 0.000000e+00      0 0.000000e+00
##      0tu06734 0tu06735 0tu06736 0tu06737      0tu06738 0tu06739
## CSI002      0      0      0      0 0.000000e+00      0
## CSI013      0      0      0      0 0.000000e+00      0
## CSI023      0      0      0      0 0.000000e+00      0
## CSI034      0      0      0      0 0.000000e+00      0
## CSI045      0      0      0      0 0.000000e+00      0
## CSI056      0      0      0      0 0.000000e+00      0
## CSI066      0      0      0      0 0.000000e+00      0
##      0tu06740 0tu06741 0tu06742 0tu06743 0tu06744 0tu06745 0tu06746
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 3.195807e-05      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 1.894908e-05      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu06747      0tu06748 0tu06749 0tu06750 0tu06751 0tu06752 0tu06753
## CSI002      0 0.000000e+00      0      0      0      0      0
## CSI013      0 0.000000e+00      0      0      0      0      0
## CSI023      0 0.000000e+00      0      0      0      0      0
## CSI034      0 0.000000e+00      0      0      0      0      0
## CSI045      0 0.000000e+00      0      0      0      0      0
## CSI056      0 0.000000e+00      0      0      0      0      0
## CSI066      0 1.916847e-05      0      0      0      0      0
##      0tu06754 0tu06755 0tu06756      0tu06757 0tu06758      0tu06759
## CSI002      0      0      0 0.000000e+00      0 0.000000e+00
## CSI013      0      0      0 0.000000e+00      0 0.000000e+00
## CSI023      0      0      0 0.000000e+00      0 0.000000e+00
## CSI034      0      0      0 0.000000e+00      0 0.000000e+00
## CSI045      0      0      0 0.000000e+00      0 0.000000e+00
## CSI056      0      0      0 0.000000e+00      0 0.000000e+00
## CSI066      0      0      0 0.000000e+00      0 0.000000e+00
##      0tu06760 0tu06761 0tu06762 0tu06763 0tu06764      0tu06765
## CSI002 0.000000e+00      0      0      0      0 1.362194e-05
## CSI013 0.000000e+00      0      0      0      0 0.000000e+00
## CSI023 0.000000e+00      0      0      0      0 0.000000e+00
## CSI034 0.000000e+00      0      0      0      0 0.000000e+00

```

```

## CSI045 0.000000e+00      0      0      0      0 0.000000e+00
## CSI056 0.000000e+00      0      0      0      0 0.000000e+00
## CSI066 0.000000e+00      0      0      0      0 1.916847e-05
##      0tu06766 0tu06767      0tu06768      0tu06769 0tu06770 0tu06771
## CSI002 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI013 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI034 5.684725e-05      0 0.000000e+00 1.894908e-05      0      0
## CSI045 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI056 0.000000e+00      0 3.918572e-05 0.000000e+00      0      0
## CSI066 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
##      0tu06772 0tu06773 0tu06774      0tu06775      0tu06776 0tu06777
## CSI002      0      0      0 0.0000000000 4.086581e-05      0
## CSI013      0      0      0 0.0000000000 0.000000e+00      0
## CSI023      0      0      0 0.0000000000 0.000000e+00      0
## CSI034      0      0      0 0.0001515927 0.000000e+00      0
## CSI045      0      0      0 0.0000000000 0.000000e+00      0
## CSI056      0      0      0 0.0000000000 0.000000e+00      0
## CSI066      0      0      0 0.0000000000 0.000000e+00      0
##      0tu06778      0tu06779 0tu06780      0tu06781 0tu06782
## CSI002 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI013 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI023 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI034 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI045 0.000000e+00 0.000000e+00      0 6.530186e-05      0
## CSI056 1.959286e-05 1.959286e-05      0 1.959286e-05      0
## CSI066 0.000000e+00 3.833694e-05      0 0.000000e+00      0
##      0tu06783 0tu06784 0tu06785 0tu06786 0tu06787 0tu06788 0tu06789
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu06790 0tu06791 0tu06792      0tu06793      0tu06794      0tu06795
## CSI002      0      0      0 8.173162e-05 4.086581e-05 0.000000e+00
## CSI013      0      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI023      0      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034      0      0      0 1.894908e-05 0.000000e+00 0.000000e+00
## CSI045      0      0      0 0.000000e+00 0.000000e+00 3.265093e-05
## CSI056      0      0      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI066      0      0      0 0.000000e+00 0.000000e+00 0.000000e+00
##      0tu06796 0tu06797      0tu06798 0tu06799 0tu06800 0tu06801 0tu06802
## CSI002      0      0 0.000000e+00      0      0      0      0
## CSI013      0      0 0.000000e+00      0      0      0      0
## CSI023      0      0 0.000000e+00      0      0      0      0
## CSI034      0      0 0.000000e+00      0      0      0      0
## CSI045      0      0 0.000000e+00      0      0      0      0
## CSI056      0      0 0.000000e+00      0      0      0      0
## CSI066      0      0 0.000000e+00      0      0      0      0
##      0tu06803 0tu06804 0tu06805 0tu06806 0tu06807      0tu06808
## CSI002 0.000000e+00      0      0      0      0 0.000000e+00
## CSI013 0.000000e+00      0      0      0      0 0.000000e+00

```



```

## CSI023 0.000000e+00      0      0      0      0 0.000000e+00
## CSI034 1.894908e-05      0      0      0      0 0.000000e+00
## CSI045 0.000000e+00      0      0      0      0 0.000000e+00
## CSI056 0.000000e+00      0      0      0      0 0.000000e+00
## CSI066 0.000000e+00      0      0      0      0 0.000000e+00
##      0tu06809 0tu06810 0tu06811 0tu06812      0tu06813 0tu06814
## CSI002 0.000000e+00      0      0      0 2.724387e-05      0
## CSI013 0.000000e+00      0      0      0 0.000000e+00      0
## CSI023 0.000000e+00      0      0      0 6.123074e-05      0
## CSI034 0.000000e+00      0      0      0 0.000000e+00      0
## CSI045 0.000000e+00      0      0      0 0.000000e+00      0
## CSI056 1.959286e-05      0      0      0 0.000000e+00      0
## CSI066 0.000000e+00      0      0      0 0.000000e+00      0
##      0tu06815 0tu06816      0tu06817 0tu06818 0tu06819      0tu06820
## CSI002      0      0 0.000000e+00      0      0 0.0000000000
## CSI013      0      0 0.000000e+00      0      0 0.0000000000
## CSI023      0      0 0.000000e+00      0      0 0.0000000000
## CSI034      0      0 0.000000e+00      0      0 0.0001326436
## CSI045      0      0 0.000000e+00      0      0 0.0000000000
## CSI056      0      0 0.000000e+00      0      0 0.0000000000
## CSI066      0      0 3.833694e-05      0      0 0.0000000000
##      0tu06821 0tu06822      0tu06823 0tu06824      0tu06825 0tu06826
## CSI002      0      0 0.000000e+00      0 0.0000000000      0
## CSI013      0      0 0.000000e+00      0 0.0000000000      0
## CSI023      0      0 0.000000e+00      0 0.0000000000      0
## CSI034      0      0 3.789817e-05      0 0.0000000000      0
## CSI045      0      0 0.000000e+00      0 0.0000000000      0
## CSI056      0      0 0.000000e+00      0 0.0000000000      0
## CSI066      0      0 0.000000e+00      0 0.0000000000      0
##      0tu06827 0tu06828 0tu06829      0tu06830 0tu06831 0tu06832 0tu06833
## CSI002      0      0      0 0.000000e+00      0      0      0
## CSI013      0      0      0 0.000000e+00      0      0      0
## CSI023      0      0      0 0.000000e+00      0      0      0
## CSI034      0      0      0 1.894908e-05      0      0      0
## CSI045      0      0      0 0.000000e+00      0      0      0
## CSI056      0      0      0 0.000000e+00      0      0      0
## CSI066      0      0      0 0.000000e+00      0      0      0
##      0tu06834      0tu06835 0tu06836 0tu06837      0tu06838 0tu06839
## CSI002      0 0.000000e+00      0      0 0.000000e+00      0
## CSI013      0 0.000000e+00      0      0 0.000000e+00      0
## CSI023      0 0.000000e+00      0      0 0.000000e+00      0
## CSI034      0 0.000000e+00      0      0 0.000000e+00      0
## CSI045      0 0.000000e+00      0      0 0.000000e+00      0
## CSI056      0 0.000000e+00      0      0 0.000000e+00      0
## CSI066      0 0.000000e+00      0      0 0.000000e+00      0
##      0tu06840 0tu06841 0tu06842 0tu06843 0tu06844 0tu06845 0tu06846
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu06847      0tu06848 0tu06849 0tu06850 0tu06851 0tu06852 0tu06853

```

##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	1.894908e-05	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu06854	0tu06855	0tu06856	0tu06857	0tu06858	0tu06859	0tu06860
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu06861	0tu06862	0tu06863	0tu06864	0tu06865	0tu06866	0tu06867
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	3.789817e-05
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu06868	0tu06869	0tu06870	0tu06871	0tu06872	0tu06873	
##	CSI002	0	0	0	0.000000e+00	0.0000000000	0	
##	CSI013	0	0	0	0.000000e+00	0.0000000000	0	
##	CSI023	0	0	0	0.000000e+00	0.0000000000	0	
##	CSI034	0	0	0	0.000000e+00	0.0000000000	0	
##	CSI045	0	0	0	3.265093e-05	0.0000000000	0	
##	CSI056	0	0	0	0.000000e+00	0.0000000000	0	
##	CSI066	0	0	0	0.000000e+00	0.0000000000	0	
##		0tu06874	0tu06875	0tu06876	0tu06877	0tu06878	0tu06879	
##	CSI002	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0	0	3.265093e-05	0.000000e+00	
##	CSI056	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI066	0	0	0	0	0.000000e+00	0.000000e+00	
##		0tu06880	0tu06881	0tu06882	0tu06883	0tu06884	0tu06885	0tu06886
##	CSI002	0	0	0	0	0	1.362194e-05	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	3.789817e-05	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu06887	0tu06888	0tu06889	0tu06890	0tu06891	0tu06892	
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI034	0.000000e+00	0	0	0.000000e+00	0	7.579634e-05	
##	CSI045	6.530186e-05	0	0	0.000000e+00	0	0.000000e+00	
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	

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## CSI066 0.000000e+00      0      0 0.000000e+00      0 0.000000e+00
##      0tu06893 0tu06894 0tu06895 0tu06896 0tu06897 0tu06898 0tu06899
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu06900 0tu06901 0tu06902 0tu06903 0tu06904 0tu06905      0tu06906
## CSI002      0      0      0      0      0      0 0.000000e+00
## CSI013      0      0      0      0      0      0 0.000000e+00
## CSI023      0      0      0      0      0      0 0.000000e+00
## CSI034      0      0      0      0      0      0 1.894908e-05
## CSI045      0      0      0      0      0      0 0.000000e+00
## CSI056      0      0      0      0      0      0 0.000000e+00
## CSI066      0      0      0      0      0      0 0.000000e+00
##      0tu06907 0tu06908 0tu06909 0tu06910 0tu06911 0tu06912 0tu06913
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 7.579634e-05      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu06914 0tu06915      0tu06916      0tu06917 0tu06918 0tu06919
## CSI002      0      0 0.0001089755 2.724387e-05      0      0
## CSI013      0      0 0.0000000000 0.000000e+00      0      0
## CSI023      0      0 0.0000000000 0.000000e+00      0      0
## CSI034      0      0 0.0000000000 0.000000e+00      0      0
## CSI045      0      0 0.0000000000 0.000000e+00      0      0
## CSI056      0      0 0.0000000000 0.000000e+00      0      0
## CSI066      0      0 0.0000000000 0.000000e+00      0      0
##      0tu06920 0tu06921      0tu06922      0tu06923      0tu06924
## CSI002 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI013 0.000000e+00      0 0.000000e+00 0.000000e+00 3.195807e-05
## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034 1.894908e-05      0 0.000000e+00 5.684725e-05 0.000000e+00
## CSI045 0.000000e+00      0 3.265093e-05 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI066 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
##      0tu06925 0tu06926      0tu06927 0tu06928 0tu06929 0tu06930
## CSI002 0.000000e+00      0 0.000000e+00      0      0      0
## CSI013 0.000000e+00      0 3.195807e-05      0      0      0
## CSI023 0.000000e+00      0 0.000000e+00      0      0      0
## CSI034 1.894908e-05      0 0.000000e+00      0      0      0
## CSI045 0.000000e+00      0 0.000000e+00      0      0      0
## CSI056 0.000000e+00      0 0.000000e+00      0      0      0
## CSI066 0.000000e+00      0 0.000000e+00      0      0      0
##      0tu06931 0tu06932      0tu06933 0tu06934 0tu06935      0tu06936
## CSI002      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI013      0 3.195807e-05 0.000000e+00      0      0 0.000000e+00
## CSI023      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00
## CSI034      0 0.000000e+00 0.000000e+00      0      0 0.000000e+00

```

##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##		0tu06937	0tu06938	0tu06939	0tu06940	0tu06941	0tu06942	0tu06943
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu06944	0tu06945	0tu06946	0tu06947	0tu06948	0tu06949	0tu06950
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu06951	0tu06952	0tu06953	0tu06954	0tu06955	0tu06956	0tu06957
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	1.916847e-05
##		0tu06958	0tu06959	0tu06960	0tu06961	0tu06962	0tu06963	0tu06964
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	2.041025e-05
##	CSI034	0	0	0	0	0	0	3.789817e-05
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu06965	0tu06966	0tu06967	0tu06968	0tu06969	0tu06970	0tu06971
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu06972	0tu06973	0tu06974	0tu06975	0tu06976	0tu06977	
##	CSI002	0	0	0	0	0.000000e+00	1.362194e-05	
##	CSI013	0	0	0	0	1.917484e-04	0.000000e+00	
##	CSI023	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI066	0	0	0	0	0.000000e+00	0.000000e+00	
##		0tu06978	0tu06979	0tu06980	0tu06981	0tu06982	0tu06983	
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	2.724387e-05	
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	6.391614e-05	

```

## CSI023 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI034 0.000000e+00      0      0      0 3.789817e-05 0.000000e+00
## CSI045 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI056 5.877858e-05      0      0      0 0.000000e+00 0.000000e+00
## CSI066 1.916847e-05      0      0      0 0.000000e+00 0.000000e+00
##      0tu06984 0tu06985      0tu06986      0tu06987 0tu06988      0tu06989
## CSI002      0      0 0.000000e+00 0.000000e+00      0 1.362194e-05
## CSI013      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI023      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI034      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI045      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI056      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
## CSI066      0      0 0.000000e+00 0.000000e+00      0 0.000000e+00
##      0tu06990 0tu06991 0tu06992 0tu06993 0tu06994 0tu06995 0tu06996
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu06997 0tu06998      0tu06999      0tu07000 0tu07001 0tu07002
## CSI002 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI013 0.000000e+00      0 3.195807e-05 0.000000e+00      0      0
## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI034 0.000000e+00      0 1.894908e-05 0.000000e+00      0      0
## CSI045 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI056 0.000000e+00      0 0.000000e+00 1.959286e-05      0      0
## CSI066 1.916847e-05      0 0.000000e+00 0.000000e+00      0      0
##      0tu07003 0tu07004 0tu07005      0tu07006 0tu07007 0tu07008
## CSI002 0.0001089755      0      0 0.000000e+00      0      0
## CSI013 0.0000000000      0      0 0.000000e+00      0      0
## CSI023 0.0000000000      0      0 0.000000e+00      0      0
## CSI034 0.0000000000      0      0 0.000000e+00      0      0
## CSI045 0.0000000000      0      0 0.000000e+00      0      0
## CSI056 0.0000000000      0      0 0.000000e+00      0      0
## CSI066 0.0000000000      0      0 0.000000e+00      0      0
##      0tu07009      0tu07010 0tu07011      0tu07012 0tu07013
## CSI002 6.810968e-05 4.086581e-05      0 1.362194e-05      0
## CSI013 6.391614e-05 0.000000e+00      0 0.000000e+00      0
## CSI023 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI034 0.000000e+00 0.000000e+00      0 5.684725e-05      0
## CSI045 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI056 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI066 0.000000e+00 0.000000e+00      0 0.000000e+00      0
##      0tu07014 0tu07015 0tu07016 0tu07017      0tu07018 0tu07019
## CSI002 0.000000e+00      0      0      0 0.000000e+00      0
## CSI013 3.195807e-05      0      0      0 0.000000e+00      0
## CSI023 0.000000e+00      0      0      0 0.000000e+00      0
## CSI034 3.789817e-05      0      0      0 0.000000e+00      0
## CSI045 0.000000e+00      0      0      0 3.265093e-05      0
## CSI056 0.000000e+00      0      0      0 0.000000e+00      0
## CSI066 0.000000e+00      0      0      0 0.000000e+00      0
##      0tu07020 0tu07021 0tu07022 0tu07023 0tu07024      0tu07025 0tu07026

```

##	CSI002	0	0	0	0	0	1.362194e-05	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##	0tu07027	0tu07028	0tu07029	0tu07030	0tu07031	0tu07032		
##	CSI002	0	0.000000e+00	0	1.362194e-05	0	0.000000e+00	
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00	
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00	
##	CSI034	0	3.789817e-05	0	0.000000e+00	0	0.000000e+00	
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00	
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	1.959286e-05	
##	CSI066	0	0.000000e+00	0	0.000000e+00	0	0.000000e+00	
##	0tu07033	0tu07034	0tu07035	0tu07036	0tu07037	0tu07038	0tu07039	
##	CSI002	0	0	0	0	0	0.000000e+00	
##	CSI013	0	0	0	0	0	0.000000e+00	
##	CSI023	0	0	0	0	0	0.000000e+00	
##	CSI034	0	0	0	0	0	0.000000e+00	
##	CSI045	0	0	0	0	0	0.000000e+00	
##	CSI056	0	0	0	0	0	5.877858e-05	
##	CSI066	0	0	0	0	0	0.000000e+00	
##	0tu07040	0tu07041	0tu07042	0tu07043	0tu07044	0tu07045		
##	CSI002	0	0.000000e+00	0	0	0	1.362194e-05	
##	CSI013	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI023	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI034	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI045	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI056	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI066	0	0.000000e+00	0	0	0	0.000000e+00	
##	0tu07046	0tu07047	0tu07048	0tu07049	0tu07050	0tu07051		
##	CSI002	0	0	0.000000e+00	0.0000000000	0	0	
##	CSI013	0	0	0.000000e+00	0.0000000000	0	0	
##	CSI023	0	0	0.000000e+00	0.0000000000	0	0	
##	CSI034	0	0	0.000000e+00	0.0000000000	0	0	
##	CSI045	0	0	0.000000e+00	0.0000000000	0	0	
##	CSI056	0	0	1.959286e-05	0.0000000000	0	0	
##	CSI066	0	0	0.000000e+00	0.0000000000	0	0	
##	0tu07052	0tu07053	0tu07054	0tu07055	0tu07056	0tu07057	0tu07058	
##	CSI002	0	0	0	0	0	0	
##	CSI013	0	0	0	0	0	0	
##	CSI023	0	0	0	0	0	0	
##	CSI034	0	0	0	0	0	0	
##	CSI045	0	0	0	0	0	0	
##	CSI056	0	0	0	0	0	0	
##	CSI066	0	0	0	0	0	0	
##	0tu07059	0tu07060	0tu07061	0tu07062	0tu07063	0tu07064	0tu07065	
##	CSI002	0	0.000000e+00	0	0	0	0	
##	CSI013	0	0.000000e+00	0	0	0	0	
##	CSI023	0	0.000000e+00	0	0	0	0	
##	CSI034	0	0.000000e+00	0	0	0	0	
##	CSI045	0	0.000000e+00	0	0	0	0	
##	CSI056	0	0.000000e+00	0	0	0	0	

##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu07066	0tu07067	0tu07068	0tu07069	0tu07070	0tu07071	
##	CSI002	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI034	0	3.789817e-05	0	0.000000e+00	0	0	
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI066	0	0.000000e+00	0	0.000000e+00	0	0	
##		0tu07072	0tu07073	0tu07074	0tu07075	0tu07076	0tu07077	0tu07078
##	CSI002	0	0	0	2.724387e-05	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu07079	0tu07080	0tu07081	0tu07082	0tu07083	0tu07084	
##	CSI002	0	0.000000e+00	0	0	0	0	
##	CSI013	0	0.000000e+00	0	0	0	0	
##	CSI023	0	0.000000e+00	0	0	0	0	
##	CSI034	0	0.000000e+00	0	0	0	0	
##	CSI045	0	0.000000e+00	0	0	0	0	
##	CSI056	0	0.000000e+00	0	0	0	0	
##	CSI066	0	0.000000e+00	0	0	0	0	
##		0tu07085	0tu07086	0tu07087	0tu07088	0tu07089	0tu07090	
##	CSI002	0.0000000000	0	0.000000e+00	0	0	0	
##	CSI013	0.0001917484	0	0.000000e+00	0	0	0	
##	CSI023	0.0000000000	0	2.041025e-05	0	0	0	
##	CSI034	0.0000000000	0	0.000000e+00	0	0	0	
##	CSI045	0.0000000000	0	0.000000e+00	0	0	0	
##	CSI056	0.0000000000	0	0.000000e+00	0	0	0	
##	CSI066	0.0000000000	0	0.000000e+00	0	0	0	
##		0tu07091	0tu07092	0tu07093	0tu07094	0tu07095	0tu07096	0tu07097
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu07098	0tu07099	0tu07100	0tu07101	0tu07102	0tu07103	
##	CSI002	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI013	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI034	1.894908e-05	0	0	0	0	1.894908e-05	
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00	
##		0tu07104	0tu07105	0tu07106	0tu07107	0tu07108	0tu07109	0tu07110
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	3.789817e-05

```

## CSI045      0      0      0      0      0      0 0.000000e+00
## CSI056      0      0      0      0      0      0 0.000000e+00
## CSI066      0      0      0      0      0      0 0.000000e+00
##      0tu07111 0tu07112      0tu07113 0tu07114 0tu07115 0tu07116 0tu07117
## CSI002      0      0 1.362194e-05      0      0      0      0
## CSI013      0      0 0.000000e+00      0      0      0      0
## CSI023      0      0 0.000000e+00      0      0      0      0
## CSI034      0      0 0.000000e+00      0      0      0      0
## CSI045      0      0 0.000000e+00      0      0      0      0
## CSI056      0      0 0.000000e+00      0      0      0      0
## CSI066      0      0 0.000000e+00      0      0      0      0
##      0tu07118      0tu07119 0tu07120      0tu07121 0tu07122      0tu07123
## CSI002      0 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI013      0 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI023      0 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI034      0 0.000000e+00      0 0.000000e+00      0 1.894908e-05
## CSI045      0 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI056      0 1.959286e-05      0 0.000000e+00      0 0.000000e+00
## CSI066      0 0.000000e+00      0 0.000000e+00      0 0.000000e+00
##      0tu07124 0tu07125      0tu07126 0tu07127 0tu07128 0tu07129 0tu07130
## CSI002      0      0 2.724387e-05      0      0      0      0
## CSI013      0      0 0.000000e+00      0      0      0      0
## CSI023      0      0 0.000000e+00      0      0      0      0
## CSI034      0      0 0.000000e+00      0      0      0      0
## CSI045      0      0 0.000000e+00      0      0      0      0
## CSI056      0      0 0.000000e+00      0      0      0      0
## CSI066      0      0 0.000000e+00      0      0      0      0
##      0tu07131 0tu07132 0tu07133 0tu07134      0tu07135 0tu07136 0tu07137
## CSI002      0      0      0      0 0.000000e+00      0      0
## CSI013      0      0      0      0 0.000000e+00      0      0
## CSI023      0      0      0      0 0.000000e+00      0      0
## CSI034      0      0      0      0 1.894908e-05      0      0
## CSI045      0      0      0      0 0.000000e+00      0      0
## CSI056      0      0      0      0 0.000000e+00      0      0
## CSI066      0      0      0      0 0.000000e+00      0      0
##      0tu07138 0tu07139 0tu07140 0tu07141      0tu07142 0tu07143
## CSI002      0      0      0      0 0.000000e+00      0
## CSI013      0      0      0      0 0.000000e+00      0
## CSI023      0      0      0      0 0.000000e+00      0
## CSI034      0      0      0      0 0.000000e+00      0
## CSI045      0      0      0      0 0.000000e+00      0
## CSI056      0      0      0      0 0.000000e+00      0
## CSI066      0      0      0      0 0.000000e+00      0
##      0tu07144 0tu07145      0tu07146 0tu07147 0tu07148 0tu07149
## CSI002 0.000000e+00      0 0.000000e+00      0      0      0
## CSI013 3.195807e-05      0 0.000000e+00      0      0      0
## CSI023 0.000000e+00      0 0.000000e+00      0      0      0
## CSI034 0.000000e+00      0 0.000000e+00      0      0      0
## CSI045 0.000000e+00      0 0.000000e+00      0      0      0
## CSI056 0.000000e+00      0 0.000000e+00      0      0      0
## CSI066 0.000000e+00      0 0.000000e+00      0      0      0
##      0tu07150 0tu07151 0tu07152 0tu07153      0tu07154      0tu07155
## CSI002 0.000000e+00      0      0      0 0.000000e+00 1.362194e-05
## CSI013 0.000000e+00      0      0      0 6.391614e-05 0.000000e+00

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## CSI023 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI034 0.000000e+00      0      0      0 1.894908e-05 0.000000e+00
## CSI045 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI056 1.959286e-05      0      0      0 0.000000e+00 0.000000e+00
## CSI066 3.833694e-05      0      0      0 0.000000e+00 0.000000e+00
##      0tu07156      0tu07157      0tu07158 0tu07159 0tu07160 0tu07161
## CSI002      0 0.000000e+00 0.000000e+00      0      0      0
## CSI013      0 0.000000e+00 0.000000e+00      0      0      0
## CSI023      0 0.000000e+00 0.000000e+00      0      0      0
## CSI034      0 0.000000e+00 0.000000e+00      0      0      0
## CSI045      0 0.000000e+00 3.265093e-05      0      0      0
## CSI056      0 0.000000e+00 0.000000e+00      0      0      0
## CSI066      0 0.000000e+00 1.916847e-05      0      0      0
##      0tu07162      0tu07163 0tu07164 0tu07165 0tu07166 0tu07167 0tu07168
## CSI002      0 0.000000e+00      0      0      0      0      0
## CSI013      0 0.000000e+00      0      0      0      0      0
## CSI023      0 0.000000e+00      0      0      0      0      0
## CSI034      0 0.000000e+00      0      0      0      0      0
## CSI045      0 0.000000e+00      0      0      0      0      0
## CSI056      0 0.000000e+00      0      0      0      0      0
## CSI066      0 0.000000e+00      0      0      0      0      0
##      0tu07169 0tu07170      0tu07171 0tu07172 0tu07173 0tu07174 0tu07175
## CSI002      0      0 0.000000e+00      0      0      0      0
## CSI013      0      0 0.000000e+00      0      0      0      0
## CSI023      0      0 0.000000e+00      0      0      0      0
## CSI034      0      0 1.894908e-05      0      0      0      0
## CSI045      0      0 0.000000e+00      0      0      0      0
## CSI056      0      0 0.000000e+00      0      0      0      0
## CSI066      0      0 0.000000e+00      0      0      0      0
##      0tu07176      0tu07177 0tu07178      0tu07179      0tu07180 0tu07181
## CSI002      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI013      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI023      0 0.000000e+00      0 2.041025e-05 0.000000e+00      0
## CSI034      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI045      0 0.000000e+00      0 0.000000e+00 6.530186e-05      0
## CSI056      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
## CSI066      0 0.000000e+00      0 0.000000e+00 0.000000e+00      0
##      0tu07182      0tu07183      0tu07184 0tu07185 0tu07186 0tu07187
## CSI002      0 0.0000000000 0.000000e+00      0      0      0
## CSI013      0 0.0000000000 9.587421e-05      0      0      0
## CSI023      0 0.0000000000 0.000000e+00      0      0      0
## CSI034      0 0.0001136945 0.000000e+00      0      0      0
## CSI045      0 0.0000000000 0.000000e+00      0      0      0
## CSI056      0 0.0000000000 0.000000e+00      0      0      0
## CSI066      0 0.0000000000 0.000000e+00      0      0      0
##      0tu07188      0tu07189 0tu07190      0tu07191 0tu07192
## CSI002 0.00000000000 0.000000e+00      0 0.000000e+00      0
## CSI013 0.00000000000 0.000000e+00      0 3.195807e-05      0
## CSI023 0.00000000000 0.000000e+00      0 0.000000e+00      0
## CSI034 0.00000000000 0.000000e+00      0 0.000000e+00      0
## CSI045 0.00000000000 0.000000e+00      0 0.000000e+00      0
## CSI056 0.00000000000 0.000000e+00      0 0.000000e+00      0
## CSI066 0.0001150108 0.000000e+00      0 0.000000e+00      0
##      0tu07193 0tu07194      0tu07195 0tu07196      0tu07197 0tu07198

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##	CSI002	1.362194e-05	0	0.000000e+00	0	0.000000e+00	0
##	CSI013	0.000000e+00	0	3.195807e-05	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI034	1.894908e-05	0	0.000000e+00	0	3.789817e-05	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI066	0.000000e+00	0	1.916847e-05	0	0.000000e+00	0
##		0tu07199	0tu07200	0tu07201	0tu07202	0tu07203	0tu07204 0tu07205
##	CSI002	0	0	0	0	0	0.000000e+00 0
##	CSI013	0	0	0	0	0	3.195807e-05 0
##	CSI023	0	0	0	0	0	0.000000e+00 0
##	CSI034	0	0	0	0	0	1.894908e-05 0
##	CSI045	0	0	0	0	0	0.000000e+00 0
##	CSI056	0	0	0	0	0	0.000000e+00 0
##	CSI066	0	0	0	0	0	0.000000e+00 0
##		0tu07206	0tu07207	0tu07208	0tu07209	0tu07210	0tu07211 0tu07212
##	CSI002	0	0	0	0	0	0.000000e+00 0
##	CSI013	0	0	0	0	0	0.000000e+00 0
##	CSI023	0	0	0	0	0	0.000000e+00 0
##	CSI034	0	0	0	0	0	0.000000e+00 0
##	CSI045	0	0	0	0	0	0.000000e+00 0
##	CSI056	0	0	0	0	0	0.000000e+00 0
##	CSI066	0	0	0	0	0	1.916847e-05 0
##		0tu07213	0tu07214	0tu07215	0tu07216	0tu07217	0tu07218
##	CSI002	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI013	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI034	0	0	0	1.894908e-05	0.000000e+00	0
##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI066	0	0	0	0.000000e+00	0.000000e+00	0
##		0tu07219	0tu07220	0tu07221	0tu07222	0tu07223	0tu07224 0tu07225
##	CSI002	0	0.000000e+00	0	0	0	0 0
##	CSI013	0	0.000000e+00	0	0	0	0 0
##	CSI023	0	0.000000e+00	0	0	0	0 0
##	CSI034	0	1.894908e-05	0	0	0	0 0
##	CSI045	0	0.000000e+00	0	0	0	0 0
##	CSI056	0	0.000000e+00	0	0	0	0 0
##	CSI066	0	0.000000e+00	0	0	0	0 0
##		0tu07226	0tu07227	0tu07228	0tu07229	0tu07230	0tu07231
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu07232	0tu07233	0tu07234	0tu07235	0tu07236	
##	CSI002	0.0000000000	0	0.000000e+00	0.000000e+00	0	
##	CSI013	0.0000000000	0	0.000000e+00	0.000000e+00	0	
##	CSI023	0.0000000000	0	0.000000e+00	0.000000e+00	0	
##	CSI034	0.0001326436	0	0.000000e+00	0.000000e+00	0	
##	CSI045	0.0000000000	0	0.000000e+00	0.000000e+00	0	
##	CSI056	0.0000000000	0	0.000000e+00	0.000000e+00	0	

##	CSI066	0.0000000000	0	0.000000e+00	0.000000e+00	0	
##		0tu07237	0tu07238	0tu07239	0tu07240	0tu07241	0tu07242
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI013	0.000000e+00	3.195807e-05	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI034	1.894908e-05	0.000000e+00	0	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0
##		0tu07243	0tu07244	0tu07245	0tu07246	0tu07247	0tu07248
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu07250	0tu07251	0tu07252	0tu07253	0tu07254	0tu07255
##	CSI002	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00
##	CSI013	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00
##	CSI023	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00
##	CSI034	0	0.000000e+00	0	0	1.894908e-05	0.000000e+00
##	CSI045	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00
##	CSI056	0	3.918572e-05	0	0	0.000000e+00	0.000000e+00
##	CSI066	0	0.000000e+00	0	0	0.000000e+00	0.000000e+00
##		0tu07256	0tu07257	0tu07258	0tu07259	0tu07260	0tu07261
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	3.789817e-05	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu07263	0tu07264	0tu07265	0tu07266	0tu07267	0tu07268
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu07270	0tu07271	0tu07272	0tu07273	0tu07274	0tu07275
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu07277	0tu07278	0tu07279	0tu07280	0tu07281	0tu07282
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0

##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	3.833694e-05	0	0	0	0	0
##		0tu07284	0tu07285	0tu07286	0tu07287	0tu07288	0tu07289	0tu07290
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07291	0tu07292	0tu07293	0tu07294	0tu07295	0tu07296	
##	CSI002	1.362194e-05	0	0.000000e+00	0	0	0	
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI034	5.684725e-05	0	0.000000e+00	0	0	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI056	0.000000e+00	0	1.959286e-05	0	0	0	
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0	
##		0tu07297	0tu07298	0tu07299	0tu07300	0tu07301	0tu07302	0tu07303
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu07304	0tu07305	0tu07306	0tu07307	0tu07308	0tu07309	0tu07310
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07311	0tu07312	0tu07313	0tu07314	0tu07315	0tu07316	0tu07317
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	7.667389e-05	0	0	0	0
##		0tu07318	0tu07319	0tu07320	0tu07321	0tu07322	0tu07323	
##	CSI002	0	4.086581e-05	0	0.000000e+00	0.000000e+00		0
##	CSI013	0	6.391614e-05	0	0.000000e+00	0.000000e+00		0
##	CSI023	0	0.000000e+00	0	0.000000e+00	0.000000e+00		0
##	CSI034	0	0.000000e+00	0	0.000000e+00	0.000000e+00		0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0.000000e+00		0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0.000000e+00		0
##	CSI066	0	0.000000e+00	0	0.000000e+00	9.584236e-05		0
##		0tu07324	0tu07325	0tu07326	0tu07327	0tu07328	0tu07329	
##	CSI002	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0	

##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI034	0	1.894908e-05	0	1.894908e-05	0	0
##	CSI045	0	3.265093e-05	0	0.000000e+00	0	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI066	0	0.000000e+00	0	0.000000e+00	0	0
##		0tu07330	0tu07331	0tu07332	0tu07333	0tu07334	
##	CSI002	0	0	0.000000e+00	1.362194e-05	0.000000e+00	
##	CSI013	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI034	0	0	1.894908e-05	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0.000000e+00	0.000000e+00	1.306037e-04	
##	CSI056	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI066	0	0	0.000000e+00	0.000000e+00	0.000000e+00	
##		0tu07335	0tu07336	0tu07337	0tu07338	0tu07339	0tu07340
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI034	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0
##		0tu07341	0tu07342	0tu07343	0tu07344	0tu07345	0tu07346 0tu07347
##	CSI002	0	0	0	0	0	2.724387e-05 0
##	CSI013	0	0	0	0	0	0.000000e+00 0
##	CSI023	0	0	0	0	0	0.000000e+00 0
##	CSI034	0	0	0	0	0	0.000000e+00 0
##	CSI045	0	0	0	0	0	0.000000e+00 0
##	CSI056	0	0	0	0	0	1.959286e-05 0
##	CSI066	0	0	0	0	0	0.000000e+00 0
##		0tu07348	0tu07349	0tu07350	0tu07351	0tu07352	0tu07353 0tu07354
##	CSI002	0	0	0	0	0	0.000000e+00 0
##	CSI013	0	0	0	0	0	0.000000e+00 0
##	CSI023	0	0	0	0	0	0.000000e+00 0
##	CSI034	0	0	0	0	0	0.000000e+00 0
##	CSI045	0	0	0	0	0	0.000000e+00 0
##	CSI056	0	0	0	0	0	0.000000e+00 0
##	CSI066	0	0	0	0	0	0.000000e+00 0
##		0tu07355	0tu07356	0tu07357	0tu07358	0tu07359	0tu07360
##	CSI002	0	0	0.000000e+00	0	0	4.086581e-05
##	CSI013	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI023	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	0	0	0.000000e+00	0	0	1.894908e-05
##	CSI045	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI056	0	0	0.000000e+00	0	0	3.918572e-05
##	CSI066	0	0	0.000000e+00	0	0	0.000000e+00
##		0tu07361	0tu07362	0tu07363	0tu07364	0tu07365	0tu07366 0tu07367
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu07368	0tu07369	0tu07370	0tu07371	0tu07372	0tu07373

##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI066	1.916847e-05	0	0	0	0.000000e+00	0
##		0tu07374	0tu07375	0tu07376	0tu07377	0tu07378	0tu07379
##	CSI002	2.724387e-05	0	0	0.000000e+00	0	0.000000e+00
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI034	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	1.959286e-05
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00
##		0tu07380	0tu07381	0tu07382	0tu07383	0tu07384	0tu07385
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	0.000000e+00	0	9.474542e-05	0	0	0.000000e+00
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	3.265093e-05
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI066	9.584236e-05	0	0.000000e+00	0	0	0.000000e+00
##		0tu07386	0tu07387	0tu07388	0tu07389	0tu07390	0tu07391
##	CSI002	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI013	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI023	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI045	0	0	0.000000e+00	0	0	9.795279e-05
##	CSI056	0	0	5.877858e-05	0	0	0.000000e+00
##	CSI066	0	0	0.000000e+00	0	0	0.000000e+00
##		0tu07392	0tu07393	0tu07394	0tu07395	0tu07396	0tu07397
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	7.579634e-05	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu07399	0tu07400	0tu07401	0tu07402	0tu07403	0tu07404
##	CSI002	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI013	0.000000e+00	0	0	3.195807e-05	0.000000e+00	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI034	0.000000e+00	0	0	0.000000e+00	3.789817e-05	0
##	CSI045	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI056	0.000000e+00	0	0	0.000000e+00	0.000000e+00	0
##	CSI066	3.833694e-05	0	0	0.000000e+00	0.000000e+00	0
##		0tu07405	0tu07406	0tu07407	0tu07408	0tu07409	0tu07410
##	CSI002	0	0	1.362194e-05	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	4.082049e-05	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0

##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu07412	0tu07413	0tu07414	0tu07415	0tu07416	0tu07417	0tu07418
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	1.916847e-05	0
##		0tu07419	0tu07420	0tu07421	0tu07422	0tu07423	0tu07424	0tu07425
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	3.789817e-05	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu07426	0tu07427	0tu07428	0tu07429	0tu07430	0tu07431	0tu07432
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu07433	0tu07434	0tu07435	0tu07436	0tu07437	0tu07438	
##	CSI002	0	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI013	0	0.000000e+00	0	0	0	0	6.391614e-05
##	CSI023	0	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI034	0	0.000000e+00	0	0	0	0	1.894908e-05
##	CSI045	0	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI056	0	3.918572e-05	0	0	0	0	0.000000e+00
##	CSI066	0	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu07439	0tu07440	0tu07441	0tu07442	0tu07443	0tu07444	0tu07445
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	5.750542e-05	0	0	0	0	0	0
##		0tu07446	0tu07447	0tu07448	0tu07449	0tu07450	0tu07451	0tu07452
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	6.391614e-05	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu07453	0tu07454	0tu07455	0tu07456	0tu07457	0tu07458	0tu07459
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	3.195807e-05	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0

##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu07460	0tu07461	0tu07462	0tu07463	0tu07464	0tu07465	0tu07466
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07467	0tu07468	0tu07469	0tu07470	0tu07471	0tu07472	
##	CSI002	0	0	0	0.000000e+00	0.000000e+00		0
##	CSI013	0	0	0	0.000000e+00	0.000000e+00		0
##	CSI023	0	0	0	0.000000e+00	0.000000e+00		0
##	CSI034	0	0	0	3.789817e-05	0.000000e+00		0
##	CSI045	0	0	0	0.000000e+00	0.000000e+00		0
##	CSI056	0	0	0	0.000000e+00	0.000000e+00		0
##	CSI066	0	0	0	0.000000e+00	1.916847e-05		0
##		0tu07473	0tu07474	0tu07475	0tu07476	0tu07477	0tu07478	0tu07479
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	1.894908e-05	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu07480	0tu07481	0tu07482	0tu07483	0tu07484	0tu07485	0tu07486
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07487	0tu07488	0tu07489	0tu07490	0tu07491	0tu07492	
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##		0tu07493	0tu07494	0tu07495	0tu07496	0tu07497	0tu07498	
##	CSI002	0	1.362194e-05	0.000000e+00	0	0	0.000000e+00	
##	CSI013	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI034	0	0.000000e+00	7.579634e-05	0	0	1.894908e-05	
##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##		0tu07499	0tu07500	0tu07501	0tu07502	0tu07503	0tu07504	0tu07505
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0



##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07506	0tu07507	0tu07508	0tu07509	0tu07510	0tu07511	0tu07512
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07513	0tu07514	0tu07515	0tu07516	0tu07517	0tu07518	0tu07519
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07520	0tu07521	0tu07522	0tu07523	0tu07524	0tu07525	0tu07526
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07527	0tu07528	0tu07529	0tu07530	0tu07531	0tu07532	0tu07533
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		0tu07534	0tu07535	0tu07536	0tu07537	0tu07538	0tu07539	0tu07540
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu07541	0tu07542	0tu07543	0tu07544	0tu07545	0tu07546	0tu07547
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07548	0tu07549	0tu07550	0tu07551	0tu07552	0tu07553	0tu07554

##	CSI002	0	0	0	0	0	1.362194e-05	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu07555	0tu07556	0tu07557	0tu07558	0tu07559	0tu07560	0tu07561
##	CSI002	0	0	0	1.362194e-05	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu07562	0tu07563	0tu07564	0tu07565	0tu07566	0tu07567	0tu07568
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	5.684725e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu07569	0tu07570	0tu07571	0tu07572	0tu07573	0tu07574	0tu07575
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	5.684725e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu07576	0tu07577	0tu07578	0tu07579	0tu07580	0tu07581	
##	CSI002	1.362194e-05	0	0	0	0	0	
##	CSI013	0.000000e+00	0	0	0	0	0	
##	CSI023	0.000000e+00	0	0	0	0	0	
##	CSI034	0.000000e+00	0	0	0	0	0	
##	CSI045	0.000000e+00	0	0	0	0	0	
##	CSI056	0.000000e+00	0	0	0	0	0	
##	CSI066	0.000000e+00	0	0	0	0	0	
##		0tu07582	0tu07583	0tu07584	0tu07585	0tu07586	0tu07587	
##	CSI002	0.0000000000	0	0	0.000000e+00	0	0.000000e+00	
##	CSI013	0.0001597904	0	0	6.391614e-05	0	0.000000e+00	
##	CSI023	0.0000000000	0	0	0.000000e+00	0	0.000000e+00	
##	CSI034	0.0000000000	0	0	0.000000e+00	0	0.000000e+00	
##	CSI045	0.0000000000	0	0	0.000000e+00	0	0.000000e+00	
##	CSI056	0.0000000000	0	0	0.000000e+00	0	0.000000e+00	
##	CSI066	0.0000000000	0	0	0.000000e+00	0	0.000000e+00	
##		0tu07588	0tu07589	0tu07590	0tu07591	0tu07592	0tu07593	
##	CSI002	0	0	1.362194e-05	0	0.000000e+00	0	
##	CSI013	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI034	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0	

##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0
##		0tu07594	0tu07595	0tu07596	0tu07597	0tu07598	0tu07599
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	6.530186e-05	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu07600	0tu07601	0tu07602	0tu07603	0tu07604	0tu07605
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	3.789817e-05	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu07607	0tu07608	0tu07609	0tu07610	0tu07611	0tu07612
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu07614	0tu07615	0tu07616	0tu07617	0tu07618	0tu07619
##	CSI002	0	1.362194e-05	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	1.894908e-05	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu07621	0tu07622	0tu07623	0tu07624	0tu07625	0tu07626
##	CSI002	0	0	1.362194e-05	0.000000e+00	0	0
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI045	0	0	3.265093e-05	0.000000e+00	0	0
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0
##		0tu07627	0tu07628	0tu07629	0tu07630	0tu07631	0tu07632
##	CSI002	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI013	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI034	0	0	0	1.894908e-05	0.000000e+00	0
##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI066	0	0	0	0.000000e+00	0.000000e+00	0
##		0tu07633	0tu07634	0tu07635	0tu07636	0tu07637	0tu07638
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	7.579634e-05	0	0	0	0

##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu07640	0tu07641	0tu07642	0tu07643	0tu07644	0tu07645	0tu07646
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	1.306037e-04	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu07647	0tu07648	0tu07649	0tu07650	0tu07651	0tu07652	
##	CSI002	0.0000000000	0.0000000000	0	0	0	0	
##	CSI013	0.0000000000	0.0000000000	0	0	0	0	
##	CSI023	0.0000000000	0.0000000000	0	0	0	0	
##	CSI034	0.0000000000	0.0000000000	0	0	0	0	
##	CSI045	0.0000000000	0.0000000000	0	0	0	0	
##	CSI056	0.0000000000	0.0000000000	0	0	0	0	
##	CSI066	0.0000000000	0.0000000000	0	0	0	0	
##		0tu07653	0tu07654	0tu07655	0tu07656	0tu07657	0tu07658	
##	CSI002	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI034	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI045	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0	
##		0tu07659	0tu07660	0tu07661	0tu07662	0tu07663	0tu07664	0tu07665
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu07666	0tu07667	0tu07668	0tu07669	0tu07670	0tu07671	0tu07672
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07673	0tu07674	0tu07675	0tu07676	0tu07677	0tu07678	0tu07679
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07680	0tu07681	0tu07682	0tu07683	0tu07684	0tu07685	0tu07686
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0

##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu07687	0tu07688	0tu07689	0tu07690	0tu07691	0tu07692	
##	CSI002	0	0	1.362194e-05	1.362194e-05	0	0	
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI034	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI045	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0	
##		0tu07693	0tu07694	0tu07695	0tu07696	0tu07697	0tu07698	
##	CSI002	0	0.000000e+00	0	0	0	0	
##	CSI013	0	0.000000e+00	0	0	0	0	
##	CSI023	0	0.000000e+00	0	0	0	0	
##	CSI034	0	0.000000e+00	0	0	0	0	
##	CSI045	0	0.000000e+00	0	0	0	0	
##	CSI056	0	1.959286e-05	0	0	0	0	
##	CSI066	0	0.000000e+00	0	0	0	0	
##		0tu07699	0tu07700	0tu07701	0tu07702	0tu07703	0tu07704	
##	CSI002	1.362194e-05	1.362194e-05	0	0	0	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI034	0.000000e+00	1.894908e-05	0	0	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0	
##		0tu07705	0tu07706	0tu07707	0tu07708	0tu07709	0tu07710	
##	CSI002	0	0	0	0	0	1.362194e-05	
##	CSI013	0	0	0	0	0	0.000000e+00	
##	CSI023	0	0	0	0	0	0.000000e+00	
##	CSI034	0	0	0	0	0	0.000000e+00	
##	CSI045	0	0	0	0	0	0.000000e+00	
##	CSI056	0	0	0	0	0	0.000000e+00	
##	CSI066	0	0	0	0	0	0.000000e+00	
##		0tu07711	0tu07712	0tu07713	0tu07714	0tu07715	0tu07716	
##	CSI002	0.000000e+00	0	0	2.724387e-05	0	1.362194e-05	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI034	0.000000e+00	0	0	3.789817e-05	0	5.684725e-05	
##	CSI045	6.530186e-05	0	0	0.000000e+00	0	0.000000e+00	
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##		0tu07717	0tu07718	0tu07719	0tu07720	0tu07721	0tu07722	0tu07723
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu07724	0tu07725	0tu07726	0tu07727	0tu07728	0tu07729	0tu07730

##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu07731	0tu07732	0tu07733	0tu07734	0tu07735	0tu07736	
##	CSI002	0.000000e+00	0	0.000000e+00	0	1.362194e-05	0	
##	CSI013	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI034	1.894908e-05	0	3.789817e-05	0	0.000000e+00	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##		0tu07737	0tu07738	0tu07739	0tu07740	0tu07741	0tu07742	0tu07743
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu07744	0tu07745	0tu07746	0tu07747	0tu07748	0tu07749	
##	CSI002	0	0	0	0.0000000000	0	0	
##	CSI013	0	0	0	0.0000000000	0	0	
##	CSI023	0	0	0	0.0000000000	0	0	
##	CSI034	0	0	0	0.0000000000	0	0	
##	CSI045	0	0	0	0.0000000000	0	0	
##	CSI056	0	0	0	0.0000000000	0	0	
##	CSI066	0	0	0	0.0000000000	0	0	
##		0tu07750	0tu07751	0tu07752	0tu07753	0tu07754	0tu07755	
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI034	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0	
##		0tu07756	0tu07757	0tu07758	0tu07759	0tu07760	0tu07761	
##	CSI002	0	0	0.000000e+00	0	4.086581e-05	0.000000e+00	
##	CSI013	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##		0tu07762	0tu07763	0tu07764	0tu07765	0tu07766	0tu07767	0tu07768
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0

##	CSI066	0	0	0	0	0	0	0
##		0tu07769	0tu07770	0tu07771	0tu07772	0tu07773	0tu07774	0tu07775
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07776	0tu07777	0tu07778	0tu07779	0tu07780	0tu07781	
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI034	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI066	1.916847e-05	0	0.000000e+00	0	0	0	0
##		0tu07782	0tu07783	0tu07784	0tu07785	0tu07786	0tu07787	
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	2.041025e-05	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu07788	0tu07789	0tu07790	0tu07791	0tu07792	0tu07793	
##	CSI002	0.0000000000	0	0	0.000000e+00	0	0	0
##	CSI013	0.0000000000	0	0	0.000000e+00	0	0	0
##	CSI023	0.0000000000	0	0	0.000000e+00	0	0	0
##	CSI034	0.0001136945	0	0	0.000000e+00	0	0	0
##	CSI045	0.0000000000	0	0	0.000000e+00	0	0	0
##	CSI056	0.0000000000	0	0	0.000000e+00	0	0	0
##	CSI066	0.0000000000	0	0	0.000000e+00	0	0	0
##		0tu07794	0tu07795	0tu07796	0tu07797	0tu07798	0tu07799	0tu07800
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07801	0tu07802	0tu07803	0tu07804	0tu07805	0tu07806	
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0	0	3.195807e-05	0	0
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0	0
##	CSI034	7.579634e-05	0	0	0	0.000000e+00	0	0
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0	0
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0	0
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0	0
##		0tu07807	0tu07808	0tu07809	0tu07810	0tu07811	0tu07812	0tu07813
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0

##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	1.959286e-05	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu07814	0tu07815	0tu07816	0tu07817	0tu07818	0tu07819	0tu07820
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07821	0tu07822	0tu07823	0tu07824	0tu07825	0tu07826	
##	CSI002	2.724387e-05	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	3.789817e-05	0	0	0	0	0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0	0
##		0tu07827	0tu07828	0tu07829	0tu07830	0tu07831	0tu07832	
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0	0
##	CSI013	0.000000e+00	0	0	3.195807e-05	0	0	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0	0	0.000000e+00	0	0	0
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0	0
##	CSI066	3.833694e-05	0	0	0.000000e+00	0	0	0
##		0tu07833	0tu07834	0tu07835	0tu07836	0tu07837	0tu07838	0tu07839
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07840	0tu07841	0tu07842	0tu07843	0tu07844	0tu07845	0tu07846
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		0tu07847	0tu07848	0tu07849	0tu07850	0tu07851	0tu07852	0tu07853
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07854	0tu07855	0tu07856	0tu07857	0tu07858	0tu07859	0tu07860
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0



##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu07861	0tu07862	0tu07863	0tu07864	0tu07865	0tu07866
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI013	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI023	0	0	4.082049e-05	0	0.000000e+00	0
##	CSI034	0	0	0.000000e+00	0	5.684725e-05	0
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0
##		0tu07867	0tu07868	0tu07869	0tu07870	0tu07871	0tu07872
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	9.587421e-05
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	1.894908e-05
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu07873	0tu07874	0tu07875	0tu07876	0tu07877	0tu07878
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	1.362194e-05
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	1.894908e-05	0	0.000000e+00	0	0	7.579634e-05
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##		0tu07879	0tu07880	0tu07881	0tu07882	0tu07883	0tu07884
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI013	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI034	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0
##		0tu07885	0tu07886	0tu07887	0tu07888	0tu07889	0tu07890
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	1.894908e-05
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu07892	0tu07893	0tu07894	0tu07895	0tu07896	0tu07897
##	CSI002	0.000000e+00	0	0	0	2.724387e-05	0
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI056	3.918572e-05	0	0	0	0.000000e+00	0
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0
##		0tu07898	0tu07899	0tu07900	0tu07901	0tu07902	0tu07903
##						0tu07904	

##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu07905	0tu07906	0tu07907	0tu07908	0tu07909	0tu07910	0tu07911
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	3.195807e-05	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu07912	0tu07913	0tu07914	0tu07915	0tu07916	0tu07917	0tu07918
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07919	0tu07920	0tu07921	0tu07922	0tu07923	0tu07924	
##	CSI002	0	1.362194e-05	0	0	0	0	
##	CSI013	0	0.000000e+00	0	0	0	0	
##	CSI023	0	0.000000e+00	0	0	0	0	
##	CSI034	0	0.000000e+00	0	0	0	0	
##	CSI045	0	0.000000e+00	0	0	0	0	
##	CSI056	0	0.000000e+00	0	0	0	0	
##	CSI066	0	0.000000e+00	0	0	0	0	
##		0tu07925	0tu07926	0tu07927	0tu07928	0tu07929	0tu07930	
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI034	0.000000e+00	0	1.894908e-05	0	0	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0	
##		0tu07931	0tu07932	0tu07933	0tu07934	0tu07935	0tu07936	0tu07937
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu07938	0tu07939	0tu07940	0tu07941	0tu07942	0tu07943	
##	CSI002	0	0	0.000000e+00	0	0	0	
##	CSI013	0	0	0.000000e+00	0	0	0	
##	CSI023	0	0	0.000000e+00	0	0	0	
##	CSI034	0	0	0.000000e+00	0	0	0	
##	CSI045	0	0	0.000000e+00	0	0	0	
##	CSI056	0	0	3.918572e-05	0	0	0	

##	CSI066	0	0	0.000000e+00	0	0	0
##		0tu07944	0tu07945	0tu07946	0tu07947	0tu07948	0tu07949
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI034	3.789817e-05	0	0	0	1.894908e-05	0
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0
##		0tu07950	0tu07951	0tu07952	0tu07953	0tu07954	0tu07955
##	CSI002	0	0	0	1.362194e-05	2.724387e-05	0
##	CSI013	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI034	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI066	0	0	0	0.000000e+00	0.000000e+00	0
##		0tu07956	0tu07957	0tu07958	0tu07959	0tu07960	0tu07961
##	CSI002	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0.000000e+00	0	0.000000e+00	1.894908e-05	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI066	5.750542e-05	0	0.000000e+00	0.000000e+00	0	0
##		0tu07962	0tu07963	0tu07964	0tu07965	0tu07966	0tu07967
##	CSI002	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI013	0	0	6.391614e-05	0.000000e+00	0	0
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI045	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI056	0	0	0.000000e+00	3.918572e-05	0	0
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0
##		0tu07968	0tu07969	0tu07970	0tu07971	0tu07972	0tu07973
##	CSI002	0.000000e+00	0	5.448775e-05	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	3.918572e-05	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##		0tu07974	0tu07975	0tu07976	0tu07977	0tu07978	0tu07979
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	1.894908e-05	0	0
##	CSI045	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0.000000e+00	0	0
##		0tu07980	0tu07981	0tu07982	0tu07983	0tu07984	0tu07985
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI034	3.789817e-05	0	0	0.000000e+00	0	0

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## CSI045 0.000000e+00      0      0 0.000000e+00      0      0
## CSI056 3.918572e-05      0      0 0.000000e+00      0      0
## CSI066 0.000000e+00      0      0 0.000000e+00      0      0
##      0tu07986 0tu07987 0tu07988 0tu07989 0tu07990 0tu07991      0tu07992
## CSI002      0      0      0      0      0      0 0.000000e+00
## CSI013      0      0      0      0      0      0 0.000000e+00
## CSI023      0      0      0      0      0      0 0.000000e+00
## CSI034      0      0      0      0      0      0 0.000000e+00
## CSI045      0      0      0      0      0      0 0.000000e+00
## CSI056      0      0      0      0      0      0 0.000000e+00
## CSI066      0      0      0      0      0      0 0.000000e+00
##      0tu07993 0tu07994 0tu07995 0tu07996      0tu07997 0tu07998
## CSI002      0      0      0      0 0.000000e+00      0
## CSI013      0      0      0      0 0.000000e+00      0
## CSI023      0      0      0      0 0.000000e+00      0
## CSI034      0      0      0      0 0.000000e+00      0
## CSI045      0      0      0      0 0.000000e+00      0
## CSI056      0      0      0      0 0.000000e+00      0
## CSI066      0      0      0      0 0.000000e+00      0
##      0tu07999 0tu08000      0tu08001      0tu08002 0tu08003 0tu08004
## CSI002 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI013 3.195807e-05      0 0.000000e+00 0.000000e+00      0      0
## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI034 0.000000e+00      0 0.000000e+00 3.789817e-05      0      0
## CSI045 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
## CSI056 0.000000e+00      0 1.959286e-05 0.000000e+00      0      0
## CSI066 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
##      0tu08005 0tu08006 0tu08007 0tu08008 0tu08009 0tu08010 0tu08011
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu08012 0tu08013 0tu08014 0tu08015 0tu08016 0tu08017 0tu08018
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu08019      0tu08020      0tu08021 0tu08022      0tu08023 0tu08024
## CSI002      0 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI013      0 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI023      0 2.041025e-05 0.000000e+00      0 0.000000e+00      0
## CSI034      0 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI045      0 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI056      0 0.000000e+00 0.000000e+00      0 0.000000e+00      0
## CSI066      0 0.000000e+00 1.916847e-05      0 1.916847e-05      0
##      0tu08025 0tu08026 0tu08027 0tu08028 0tu08029 0tu08030      0tu08031
## CSI002      0      0      0      0      0      0 0.000000e+00
## CSI013      0      0      0      0      0      0 0.000000e+00

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##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##	0tu08032	0tu08033	0tu08034	0tu08035	0tu08036	0tu08037		
##	CSI002	0	1.362194e-05	0.000000e+00	0	0	0	
##	CSI013	0	3.195807e-05	3.195807e-05	0	0	0	
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI034	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0	
##	0tu08038	0tu08039	0tu08040	0tu08041	0tu08042	0tu08043	0tu08044	
##	CSI002	0	0	0	0	1.362194e-05	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##	0tu08045	0tu08046	0tu08047	0tu08048	0tu08049	0tu08050		
##	CSI002	4.086581e-05	0	0	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI034	3.789817e-05	0	0	0	0.000000e+00	0	
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0	
##	0tu08051	0tu08052	0tu08053	0tu08054	0tu08055	0tu08056	0tu08057	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	0tu08058	0tu08059	0tu08060	0tu08061	0tu08062	0tu08063	0tu08064	
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	3.833694e-05	0	0
##	0tu08065	0tu08066	0tu08067	0tu08068	0tu08069	0tu08070		
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI023	2.041025e-05	0	0	0	0.000000e+00	0.000000e+00	
##	CSI034	0.000000e+00	0	0	0	5.684725e-05	0.000000e+00	
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0.000000e+00	
##	0tu08071	0tu08072	0tu08073	0tu08074	0tu08075	0tu08076	0tu08077	

##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08078	0tu08079	0tu08080	0tu08081	0tu08082		0tu08083
##	CSI002	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI013	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI034	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI056	1.959286e-05	0	0	0	0	0.000000e+00	
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00	
##		0tu08084	0tu08085	0tu08086	0tu08087	0tu08088	0tu08089	0tu08090
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08091	0tu08092	0tu08093	0tu08094	0tu08095	0tu08096	0tu08097
##	CSI002	0	0	0	0	1.362194e-05	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		0tu08098	0tu08099	0tu08100	0tu08101	0tu08102	0tu08103	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0.000000e+00		0
##	CSI013	3.195807e-05	0.000000e+00	0	0	0.000000e+00		0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0.000000e+00		0
##	CSI034	0.000000e+00	0.000000e+00	0	0	0.000000e+00		0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0.000000e+00		0
##	CSI056	1.959286e-05	3.918572e-05	0	0	0.000000e+00		0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0.000000e+00		0
##		0tu08104	0tu08105	0tu08106	0tu08107	0tu08108	0tu08109	
##	CSI002	0	5.448775e-05	0	0.000000e+00	0		0
##	CSI013	0	0.000000e+00	0	3.195807e-05	0		0
##	CSI023	0	0.000000e+00	0	0.000000e+00	0		0
##	CSI034	0	0.000000e+00	0	0.000000e+00	0		0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0		0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0		0
##	CSI066	0	0.000000e+00	0	0.000000e+00	0		0
##		0tu08110	0tu08111	0tu08112	0tu08113	0tu08114	0tu08115	
##	CSI002	0	1.362194e-05	0.000000e+00	0	0		0
##	CSI013	0	0.000000e+00	0.000000e+00	0	0		0
##	CSI023	0	0.000000e+00	0.000000e+00	0	0		0
##	CSI034	0	0.000000e+00	5.684725e-05	0	0		0
##	CSI045	0	0.000000e+00	0.000000e+00	0	0		0
##	CSI056	0	0.000000e+00	0.000000e+00	0	0		0

##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0
##		0tu08116	0tu08117	0tu08118	0tu08119	0tu08120	0tu08121
##	CSI002	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI034	0	1.894908e-05	0	0.000000e+00	0	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI066	0	0.000000e+00	0	3.833694e-05	0	0
##		0tu08122	0tu08123	0tu08124	0tu08125	0tu08126	0tu08127
##	CSI002	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	3.195807e-05	0
##	CSI023	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0.000000e+00	0
##		0tu08128	0tu08129	0tu08130	0tu08131	0tu08132	0tu08133
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	1.959286e-05	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu08134	0tu08135	0tu08136	0tu08137	0tu08138	0tu08139
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0	3.195807e-05	0	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI034	1.894908e-05	0	0	0.000000e+00	0	0
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0
##		0tu08140	0tu08141	0tu08142	0tu08143	0tu08144	0tu08145
##	CSI002	2.724387e-05	0	0.000000e+00	0	0	4.086581e-05
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	0.000000e+00	0	1.894908e-05	0	0	3.789817e-05
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0.000000e+00
##		0tu08146	0tu08147	0tu08148	0tu08149	0tu08150	0tu08151
##	CSI002	0	1.362194e-05	0.000000e+00	0	0	0.000000e+00
##	CSI013	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI034	0	0.000000e+00	7.579634e-05	0	0	0.000000e+00
##	CSI045	0	0.000000e+00	0.000000e+00	0	0	3.265093e-05
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00
##		0tu08152	0tu08153	0tu08154	0tu08155	0tu08156	0tu08157
##	CSI002	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI013	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI034	0	1.894908e-05	0.000000e+00	0	0	0

##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI066	0	0.000000e+00	1.916847e-05	0	0	0
##		0tu08158	0tu08159	0tu08160	0tu08161	0tu08162	0tu08163
##	CSI002	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI045	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI056	0	0	1.959286e-05	0.000000e+00	0	0
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0
##		0tu08164	0tu08165	0tu08166	0tu08167	0tu08168	0tu08169
##	CSI002	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	1.894908e-05	0
##	CSI045	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0.000000e+00	0
##		0tu08171	0tu08172	0tu08173	0tu08174	0tu08175	0tu08176
##	CSI002	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	1.894908e-05	0
##	CSI045	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0.000000e+00	0
##		0tu08177	0tu08178	0tu08179	0tu08180	0tu08181	0tu08182
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI034	1.894908e-05	0	0	0.000000e+00	0	0
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0
##	CSI056	0.000000e+00	0	0	1.959286e-05	0	0
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0
##		0tu08183	0tu08184	0tu08185	0tu08186	0tu08187	0tu08188
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu08190	0tu08191	0tu08192	0tu08193	0tu08194	0tu08195
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu08197	0tu08198	0tu08199	0tu08200	0tu08201	0tu08202
##	CSI002	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI013	0	0	0.000000e+00	0	0	3.195807e-05



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## CSI023      0      0 0.000000e+00      0      0 0.000000e+00
## CSI034      0      0 0.000000e+00      0      0 0.000000e+00
## CSI045      0      0 0.000000e+00      0      0 0.000000e+00
## CSI056      0      0 0.000000e+00      0      0 0.000000e+00
## CSI066      0      0 0.000000e+00      0      0 0.000000e+00
##      0tu08203 0tu08204 0tu08205 0tu08206 0tu08207 0tu08208 0tu08209
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu08210 0tu08211 0tu08212 0tu08213 0tu08214 0tu08215      0tu08216
## CSI002      0      0      0      0      0      0 0.0000000000
## CSI013      0      0      0      0      0      0 0.0000000000
## CSI023      0      0      0      0      0      0 0.0000000000
## CSI034      0      0      0      0      0      0 0.0000000000
## CSI045      0      0      0      0      0      0 0.0000000000
## CSI056      0      0      0      0      0      0 0.0000000000
## CSI066      0      0      0      0      0      0 0.0000000000
##      0tu08217 0tu08218 0tu08219 0tu08220 0tu08221 0tu08222 0tu08223
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu08224 0tu08225 0tu08226 0tu08227 0tu08228 0tu08229 0tu08230
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu08231 0tu08232 0tu08233 0tu08234      0tu08235 0tu08236
## CSI002 0.000000e+00      0      0      0 0.000000e+00      0
## CSI013 0.000000e+00      0      0      0 0.000000e+00      0
## CSI023 0.000000e+00      0      0      0 0.000000e+00      0
## CSI034 1.894908e-05      0      0      0 0.000000e+00      0
## CSI045 0.000000e+00      0      0      0 0.000000e+00      0
## CSI056 0.000000e+00      0      0      0 0.000000e+00      0
## CSI066 0.000000e+00      0      0      0 0.000000e+00      0
##      0tu08237 0tu08238 0tu08239 0tu08240 0tu08241 0tu08242 0tu08243
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu08244 0tu08245 0tu08246 0tu08247 0tu08248 0tu08249 0tu08250

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##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu08251	0tu08252	0tu08253	0tu08254	0tu08255	0tu08256
##	CSI002	0.000000e+00	0	2.724387e-05	0	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI045	3.265093e-05	0	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0
##		0tu08257	0tu08258	0tu08259	0tu08260	0tu08261	0tu08262
##	CSI002	0.000000e+00	0	0	0.0000000000	0	0.000000e+00
##	CSI013	3.195807e-05	0	0	0.0000000000	0	0.000000e+00
##	CSI023	0.000000e+00	0	0	0.0000000000	0	0.000000e+00
##	CSI034	0.000000e+00	0	0	0.0000000000	0	0.000000e+00
##	CSI045	0.000000e+00	0	0	0.0001632546	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0.0000000000	0	0.000000e+00
##	CSI066	0.000000e+00	0	0	0.0000000000	0	0.000000e+00
##		0tu08263	0tu08264	0tu08265	0tu08266	0tu08267	0tu08268
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu08270	0tu08271	0tu08272	0tu08273	0tu08274	0tu08275
##	CSI002	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0.000000e+00	0
##		0tu08276	0tu08277	0tu08278	0tu08279	0tu08280	0tu08281
##	CSI002	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI013	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI034	1.894908e-05	0	0	0	0	0.000000e+00
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu08282	0tu08283	0tu08284	0tu08285	0tu08286	0tu08287
##	CSI002	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	3.789817e-05	0
##	CSI045	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0.000000e+00	0

##	CSI066	0	0	0	0	0.000000e+00	0	0
##		0tu08289	0tu08290	0tu08291	0tu08292	0tu08293	0tu08294	0tu08295
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08296	0tu08297	0tu08298	0tu08299	0tu08300	0tu08301	0tu08302
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08303	0tu08304	0tu08305	0tu08306	0tu08307		
##	CSI002	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI013	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI023	0	0.000000e+00	2.041025e-05	0.000000e+00	0.000000e+00		
##	CSI034	0	0.000000e+00	0.000000e+00	0.000000e+00	3.789817e-05		
##	CSI045	0	3.265093e-05	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI056	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		
##	CSI066	0	0.000000e+00	0.000000e+00	1.916847e-05	0.000000e+00		
##		0tu08308	0tu08309	0tu08310	0tu08311	0tu08312	0tu08313	
##	CSI002	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI013	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI023	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI034	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI045	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI056	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI066	0	0	0	5.750542e-05	0	3.833694e-05	
##		0tu08314	0tu08315	0tu08316	0tu08317	0tu08318	0tu08319	
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	5.448775e-05	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI023	2.041025e-05	0	0	2.041025e-05	0	0.000000e+00	
##	CSI034	0.000000e+00	0	0	1.894908e-05	0	0.000000e+00	
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0.000000e+00	
##		0tu08320	0tu08321	0tu08322	0tu08323	0tu08324	0tu08325	
##	CSI002	2.724387e-05	0	0.000000e+00	0	0	0	
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI034	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI056	0.000000e+00	0	5.877858e-05	0	0	0	
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0	
##		0tu08326	0tu08327	0tu08328	0tu08329	0tu08330	0tu08331	0tu08332
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0

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## CSI045      0      0      0      0 0.000000e+00      0      0
## CSI056      0      0      0      0 0.000000e+00      0      0
## CSI066      0      0      0      0 0.000000e+00      0      0
##      0tu08333 0tu08334 0tu08335 0tu08336      0tu08337 0tu08338
## CSI002      0      0      0      0 0.0000000000      0
## CSI013      0      0      0      0 0.0001278323      0
## CSI023      0      0      0      0 0.0000000000      0
## CSI034      0      0      0      0 0.0000000000      0
## CSI045      0      0      0      0 0.0000000000      0
## CSI056      0      0      0      0 0.0000000000      0
## CSI066      0      0      0      0 0.0000000000      0
##      0tu08339 0tu08340 0tu08341 0tu08342      0tu08343      0tu08344
## CSI002 1.362194e-05      0      0      0 0.000000e+00 5.448775e-05
## CSI013 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI023 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI034 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI045 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
## CSI066 0.000000e+00      0      0      0 0.000000e+00 0.000000e+00
##      0tu08345      0tu08346 0tu08347 0tu08348 0tu08349 0tu08350
## CSI002      0 0.000000e+00      0      0      0      0
## CSI013      0 0.000000e+00      0      0      0      0
## CSI023      0 0.000000e+00      0      0      0      0
## CSI034      0 3.789817e-05      0      0      0      0
## CSI045      0 0.000000e+00      0      0      0      0
## CSI056      0 0.000000e+00      0      0      0      0
## CSI066      0 0.000000e+00      0      0      0      0
##      0tu08351      0tu08352      0tu08353      0tu08354 0tu08355
## CSI002 1.362194e-05 0.000000e+00 0.000000e+00 1.362194e-05      0
## CSI013 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI023 0.000000e+00 4.082049e-05 0.000000e+00 0.000000e+00      0
## CSI034 1.894908e-05 0.000000e+00 0.000000e+00 1.894908e-05      0
## CSI045 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI056 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
## CSI066 0.000000e+00 0.000000e+00 0.000000e+00 0.000000e+00      0
##      0tu08356 0tu08357 0tu08358 0tu08359      0tu08360 0tu08361 0tu08362
## CSI002      0      0      0      0 0.000000e+00      0      0
## CSI013      0      0      0      0 0.000000e+00      0      0
## CSI023      0      0      0      0 0.000000e+00      0      0
## CSI034      0      0      0      0 0.000000e+00      0      0
## CSI045      0      0      0      0 3.265093e-05      0      0
## CSI056      0      0      0      0 0.000000e+00      0      0
## CSI066      0      0      0      0 0.000000e+00      0      0
##      0tu08363 0tu08364 0tu08365 0tu08366 0tu08367 0tu08368 0tu08369
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu08370      0tu08371 0tu08372 0tu08373 0tu08374 0tu08375
## CSI002 1.362194e-05 1.362194e-05      0      0      0      0
## CSI013 0.000000e+00 3.195807e-05      0      0      0      0

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## CSI023 0.000000e+00 0.000000e+00      0      0      0      0
## CSI034 0.000000e+00 1.894908e-05      0      0      0      0
## CSI045 0.000000e+00 0.000000e+00      0      0      0      0
## CSI056 0.000000e+00 0.000000e+00      0      0      0      0
## CSI066 0.000000e+00 0.000000e+00      0      0      0      0
##      0tu08376      0tu08377 0tu08378 0tu08379 0tu08380 0tu08381 0tu08382
## CSI002      0 1.362194e-05      0      0      0      0      0
## CSI013      0 0.000000e+00      0      0      0      0      0
## CSI023      0 0.000000e+00      0      0      0      0      0
## CSI034      0 0.000000e+00      0      0      0      0      0
## CSI045      0 0.000000e+00      0      0      0      0      0
## CSI056      0 0.000000e+00      0      0      0      0      0
## CSI066      0 0.000000e+00      0      0      0      0      0
##      0tu08383      0tu08384 0tu08385 0tu08386 0tu08387 0tu08388 0tu08389
## CSI002      0 0.000000e+00      0      0      0      0      0
## CSI013      0 0.000000e+00      0      0      0      0      0
## CSI023      0 0.000000e+00      0      0      0      0      0
## CSI034      0 0.000000e+00      0      0      0      0      0
## CSI045      0 0.000000e+00      0      0      0      0      0
## CSI056      0 1.959286e-05      0      0      0      0      0
## CSI066      0 0.000000e+00      0      0      0      0      0
##      0tu08390 0tu08391 0tu08392 0tu08393 0tu08394 0tu08395 0tu08396
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu08397 0tu08398 0tu08399 0tu08400 0tu08401 0tu08402 0tu08403
## CSI002 1.362194e-05      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu08404 0tu08405 0tu08406      0tu08407      0tu08408 0tu08409
## CSI002      0      0      0 0.000000e+00 1.362194e-05      0
## CSI013      0      0      0 0.000000e+00 0.000000e+00      0
## CSI023      0      0      0 0.000000e+00 0.000000e+00      0
## CSI034      0      0      0 0.000000e+00 0.000000e+00      0
## CSI045      0      0      0 0.000000e+00 6.530186e-05      0
## CSI056      0      0      0 0.000000e+00 0.000000e+00      0
## CSI066      0      0      0 1.916847e-05 0.000000e+00      0
##      0tu08410 0tu08411      0tu08412 0tu08413      0tu08414
## CSI002 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI013 0.000000e+00      0 0.000000e+00      0 3.195807e-05
## CSI023 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI034 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI045 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI056 0.000000e+00      0 0.000000e+00      0 0.000000e+00
## CSI066 0.000000e+00      0 0.000000e+00      0 0.000000e+00
##      0tu08415      0tu08416 0tu08417 0tu08418      0tu08419 0tu08420

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##	CSI002	4.086581e-05	0.000000e+00	0	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI034	0.000000e+00	0.000000e+00	0	0	1.894908e-05	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##		0tu08421	0tu08422	0tu08423	0tu08424	0tu08425	0tu08426	
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI034	0.000000e+00	0	0	0	1.894908e-05	0	
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0	
##		0tu08427	0tu08428	0tu08429	0tu08430	0tu08431	0tu08432	0tu08433
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08434	0tu08435	0tu08436	0tu08437	0tu08438	0tu08439	
##	CSI002	0	0	0	0	0	0.000000e+00	
##	CSI013	0	0	0	0	0	0.000000e+00	
##	CSI023	0	0	0	0	0	0.000000e+00	
##	CSI034	0	0	0	0	0	0.000000e+00	
##	CSI045	0	0	0	0	0	0.000000e+00	
##	CSI056	0	0	0	0	0	0.000000e+00	
##	CSI066	0	0	0	0	0	1.916847e-05	
##		0tu08440	0tu08441	0tu08442	0tu08443	0tu08444	0tu08445	
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI023	2.041025e-05	0	0.000000e+00	0	0	0	
##	CSI034	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI056	1.959286e-05	0	0.000000e+00	0	0	0	
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0	
##		0tu08446	0tu08447	0tu08448	0tu08449	0tu08450	0tu08451	0tu08452
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	3.265093e-05	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu08453	0tu08454	0tu08455	0tu08456	0tu08457	0tu08458	0tu08459
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	1.959286e-05	0	0	0	0	0	0

##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu08460	0tu08461	0tu08462	0tu08463	0tu08464	0tu08465	
##	CSI002	0	0	0.000000e+00	1.362194e-05	0	0	
##	CSI013	0	0	0.000000e+00	6.391614e-05	0	0	
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI034	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI045	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0	
##		0tu08466	0tu08467	0tu08468	0tu08469	0tu08470	0tu08471	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	2.724387e-05	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI023	0.000000e+00	8.164098e-05	0	0	0	0.000000e+00	
##	CSI034	1.894908e-05	0.000000e+00	0	0	0	0.000000e+00	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##		0tu08472	0tu08473	0tu08474	0tu08475	0tu08476	0tu08477	
##	CSI002	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI034	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI066	0	1.916847e-05	0	0.000000e+00	0	0	
##		0tu08478	0tu08479	0tu08480	0tu08481	0tu08482	0tu08483	
##	CSI002	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0	3.195807e-05	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI034	0.000000e+00	0	1.894908e-05	0	0.000000e+00	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	7.837144e-05	0	0.000000e+00	0	5.877858e-05	0	
##	CSI066	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##		0tu08484	0tu08485	0tu08486	0tu08487	0tu08488	0tu08489	0tu08490
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08491	0tu08492	0tu08493	0tu08494	0tu08495	0tu08496	0tu08497
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	1.894908e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu08498	0tu08499	0tu08500	0tu08501	0tu08502	0tu08503	0tu08504
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0

##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08505	0tu08506	0tu08507	0tu08508	0tu08509	0tu08510	0tu08511
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08512	0tu08513	0tu08514	0tu08515	0tu08516	0tu08517	0tu08518
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	1.894908e-05	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		0tu08519	0tu08520	0tu08521	0tu08522	0tu08523	0tu08524	0tu08525
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	5.684725e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu08526	0tu08527	0tu08528	0tu08529	0tu08530	0tu08531	0tu08532
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	3.918572e-05	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu08533	0tu08534	0tu08535	0tu08536	0tu08537	0tu08538	0tu08539
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	1.916847e-05	0	0	0	0	0	0
##		0tu08540	0tu08541	0tu08542	0tu08543	0tu08544	0tu08545	
##	CSI002	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI013	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI034	0	0.000000e+00	1.894908e-05	0	0	0.000000e+00	
##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0.000000e+00	
##		0tu08546	0tu08547	0tu08548	0tu08549	0tu08550	0tu08551	0tu08552
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0



##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		0tu08553	0tu08554	0tu08555	0tu08556	0tu08557	0tu08558	0tu08559
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	3.833694e-05	0	0
##		0tu08560	0tu08561	0tu08562	0tu08563	0tu08564	0tu08565	0tu08566
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08567	0tu08568	0tu08569	0tu08570	0tu08571	0tu08572	
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI034	1.894908e-05	0	7.579634e-05	0	0	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0	0
##		0tu08573	0tu08574	0tu08575	0tu08576	0tu08577	0tu08578	0tu08579
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08580	0tu08581	0tu08582	0tu08583	0tu08584	0tu08585	
##	CSI002	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0	0	0.000000e+00	3.918572e-05	
##	CSI066	0	0	0	0	7.667389e-05	0.000000e+00	
##		0tu08586	0tu08587	0tu08588	0tu08589	0tu08590	0tu08591	0tu08592
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08593	0tu08594	0tu08595	0tu08596	0tu08597	0tu08598	0tu08599

##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08600	0tu08601	0tu08602	0tu08603	0tu08604	0tu08605	0tu08606
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08607	0tu08608	0tu08609	0tu08610	0tu08611	0tu08612	0tu08613
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08614	0tu08615	0tu08616	0tu08617	0tu08618	0tu08619	0tu08620
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	3.789817e-05	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		0tu08621	0tu08622	0tu08623	0tu08624	0tu08625	0tu08626	0tu08627
##	CSI002	1.362194e-05	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu08628	0tu08629	0tu08630	0tu08631	0tu08632	0tu08633	0tu08634
##	CSI002	0	1.362194e-05	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu08635	0tu08636	0tu08637	0tu08638	0tu08639	0tu08640	
##	CSI002	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0	0	3.195807e-05	0.000000e+00	
##	CSI023	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0	0	0.000000e+00	3.265093e-05	
##	CSI056	0	0	0	0	0.000000e+00	0.000000e+00	

##	CSI066	0	0	0	0	0.000000e+00	0.000000e+00
##		0tu08641	0tu08642	0tu08643	0tu08644	0tu08645	0tu08646 0tu08647
##	CSI002	4.086581e-05	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu08648	0tu08649	0tu08650	0tu08651	0tu08652	0tu08653
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	3.918572e-05	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu08654	0tu08655	0tu08656	0tu08657	0tu08658	0tu08659
##	CSI002	0.000000e+00	0	1.362194e-05	0	0	0
##	CSI013	3.195807e-05	0	9.587421e-05	0	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0
##		0tu08660	0tu08661	0tu08662	0tu08663	0tu08664	0tu08665 0tu08666
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu08667	0tu08668	0tu08669	0tu08670	0tu08671	0tu08672 0tu08673
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu08674	0tu08675	0tu08676	0tu08677	0tu08678	0tu08679 0tu08680
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu08681	0tu08682	0tu08683	0tu08684	0tu08685	0tu08686 0tu08687
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	1.894908e-05	0	0	0	0

##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu08688	0tu08689	0tu08690	0tu08691	0tu08692	0tu08693	0tu08694
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08695	0tu08696	0tu08697	0tu08698	0tu08699	0tu08700	
##	CSI002	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI034	0	0.000000e+00	0	1.894908e-05	0	0	
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI066	0	0.000000e+00	0	0.000000e+00	0	0	
##		0tu08701	0tu08702	0tu08703	0tu08704	0tu08705	0tu08706	0tu08707
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	1.894908e-05
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu08708	0tu08709	0tu08710	0tu08711	0tu08712	0tu08713	
##	CSI002	0.000000e+00	0	0	0	0	0	
##	CSI013	0.000000e+00	0	0	0	0	0	
##	CSI023	0.000000e+00	0	0	0	0	0	
##	CSI034	1.894908e-05	0	0	0	0	0	
##	CSI045	0.000000e+00	0	0	0	0	0	
##	CSI056	0.000000e+00	0	0	0	0	0	
##	CSI066	0.000000e+00	0	0	0	0	0	
##		0tu08714	0tu08715	0tu08716	0tu08717	0tu08718	0tu08719	0tu08720
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu08721	0tu08722	0tu08723	0tu08724	0tu08725	0tu08726	0tu08727
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu08728	0tu08729	0tu08730	0tu08731	0tu08732	0tu08733	0tu08734
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00

##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	1.894908e-05
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu08735	0tu08736	0tu08737	0tu08738	0tu08739	0tu08740	0tu08741
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08742	0tu08743	0tu08744	0tu08745	0tu08746	0tu08747	
##	CSI002	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI013	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI023	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI034	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI045	0	3.265093e-05	0	0	6.530186e-05	0	
##	CSI056	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI066	0	0.000000e+00	0	0	0.000000e+00	0	
##		0tu08748	0tu08749	0tu08750	0tu08751	0tu08752	0tu08753	0tu08754
##	CSI002	4.086581e-05	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu08755	0tu08756	0tu08757	0tu08758	0tu08759	0tu08760	0tu08761
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08762	0tu08763	0tu08764	0tu08765	0tu08766	0tu08767	0tu08768
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	3.789817e-05	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu08769	0tu08770	0tu08771	0tu08772	0tu08773	0tu08774	0tu08775
##	CSI002	0	0	0	0	0	0	2.724387e-05
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu08776	0tu08777	0tu08778	0tu08779	0tu08780	0tu08781	0tu08782

##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	3.195807e-05	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	3.833694e-05	0	0	0	0	0	0
##		0tu08783	0tu08784	0tu08785	0tu08786	0tu08787	0tu08788	0tu08789
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08790	0tu08791	0tu08792	0tu08793	0tu08794	0tu08795	0tu08796
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	9.587421e-05	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		0tu08797	0tu08798	0tu08799	0tu08800	0tu08801	0tu08802	0tu08803
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08804	0tu08805	0tu08806	0tu08807	0tu08808	0tu08809	
##	CSI002	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI013	0	0	0	0.000000e+00	0	3.195807e-05	
##	CSI023	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI034	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI045	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI056	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI066	0	0	0	0.000000e+00	0	0.000000e+00	
##		0tu08810	0tu08811	0tu08812	0tu08813	0tu08814	0tu08815	0tu08816
##	CSI002	0	0	0	0	0	1.362194e-05	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	1.894908e-05	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu08817	0tu08818	0tu08819	0tu08820	0tu08821	0tu08822	0tu08823
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	3.195807e-05	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0

## CSI066	0	0	0	0	0	0.000000e+00	0
##	0tu08824	0tu08825	0tu08826	0tu08827	0tu08828	0tu08829	0tu08830
## CSI002	0	0	0	0	0	0	0
## CSI013	0	0	0	0	0	0	0
## CSI023	0	0	0	0	0	0	0
## CSI034	0	0	0	0	0	0	0
## CSI045	0	0	0	0	0	0	0
## CSI056	0	0	0	0	0	0	0
## CSI066	0	0	0	0	0	0	0
##	0tu08831	0tu08832	0tu08833	0tu08834	0tu08835	0tu08836	0tu08837
## CSI002	0	0	0	0	0	0	0
## CSI013	0	0	0	0	0	0	0
## CSI023	0	0	0	0	0	0	0
## CSI034	0	0	0	0	0	0	0
## CSI045	0	0	0	0	0	0	0
## CSI056	0	0	0	0	0	0	0
## CSI066	0	0	0	0	0	0	0
##	0tu08838	0tu08839	0tu08840	0tu08841	0tu08842	0tu08843	0tu08844
## CSI002	0	0	0	0	0	0	0
## CSI013	0	0	0	0	0	0	0
## CSI023	0	0	0	0	0	0	0
## CSI034	0	0	0	0	0	0	0
## CSI045	0	0	0	0	0	0	0
## CSI056	0	0	0	0	0	0	0
## CSI066	0	0	0	0	0	0	0
##	0tu08845	0tu08846	0tu08847	0tu08848	0tu08849	0tu08850	
## CSI002	0.000000e+00	0.000000e+00	4.086581e-05	0	0	0	
## CSI013	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
## CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
## CSI034	0.000000e+00	1.894908e-05	0.000000e+00	0	0	0	
## CSI045	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
## CSI056	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
## CSI066	0.000000e+00	0.000000e+00	0.000000e+00	0	0	0	
##	0tu08851	0tu08852	0tu08853	0tu08854	0tu08855	0tu08856	
## CSI002	0.000000e+00	0	0.000000e+00	0	0	0	
## CSI013	9.587421e-05	0	0.000000e+00	0	0	0	
## CSI023	0.000000e+00	0	0.000000e+00	0	0	0	
## CSI034	0.000000e+00	0	0.000000e+00	0	0	0	
## CSI045	0.000000e+00	0	0.000000e+00	0	0	0	
## CSI056	0.000000e+00	0	1.959286e-05	0	0	0	
## CSI066	0.000000e+00	0	0.000000e+00	0	0	0	
##	0tu08857	0tu08858	0tu08859	0tu08860	0tu08861	0tu08862	
## CSI002	0.000000e+00	0	0.000000e+00	0	0	0	
## CSI013	0.000000e+00	0	0.000000e+00	0	0	0	
## CSI023	0.000000e+00	0	0.000000e+00	0	0	0	
## CSI034	3.789817e-05	0	3.789817e-05	0	0	0	
## CSI045	0.000000e+00	0	0.000000e+00	0	0	0	
## CSI056	0.000000e+00	0	0.000000e+00	0	0	0	
## CSI066	0.000000e+00	0	0.000000e+00	0	0	0	
##	0tu08863	0tu08864	0tu08865	0tu08866	0tu08867	0tu08868	
## CSI002	0	0	0.000000e+00	0	0	0	
## CSI013	0	0	3.195807e-05	0	0	0	
## CSI023	0	0	0.000000e+00	0	0	0	
## CSI034	0	0	3.789817e-05	0	0	0	

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## CSI045      0      0 0.000000e+00      0      0      0
## CSI056      0      0 0.000000e+00      0      0      0
## CSI066      0      0 0.000000e+00      0      0      0
##      0tu08869 0tu08870      0tu08871      0tu08872      0tu08873
## CSI002 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI013 3.195807e-05      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI023 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI034 0.000000e+00      0 3.789817e-05 0.000000e+00 0.000000e+00
## CSI045 0.000000e+00      0 0.000000e+00 0.000000e+00 0.000000e+00
## CSI056 0.000000e+00      0 0.000000e+00 0.000000e+00 1.959286e-05
## CSI066 0.000000e+00      0 0.000000e+00 3.833694e-05 0.000000e+00
##      0tu08874 0tu08875 0tu08876      0tu08877 0tu08878 0tu08879 0tu08880
## CSI002      0      0      0 0.000000e+00      0      0      0
## CSI013      0      0      0 0.000000e+00      0      0      0
## CSI023      0      0      0 0.000000e+00      0      0      0
## CSI034      0      0      0 0.000000e+00      0      0      0
## CSI045      0      0      0 0.000000e+00      0      0      0
## CSI056      0      0      0 0.000000e+00      0      0      0
## CSI066      0      0      0 0.000000e+00      0      0      0
##      0tu08881 0tu08882 0tu08883      0tu08884 0tu08885 0tu08886
## CSI002 0.000000e+00      0      0 0.000000e+00      0      0
## CSI013 0.000000e+00      0      0 0.000000e+00      0      0
## CSI023 2.041025e-05      0      0 0.000000e+00      0      0
## CSI034 0.000000e+00      0      0 3.789817e-05      0      0
## CSI045 0.000000e+00      0      0 0.000000e+00      0      0
## CSI056 0.000000e+00      0      0 0.000000e+00      0      0
## CSI066 0.000000e+00      0      0 0.000000e+00      0      0
##      0tu08887 0tu08888 0tu08889 0tu08890 0tu08891 0tu08892 0tu08893
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu08894 0tu08895 0tu08896 0tu08897 0tu08898 0tu08899 0tu08900
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu08901 0tu08902 0tu08903      0tu08904 0tu08905 0tu08906 0tu08907
## CSI002      0      0      0 0.000000e+00      0      0      0
## CSI013      0      0      0 0.000000e+00      0      0      0
## CSI023      0      0      0 0.000000e+00      0      0      0
## CSI034      0      0      0 1.894908e-05      0      0      0
## CSI045      0      0      0 0.000000e+00      0      0      0
## CSI056      0      0      0 0.000000e+00      0      0      0
## CSI066      0      0      0 0.000000e+00      0      0      0
##      0tu08908 0tu08909 0tu08910 0tu08911 0tu08912      0tu08913 0tu08914
## CSI002      0      0      0      0      0 0.000000e+00      0
## CSI013      0      0      0      0      0 0.000000e+00      0

```



##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	5.877858e-05	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu08915	0tu08916	0tu08917	0tu08918	0tu08919	0tu08920	0tu08921
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08922	0tu08923	0tu08924	0tu08925	0tu08926	0tu08927	0tu08928
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08929	0tu08930	0tu08931	0tu08932	0tu08933	0tu08934	0tu08935
##	CSI002	0	0	0	0	4.086581e-05	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		0tu08936	0tu08937	0tu08938	0tu08939	0tu08940	0tu08941	0tu08942
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08943	0tu08944	0tu08945	0tu08946	0tu08947	0tu08948	0tu08949
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	3.195807e-05
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu08950	0tu08951	0tu08952	0tu08953	0tu08954	0tu08955	0tu08956
##	CSI002	0	0	0	0	0	1.362194e-05	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu08957	0tu08958	0tu08959	0tu08960	0tu08961	0tu08962	0tu08963

##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu08964	0tu08965	0tu08966	0tu08967	0tu08968	0tu08969	0tu08970
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	9.587421e-05	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu08971	0tu08972	0tu08973	0tu08974	0tu08975	0tu08976	0tu08977
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08978	0tu08979	0tu08980	0tu08981	0tu08982	0tu08983	0tu08984
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08985	0tu08986	0tu08987	0tu08988	0tu08989	0tu08990	0tu08991
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu08992	0tu08993	0tu08994	0tu08995	0tu08996	0tu08997	0tu08998
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu08999	0tu09000	0tu09001	0tu09002	0tu09003	0tu09004	0tu09005
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0

##	CSI066	0	0	0	0	0	0	0
##		0tu09006	0tu09007	0tu09008	0tu09009	0tu09010	0tu09011	0tu09012
##	CSI002	0	0	1.362194e-05	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu09013	0tu09014	0tu09015	0tu09016	0tu09017	0tu09018	0tu09019
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	6.391614e-05
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu09020	0tu09021	0tu09022	0tu09023	0tu09024	0tu09025	0tu09026
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	7.837144e-05	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu09027	0tu09028	0tu09029	0tu09030	0tu09031	0tu09032	0tu09033
##	CSI002	0	0.0000000000	0	0	0	0	0
##	CSI013	0	0.0000000000	0	0	0	0	0
##	CSI023	0	0.0000000000	0	0	0	0	0
##	CSI034	0	0.0000000000	0	0	0	0	0
##	CSI045	0	0.0000000000	0	0	0	0	0
##	CSI056	0	0.0000000000	0	0	0	0	0
##	CSI066	0	0.0000000000	0	0	0	0	0
##		0tu09034	0tu09035	0tu09036	0tu09037	0tu09038	0tu09039	0tu09040
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09041	0tu09042	0tu09043	0tu09044	0tu09045	0tu09046	
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI013	0	0	3.195807e-05	0	0.000000e+00	0	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI034	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0	
##		0tu09047	0tu09048	0tu09049	0tu09050	0tu09051	0tu09052	0tu09053
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0

##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	0tu09054	0tu09055	0tu09056	0tu09057	0tu09058	0tu09059	0tu09060	
##	CSI002	0 5.448775e-05	0	0	0	0	0	0
##	CSI013	0 0.000000e+00	0	0	0	0	0	0
##	CSI023	0 0.000000e+00	0	0	0	0	0	0
##	CSI034	0 0.000000e+00	0	0	0	0	0	0
##	CSI045	0 0.000000e+00	0	0	0	0	0	0
##	CSI056	0 0.000000e+00	0	0	0	0	0	0
##	CSI066	0 0.000000e+00	0	0	0	0	0	0
##	0tu09061	0tu09062	0tu09063	0tu09064	0tu09065	0tu09066	0tu09067	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	0tu09068	0tu09069	0tu09070	0tu09071	0tu09072	0tu09073	0tu09074	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	0tu09075	0tu09076	0tu09077	0tu09078	0tu09079	0tu09080	0tu09081	
##	CSI002	0	0	0	0	0 0.000000e+00	0	0
##	CSI013	0	0	0	0	0 0.000000e+00	0	0
##	CSI023	0	0	0	0	0 2.041025e-05	0	0
##	CSI034	0	0	0	0	0 0.000000e+00	0	0
##	CSI045	0	0	0	0	0 0.000000e+00	0	0
##	CSI056	0	0	0	0	0 0.000000e+00	0	0
##	CSI066	0	0	0	0	0 0.000000e+00	0	0
##	0tu09082	0tu09083	0tu09084	0tu09085	0tu09086	0tu09087	0tu09088	
##	CSI002	0	0 0.000000e+00	0	0	0	0	0
##	CSI013	0	0 0.000000e+00	0	0	0	0	0
##	CSI023	0	0 0.000000e+00	0	0	0	0	0
##	CSI034	0	0 0.000000e+00	0	0	0	0	0
##	CSI045	0	0 3.265093e-05	0	0	0	0	0
##	CSI056	0	0 0.000000e+00	0	0	0	0	0
##	CSI066	0	0 0.000000e+00	0	0	0	0	0
##	0tu09089	0tu09090	0tu09091	0tu09092	0tu09093	0tu09094	0tu09095	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	0tu09096	0tu09097	0tu09098	0tu09099	0tu09100	0tu09101		
##	CSI002	1.362194e-05	0	0	0	0 0.000000e+00		
##	CSI013	0.000000e+00	0	0	0	0 0.000000e+00		

##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI034	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	0	7.837144e-05
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu09102	0tu09103	0tu09104	0tu09105	0tu09106	0tu09107 0tu09108
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu09109	0tu09110	0tu09111	0tu09112	0tu09113	0tu09114 0tu09115
##	CSI002	0	0	0	0	0	0 0.000000e+00
##	CSI013	0	0	0	0	0	0 0.000000e+00
##	CSI023	0	0	0	0	0	0 0.000000e+00
##	CSI034	0	0	0	0	0	0 1.894908e-05
##	CSI045	0	0	0	0	0	0 0.000000e+00
##	CSI056	0	0	0	0	0	0 0.000000e+00
##	CSI066	0	0	0	0	0	0 0.000000e+00
##		0tu09116	0tu09117	0tu09118	0tu09119	0tu09120	0tu09121 0tu09122
##	CSI002	0	0	0	0	0	2.724387e-05 0
##	CSI013	0	0	0	0	0	0.000000e+00 0
##	CSI023	0	0	0	0	0	0.000000e+00 0
##	CSI034	0	0	0	0	0	0.000000e+00 0
##	CSI045	0	0	0	0	0	0.000000e+00 0
##	CSI056	0	0	0	0	0	0.000000e+00 0
##	CSI066	0	0	0	0	0	0.000000e+00 0
##		0tu09123	0tu09124	0tu09125	0tu09126	0tu09127	0tu09128 0tu09129
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0
##	CSI023	0	0	0	0	0	0 0
##	CSI034	0	0	0	0	0	0 0
##	CSI045	0	0	0	0	0	0 0
##	CSI056	0	0	0	0	0	0 0
##	CSI066	0	0	0	0	0	0 0
##		0tu09130	0tu09131	0tu09132	0tu09133	0tu09134	0tu09135
##	CSI002	0	0	0	0	0	0 0.000000e+00
##	CSI013	0	0	0	0	0	0 0.000000e+00
##	CSI023	0	0	0	0	0	0 0.000000e+00
##	CSI034	0	0	0	0	0	0 0.000000e+00
##	CSI045	0	0	0	0	0	0 0.000000e+00
##	CSI056	0	0	0	0	0	0 0.000000e+00
##	CSI066	0	0	0	0	0	3.833694e-05
##		0tu09136	0tu09137	0tu09138	0tu09139	0tu09140	
##	CSI002	0.000000e+00	0	0.000000e+00	0.000000e+00	2.724387e-05	
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI023	0.000000e+00	0	0.000000e+00	2.041025e-05	0.000000e+00	
##	CSI034	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI056	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI066	0.000000e+00	0	1.916847e-05	0.000000e+00	0.000000e+00	
##		0tu09141	0tu09142	0tu09143	0tu09144	0tu09145	0tu09146

##	CSI002	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI013	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI023	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI034	0	1.894908e-05	0.000000e+00	0.000000e+00	0	0
##	CSI045	0	0.000000e+00	0.000000e+00	3.265093e-05	0	0
##	CSI056	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##	CSI066	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0
##		0tu09147	0tu09148	0tu09149	0tu09150	0tu09151	0tu09152
##	CSI002	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI013	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI023	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	0	0	0.000000e+00	0	0	1.894908e-05
##	CSI045	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI056	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI066	0	0	0.000000e+00	0	0	0.000000e+00
##		0tu09153	0tu09154	0tu09155	0tu09156	0tu09157	0tu09158
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu09160	0tu09161	0tu09162	0tu09163	0tu09164	0tu09165
##	CSI002	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	1.894908e-05	0	0.000000e+00	1.894908e-05	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##	CSI056	0.000000e+00	0	1.959286e-05	0.000000e+00	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0
##		0tu09166	0tu09167	0tu09168	0tu09169	0tu09170	0tu09171
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	4.082049e-05	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu09173	0tu09174	0tu09175	0tu09176	0tu09177	0tu09178
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu09180	0tu09181	0tu09182	0tu09183	0tu09184	0tu09185
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	3.195807e-05	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0.000000e+00	0	0

##	CSI066	0	0	0	0.000000e+00	0	0
##		0tu09186	0tu09187	0tu09188	0tu09189	0tu09190	0tu09191
##	CSI002	1.362194e-05	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu09193	0tu09194	0tu09195	0tu09196	0tu09197	0tu09198
##	CSI002	0	0	0.000000e+00	2.724387e-05	0	0.000000e+00
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	6.391614e-05
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI034	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI045	0	0	9.795279e-05	0.000000e+00	0	0.000000e+00
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0.000000e+00
##		0tu09199	0tu09200	0tu09201	0tu09202	0tu09203	0tu09204
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	3.918572e-05
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu09206	0tu09207	0tu09208	0tu09209	0tu09210	0tu09211
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI034	1.894908e-05	0	0	0	0.000000e+00	0
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI066	0.000000e+00	0	0	0	1.916847e-05	0
##		0tu09212	0tu09213	0tu09214	0tu09215	0tu09216	0tu09217
##	CSI002	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI013	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI023	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI045	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI056	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI066	0	0	0.000000e+00	0	0	0.000000e+00
##		0tu09218	0tu09219	0tu09220	0tu09221	0tu09222	0tu09223
##	CSI002	0	0	0	0	0	4.086581e-05
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu09224	0tu09225	0tu09226	0tu09227	0tu09228	0tu09229
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0

##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	1.959286e-05	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu09230	0tu09231	0tu09232	0tu09233	0tu09234	0tu09235
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	3.918572e-05	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu09237	0tu09238	0tu09239	0tu09240	0tu09241	0tu09242
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu09244	0tu09245	0tu09246	0tu09247	0tu09248	0tu09249
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	1.894908e-05	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu09251	0tu09252	0tu09253	0tu09254	0tu09255	0tu09256
##	CSI002	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI013	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI023	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	0	0	3.789817e-05	0	0	0.000000e+00
##	CSI045	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI056	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI066	0	0	0.000000e+00	0	0	0.000000e+00
##		0tu09257	0tu09258	0tu09259	0tu09260	0tu09261	0tu09262
##	CSI002	0	0	0	0	0	1.362194e-05
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	3.789817e-05
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu09264	0tu09265	0tu09266	0tu09267	0tu09268	0tu09269
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	3.195807e-05	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0.000000e+00	0	0
##		0tu09270	0tu09271	0tu09272	0tu09273	0tu09274	0tu09275
##	CSI002	1.362194e-05	0	0.000000e+00	0	0	0
##	CSI013	6.391614e-05	0	0.000000e+00	0	0	0



##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0
##		0tu09276	0tu09277	0tu09278	0tu09279	0tu09280	0tu09281 0tu09282
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu09283	0tu09284	0tu09285	0tu09286	0tu09287	0tu09288
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI013	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI023	0	0	0.000000e+00	0	2.041025e-05	0
##	CSI034	0	0	1.894908e-05	0	0.000000e+00	0
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0
##		0tu09289	0tu09290	0tu09291	0tu09292	0tu09293	0tu09294
##	CSI002	1.362194e-05	0	0	0	0	0.000000e+00
##	CSI013	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI034	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00
##		0tu09295	0tu09296	0tu09297	0tu09298	0tu09299	
##	CSI002	1.362194e-05	0	0.000000e+00	2.724387e-05	0.000000e+00	
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI034	1.894908e-05	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI056	0.000000e+00	0	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI066	0.000000e+00	0	1.916847e-05	0.000000e+00	1.916847e-05	
##		0tu09300	0tu09301	0tu09302	0tu09303	0tu09304	0tu09305 0tu09306
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	3.265093e-05	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu09307	0tu09308	0tu09309	0tu09310	0tu09311	0tu09312 0tu09313
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu09314	0tu09315	0tu09316	0tu09317	0tu09318	0tu09319 0tu09320

##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	1.894908e-05	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##	0tu09321	0tu09322	0tu09323	0tu09324	0tu09325	0tu09326	0tu09327	
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	1.916847e-05	0	0	0	0	0
##	0tu09328	0tu09329	0tu09330	0tu09331	0tu09332	0tu09333		
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI034	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI056	1.959286e-05	0	0	0.000000e+00	0	0	
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0	
##	0tu09334	0tu09335	0tu09336	0tu09337	0tu09338	0tu09339		
##	CSI002	0.000000e+00	1.362194e-05	0	0	0	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI034	1.894908e-05	0.000000e+00	0	0	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0	
##	0tu09340	0tu09341	0tu09342	0tu09343	0tu09344	0tu09345		
##	CSI002	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI013	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI023	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI034	0	3.789817e-05	0.000000e+00	0.000000e+00	0	0	
##	CSI045	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	CSI056	0	0.000000e+00	0.000000e+00	3.918572e-05	0	0	
##	CSI066	0	0.000000e+00	0.000000e+00	0.000000e+00	0	0	
##	0tu09346	0tu09347	0tu09348	0tu09349	0tu09350	0tu09351	0tu09352	
##	CSI002	0	0	0	2.724387e-05	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##	0tu09353	0tu09354	0tu09355	0tu09356	0tu09357	0tu09358		
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	1.959286e-05	

##	CSI066	0	0	1.916847e-05	0	1.916847e-05	0.000000e+00
##		0tu09359	0tu09360	0tu09361	0tu09362	0tu09363	
##	CSI002	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI013	0	9.587421e-05	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI023	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI034	0	0.000000e+00	0.000000e+00	0.000000e+00	1.894908e-05	
##	CSI045	0	0.000000e+00	6.530186e-05	0.000000e+00	0.000000e+00	
##	CSI056	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##	CSI066	0	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	
##		0tu09364	0tu09365	0tu09366	0tu09367	0tu09368	
##	CSI002	1.362194e-05	0	0.000000e+00	0	0.000000e+00	
##	CSI013	0.000000e+00	0	0.000000e+00	0	0.000000e+00	
##	CSI023	0.000000e+00	0	0.000000e+00	0	0.000000e+00	
##	CSI034	3.789817e-05	0	0.000000e+00	0	0.000000e+00	
##	CSI045	0.000000e+00	0	3.265093e-05	0	0.000000e+00	
##	CSI056	0.000000e+00	0	0.000000e+00	0	0.000000e+00	
##	CSI066	0.000000e+00	0	5.750542e-05	0	0.000000e+00	
##		0tu09369	0tu09370	0tu09371	0tu09372	0tu09373	0tu09374
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu09376	0tu09377	0tu09378	0tu09379	0tu09380	0tu09381
##	CSI002	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI013	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI034	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI045	0	3.265093e-05	0.000000e+00	0	0	0
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0
##		0tu09382	0tu09383	0tu09384	0tu09385	0tu09386	0tu09387
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu09389	0tu09390	0tu09391	0tu09392	0tu09393	0tu09394
##	CSI002	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI013	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI034	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI066	0	0	0	0.000000e+00	0.000000e+00	0
##		0tu09395	0tu09396	0tu09397	0tu09398	0tu09399	0tu09400
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	5.684725e-05

##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu09402	0tu09403	0tu09404	0tu09405	0tu09406	0tu09407	
##	CSI002	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI034	1.894908e-05	1.894908e-05	0	0.000000e+00	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0.000000e+00	0	0	
##	CSI066	0.000000e+00	0.000000e+00	0	1.916847e-05	0	0	
##		0tu09408	0tu09409	0tu09410	0tu09411	0tu09412	0tu09413	
##	CSI002	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI013	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI023	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI034	0	0.000000e+00	7.579634e-05	0	1.894908e-05	0	
##	CSI045	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##	CSI066	0	0.000000e+00	0.000000e+00	0	0.000000e+00	0	
##		0tu09414	0tu09415	0tu09416	0tu09417	0tu09418	0tu09419	0tu09420
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09421	0tu09422	0tu09423	0tu09424	0tu09425	0tu09426	
##	CSI002	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI013	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI023	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI034	0	0.000000e+00	0	0	0	1.894908e-05	
##	CSI045	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI056	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI066	0	0.000000e+00	0	0	0	0.000000e+00	
##		0tu09427	0tu09428	0tu09429	0tu09430	0tu09431	0tu09432	0tu09433
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu09434	0tu09435	0tu09436	0tu09437	0tu09438	0tu09439	0tu09440
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09441	0tu09442	0tu09443	0tu09444	0tu09445	0tu09446	0tu09447
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0

##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09448	0tu09449	0tu09450	0tu09451	0tu09452	0tu09453	0tu09454
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09455	0tu09456	0tu09457	0tu09458	0tu09459	0tu09460	0tu09461
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	1.916847e-05	0	0	0	0	0	0
##		0tu09462	0tu09463	0tu09464	0tu09465	0tu09466	0tu09467	
##	CSI002	2.724387e-05	0	0	0	0	0.000000e+00	
##	CSI013	3.195807e-05	0	0	0	0	3.195807e-05	
##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI034	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00	
##		0tu09468	0tu09469	0tu09470	0tu09471	0tu09472	0tu09473	
##	CSI002	0 0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI013	0 0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI023	0 0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI034	0 0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI045	0 0.000000e+00	0	0	0	0	3.265093e-05	
##	CSI056	0 0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI066	0 1.916847e-05	0	0	0	0	0.000000e+00	
##		0tu09474	0tu09475	0tu09476	0tu09477	0tu09478	0tu09479	0tu09480
##	CSI002	0	0 0.000000e+00	0	0	0	0	0
##	CSI013	0	0 0.000000e+00	0	0	0	0	0
##	CSI023	0	0 0.000000e+00	0	0	0	0	0
##	CSI034	0	0 3.789817e-05	0	0	0	0	0
##	CSI045	0	0 0.000000e+00	0	0	0	0	0
##	CSI056	0	0 0.000000e+00	0	0	0	0	0
##	CSI066	0	0 0.000000e+00	0	0	0	0	0
##		0tu09481	0tu09482	0tu09483	0tu09484	0tu09485	0tu09486	0tu09487
##	CSI002	0	0	0	0 2.724387e-05	0	0	0
##	CSI013	0	0	0	0 0.000000e+00	0	0	0
##	CSI023	0	0	0	0 0.000000e+00	0	0	0
##	CSI034	0	0	0	0 0.000000e+00	0	0	0
##	CSI045	0	0	0	0 0.000000e+00	0	0	0
##	CSI056	0	0	0	0 0.000000e+00	0	0	0
##	CSI066	0	0	0	0 0.000000e+00	0	0	0
##		0tu09488	0tu09489	0tu09490	0tu09491	0tu09492	0tu09493	0tu09494

##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09495	0tu09496	0tu09497	0tu09498	0tu09499	0tu09500	0tu09501
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09502	0tu09503	0tu09504	0tu09505	0tu09506	0tu09507	0tu09508
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09509	0tu09510	0tu09511	0tu09512	0tu09513	0tu09514	0tu09515
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09516	0tu09517	0tu09518	0tu09519	0tu09520	0tu09521	0tu09522
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	1.894908e-05
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu09523	0tu09524	0tu09525	0tu09526	0tu09527	0tu09528	0tu09529
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09530	0tu09531	0tu09532	0tu09533	0tu09534	0tu09535	0tu09536
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	5.877858e-05	0	0	0	0

##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu09537	0tu09538	0tu09539	0tu09540	0tu09541	0tu09542	0tu09543
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	5.684725e-05	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu09544	0tu09545	0tu09546	0tu09547	0tu09548	0tu09549	
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI034	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI056	1.959286e-05	0	0	0.000000e+00	0	0	
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0	
##		0tu09550	0tu09551	0tu09552	0tu09553	0tu09554	0tu09555	0tu09556
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09557	0tu09558	0tu09559	0tu09560	0tu09561	0tu09562	
##	CSI002	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0	0	0.000000e+00	6.391614e-05	
##	CSI023	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI066	0	0	0	0	0.000000e+00	0.000000e+00	
##		0tu09563	0tu09564	0tu09565	0tu09566	0tu09567	0tu09568	0tu09569
##	CSI002	0	0	0	2.724387e-05	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu09570	0tu09571	0tu09572	0tu09573	0tu09574	0tu09575	0tu09576
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09577	0tu09578	0tu09579	0tu09580	0tu09581	0tu09582	0tu09583
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0

##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09584	0tu09585	0tu09586	0tu09587	0tu09588	0tu09589	0tu09590
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	1.916847e-05	0	0	0	0	0	0
##		0tu09591	0tu09592	0tu09593	0tu09594	0tu09595	0tu09596	0tu09597
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	5.684725e-05	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu09598	0tu09599	0tu09600	0tu09601	0tu09602	0tu09603	0tu09604
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09605	0tu09606	0tu09607	0tu09608	0tu09609	0tu09610	0tu09611
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09612	0tu09613	0tu09614	0tu09615	0tu09616	0tu09617	0tu09618
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	9.587421e-05	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu09619	0tu09620	0tu09621	0tu09622	0tu09623	0tu09624	0tu09625
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09626	0tu09627	0tu09628	0tu09629	0tu09630	0tu09631	
##	CSI002	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI013	0	0	0.000000e+00	0	0	0.000000e+00	



##	CSI023	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI034	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI045	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI056	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI066	0	0	1.916847e-05	0	0	1.916847e-05	
##		0tu09632	0tu09633	0tu09634	0tu09635	0tu09636	0tu09637	0tu09638
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09639	0tu09640	0tu09641	0tu09642	0tu09643	0tu09644	
##	CSI002	0	0	0.000000e+00	0	1.362194e-05	0.000000e+00	
##	CSI013	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	2.041025e-05	
##	CSI034	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##		0tu09645	0tu09646	0tu09647	0tu09648	0tu09649	0tu09650	0tu09651
##	CSI002	0	0	0	1.362194e-05	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu09652	0tu09653	0tu09654	0tu09655	0tu09656	0tu09657	0tu09658
##	CSI002	0	0	0	0	0	2.724387e-05	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu09659	0tu09660	0tu09661	0tu09662	0tu09663	0tu09664	
##	CSI002	0.000000e+00	4.086581e-05	0	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI034	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI056	1.959286e-05	0.000000e+00	0	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##		0tu09665	0tu09666	0tu09667	0tu09668	0tu09669	0tu09670	
##	CSI002	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI034	1.894908e-05	0	5.684725e-05	0	0.000000e+00	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	
##		0tu09671	0tu09672	0tu09673	0tu09674	0tu09675	0tu09676	

##	CSI002	0	0	0 0.000000e+00	0	0
##	CSI013	0	0	0 3.195807e-05	0	0
##	CSI023	0	0	0 0.000000e+00	0	0
##	CSI034	0	0	0 0.000000e+00	0	0
##	CSI045	0	0	0 0.000000e+00	0	0
##	CSI056	0	0	0 0.000000e+00	0	0
##	CSI066	0	0	0 0.000000e+00	0	0
##		0tu09677	0tu09678	0tu09679	0tu09680	0tu09681 0tu09682
##	CSI002	0.000000e+00	0.000000e+00	0	0 0.000000e+00	0
##	CSI013	0.000000e+00	0.000000e+00	0	0 0.000000e+00	0
##	CSI023	0.000000e+00	0.000000e+00	0	0 0.000000e+00	0
##	CSI034	0.000000e+00	0.000000e+00	0	0 0.000000e+00	0
##	CSI045	0.000000e+00	0.000000e+00	0	0 9.795279e-05	0
##	CSI056	0.000000e+00	0.000000e+00	0	0 0.000000e+00	0
##	CSI066	0.000000e+00	0.000000e+00	0	0 0.000000e+00	0
##		0tu09683	0tu09684	0tu09685	0tu09686	0tu09687 0tu09688
##	CSI002	0	0 0.000000e+00	1.362194e-05	0	0
##	CSI013	0	0 0.000000e+00	0.000000e+00	0	0
##	CSI023	0	0 0.000000e+00	0.000000e+00	0	0
##	CSI034	0	0 0.000000e+00	0.000000e+00	0	0
##	CSI045	0	0 0.000000e+00	0.000000e+00	0	0
##	CSI056	0	0 1.959286e-05	0.000000e+00	0	0
##	CSI066	0	0 0.000000e+00	0.000000e+00	0	0
##		0tu09689	0tu09690	0tu09691	0tu09692	0tu09693 0tu09694 0tu09695
##	CSI002	0	0	0 0.000000e+00	0	0 0
##	CSI013	0	0	0 0.000000e+00	0	0 0
##	CSI023	0	0	0 0.000000e+00	0	0 0
##	CSI034	0	0	0 3.789817e-05	0	0 0
##	CSI045	0	0	0 0.000000e+00	0	0 0
##	CSI056	0	0	0 0.000000e+00	0	0 0
##	CSI066	0	0	0 0.000000e+00	0	0 0
##		0tu09696	0tu09697	0tu09698	0tu09699	0tu09700 0tu09701 0tu09702
##	CSI002	0	0	0	0	0 0
##	CSI013	0	0	0	0	0 0
##	CSI023	0	0	0	0	0 0
##	CSI034	0	0	0	0	0 0
##	CSI045	0	0	0	0	0 0
##	CSI056	0	0	0	0	0 0
##	CSI066	0	0	0	0	0 0
##		0tu09703	0tu09704	0tu09705	0tu09706	0tu09707 0tu09708
##	CSI002	2.724387e-05	0.000000e+00	0	0	0 0
##	CSI013	0.000000e+00	0.000000e+00	0	0	0 0
##	CSI023	0.000000e+00	0.000000e+00	0	0	0 0
##	CSI034	0.000000e+00	0.000000e+00	0	0	0 0
##	CSI045	0.000000e+00	0.000000e+00	0	0	0 0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0 0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0 0
##		0tu09709	0tu09710	0tu09711	0tu09712	0tu09713 0tu09714
##	CSI002	0.000000e+00	0	0	0	0 0
##	CSI013	0.000000e+00	0	0	0	0 0
##	CSI023	0.000000e+00	0	0	0	0 0
##	CSI034	3.789817e-05	0	0	0	0 0
##	CSI045	0.000000e+00	0	0	0	0 0
##	CSI056	0.000000e+00	0	0	0	0 0

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## CSI066 0.000000e+00      0      0      0      0      0
##      0tu09715 0tu09716 0tu09717 0tu09718 0tu09719 0tu09720 0tu09721
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 3.789817e-05      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu09722 0tu09723      0tu09724      0tu09725 0tu09726 0tu09727
## CSI002      0      0 0.000000e+00 0.000000e+00      0      0
## CSI013      0      0 0.000000e+00 0.000000e+00      0      0
## CSI023      0      0 0.000000e+00 0.000000e+00      0      0
## CSI034      0      0 1.894908e-05 0.000000e+00      0      0
## CSI045      0      0 0.000000e+00 0.000000e+00      0      0
## CSI056      0      0 0.000000e+00 0.000000e+00      0      0
## CSI066      0      0 0.000000e+00 0.000000e+00      0      0
##      0tu09728 0tu09729 0tu09730 0tu09731 0tu09732 0tu09733 0tu09734
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu09735      0tu09736 0tu09737 0tu09738 0tu09739 0tu09740
## CSI002 0.000000e+00 0.000000e+00      0      0      0      0
## CSI013 0.000000e+00 0.000000e+00      0      0      0      0
## CSI023 0.000000e+00 0.000000e+00      0      0      0      0
## CSI034 5.684725e-05 5.684725e-05      0      0      0      0
## CSI045 0.000000e+00 0.000000e+00      0      0      0      0
## CSI056 0.000000e+00 0.000000e+00      0      0      0      0
## CSI066 0.000000e+00 0.000000e+00      0      0      0      0
##      0tu09741 0tu09742 0tu09743 0tu09744 0tu09745 0tu09746 0tu09747
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu09748 0tu09749 0tu09750 0tu09751 0tu09752 0tu09753 0tu09754
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu09755 0tu09756 0tu09757      0tu09758 0tu09759 0tu09760 0tu09761
## CSI002      0      0      0 0.000000e+00      0      0      0
## CSI013      0      0      0 9.587421e-05      0      0      0
## CSI023      0      0      0 0.000000e+00      0      0      0
## CSI034      0      0      0 0.000000e+00      0      0      0

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##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu09762	0tu09763	0tu09764	0tu09765	0tu09766	0tu09767	0tu09768
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	1.894908e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu09769	0tu09770	0tu09771	0tu09772	0tu09773	0tu09774	
##	CSI002	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0	0	0.000000e+00	3.265093e-05	
##	CSI056	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI066	0	0	0	0	0.000000e+00	0.000000e+00	
##		0tu09775	0tu09776	0tu09777	0tu09778	0tu09779	0tu09780	0tu09781
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	3.195807e-05	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		0tu09782	0tu09783	0tu09784	0tu09785	0tu09786	0tu09787	0tu09788
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09789	0tu09790	0tu09791	0tu09792	0tu09793	0tu09794	0tu09795
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09796	0tu09797	0tu09798	0tu09799	0tu09800	0tu09801	0tu09802
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09803	0tu09804	0tu09805	0tu09806	0tu09807	0tu09808	0tu09809
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0

##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	3.789817e-05	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##	0tu09810	0tu09811	0tu09812	0tu09813	0tu09814	0tu09815	0tu09816	
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##	0tu09817	0tu09818	0tu09819	0tu09820	0tu09821	0tu09822	0tu09823	
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##	0tu09824	0tu09825	0tu09826	0tu09827	0tu09828	0tu09829	0tu09830	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	0tu09831	0tu09832	0tu09833	0tu09834	0tu09835	0tu09836	0tu09837	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	0tu09838	0tu09839	0tu09840	0tu09841	0tu09842	0tu09843	0tu09844	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	0tu09845	0tu09846	0tu09847	0tu09848	0tu09849	0tu09850	0tu09851	
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	3.265093e-05
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##	0tu09852	0tu09853	0tu09854	0tu09855	0tu09856	0tu09857	0tu09858	

##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu09859	0tu09860	0tu09861	0tu09862	0tu09863	0tu09864
##	CSI002	0	0	0	0	0	0 0.000000e+00
##	CSI013	0	0	0	0	0	0 0.000000e+00
##	CSI023	0	0	0	0	0	0 0.000000e+00
##	CSI034	0	0	0	0	0	0 0.000000e+00
##	CSI045	0	0	0	0	0	0 6.530186e-05
##	CSI056	0	0	0	0	0	0 0.000000e+00
##	CSI066	0	0	0	0	0	0 0.000000e+00
##		0tu09866	0tu09867	0tu09868	0tu09869	0tu09870	0tu09871
##	CSI002	0	0	0	0	0	0 1.362194e-05
##	CSI013	0	0	0	0	0	0 0.000000e+00
##	CSI023	0	0	0	0	0	0 0.000000e+00
##	CSI034	0	0	0	0	0	0 0.000000e+00
##	CSI045	0	0	0	0	0	0 0.000000e+00
##	CSI056	0	0	0	0	0	0 0.000000e+00
##	CSI066	0	0	0	0	0	0 0.000000e+00
##		0tu09873	0tu09874	0tu09875	0tu09876	0tu09877	0tu09878
##	CSI002	0	0	0	0	0	0 0.000000e+00
##	CSI013	0	0	0	0	0	0 0.000000e+00
##	CSI023	0	0	0	0	0	0 0.000000e+00
##	CSI034	0	0	0	0	0	0 5.684725e-05
##	CSI045	0	0	0	0	0	0 0.000000e+00
##	CSI056	0	0	0	0	0	0 0.000000e+00
##	CSI066	0	0	0	0	0	0 0.000000e+00
##		0tu09880	0tu09881	0tu09882	0tu09883	0tu09884	0tu09885
##	CSI002	0 0.000000e+00		0	0	0	0
##	CSI013	0 0.000000e+00		0	0	0	0
##	CSI023	0 0.000000e+00		0	0	0	0
##	CSI034	0 0.000000e+00		0	0	0	0
##	CSI045	0 6.530186e-05		0	0	0	0
##	CSI056	0 0.000000e+00		0	0	0	0
##	CSI066	0 0.000000e+00		0	0	0	0
##		0tu09887	0tu09888	0tu09889	0tu09890	0tu09891	0tu09892
##	CSI002	0	0 2.724387e-05		0	0	0
##	CSI013	0	0 0.000000e+00		0	0	0
##	CSI023	0	0 0.000000e+00		0	0	0
##	CSI034	0	0 0.000000e+00		0	0	0
##	CSI045	0	0 0.000000e+00		0	0	0
##	CSI056	0	0 0.000000e+00		0	0	0
##	CSI066	0	0 0.000000e+00		0	0	0
##		0tu09894	0tu09895	0tu09896	0tu09897	0tu09898	0tu09899
##	CSI002	0	0	0	0 0.000000e+00		0
##	CSI013	0	0	0	0 0.000000e+00		0
##	CSI023	0	0	0	0 0.000000e+00		0
##	CSI034	0	0	0	0 0.000000e+00		0
##	CSI045	0	0	0	0 0.000000e+00		0
##	CSI056	0	0	0	0 1.959286e-05		0

## CSI066	0	0	0	0 0.000000e+00	0	0
##	0tu09901	0tu09902	0tu09903	0tu09904	0tu09905	0tu09906
## CSI002	0	0	0 0.000000e+00	0.000000e+00	0	
## CSI013	0	0	0 0.000000e+00	0.000000e+00	0	
## CSI023	0	0	0 0.000000e+00	0.000000e+00	0	
## CSI034	0	0	0 0.000000e+00	0.000000e+00	0	
## CSI045	0	0	0 0.000000e+00	0.000000e+00	0	
## CSI056	0	0	0 0.000000e+00	0.000000e+00	0	
## CSI066	0	0	0 0.000000e+00	1.916847e-05	0	
##	0tu09907	0tu09908	0tu09909	0tu09910	0tu09911	0tu09912
## CSI002	0	0 0.000000e+00	0	1.362194e-05	0	
## CSI013	0	0 0.000000e+00	0	3.195807e-05	0	
## CSI023	0	0 0.000000e+00	0	0.000000e+00	0	
## CSI034	0	0 0.000000e+00	0	0.000000e+00	0	
## CSI045	0	0 0.000000e+00	0	0.000000e+00	0	
## CSI056	0	0 0.000000e+00	0	0.000000e+00	0	
## CSI066	0	0 0.000000e+00	0	0.000000e+00	0	
##	0tu09913	0tu09914	0tu09915	0tu09916	0tu09917	0tu09918
## CSI002	0	0	0 1.362194e-05	0.000000e+00	0.000000e+00	
## CSI013	0	0	0 0.000000e+00	0.000000e+00	0.000000e+00	
## CSI023	0	0	0 0.000000e+00	2.041025e-05	0.000000e+00	
## CSI034	0	0	0 0.000000e+00	0.000000e+00	0.000000e+00	
## CSI045	0	0	0 0.000000e+00	0.000000e+00	0.000000e+00	
## CSI056	0	0	0 0.000000e+00	0.000000e+00	0.000000e+00	
## CSI066	0	0	0 0.000000e+00	0.000000e+00	0.000000e+00	
##	0tu09919	0tu09920	0tu09921	0tu09922	0tu09923	0tu09924
## CSI002	0.000000e+00	0	1.362194e-05	0 0.000000e+00	0	
## CSI013	0.000000e+00	0	0.000000e+00	0 0.000000e+00	0	
## CSI023	0.000000e+00	0	0.000000e+00	0 0.000000e+00	0	
## CSI034	0.000000e+00	0	0.000000e+00	0 0.000000e+00	0	
## CSI045	0.000000e+00	0	0.000000e+00	0 0.000000e+00	0	
## CSI056	0.000000e+00	0	0.000000e+00	0 0.000000e+00	0	
## CSI066	0.000000e+00	0	0.000000e+00	0 0.000000e+00	0	
##	0tu09925	0tu09926	0tu09927	0tu09928	0tu09929	0tu09930
## CSI002	0	0 0.000000e+00	0	0	1.362194e-05	
## CSI013	0	0 0.000000e+00	0	0	0.000000e+00	
## CSI023	0	0 0.000000e+00	0	0	0.000000e+00	
## CSI034	0	0 1.894908e-05	0	0	0.000000e+00	
## CSI045	0	0 0.000000e+00	0	0	0.000000e+00	
## CSI056	0	0 0.000000e+00	0	0	0.000000e+00	
## CSI066	0	0 0.000000e+00	0	0	0.000000e+00	
##	0tu09931	0tu09932	0tu09933	0tu09934	0tu09935	0tu09936
## CSI002	0	0	0 0.000000e+00	0	0	0
## CSI013	0	0	0 3.195807e-05	0	0	0
## CSI023	0	0	0 0.000000e+00	0	0	0
## CSI034	0	0	0 1.894908e-05	0	0	0
## CSI045	0	0	0 0.000000e+00	0	0	0
## CSI056	0	0	0 0.000000e+00	0	0	0
## CSI066	0	0	0 0.000000e+00	0	0	0
##	0tu09938	0tu09939	0tu09940	0tu09941	0tu09942	0tu09943
## CSI002	0 4.086581e-05	0	0	0	0	0
## CSI013	0 0.000000e+00	0	0	0	0	0
## CSI023	0 0.000000e+00	0	0	0	0	0
## CSI034	0 0.000000e+00	0	0	0	0	0

##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu09945	0tu09946	0tu09947	0tu09948	0tu09949	0tu09950	0tu09951
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu09952	0tu09953	0tu09954	0tu09955	0tu09956	0tu09957	
##	CSI002	0	0.000000e+00	0	1.362194e-05	0	0	
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI034	0	1.894908e-05	0	0.000000e+00	0	0	
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI066	0	0.000000e+00	0	0.000000e+00	0	0	
##		0tu09958	0tu09959	0tu09960	0tu09961	0tu09962	0tu09963	0tu09964
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09965	0tu09966	0tu09967	0tu09968	0tu09969	0tu09970	0tu09971
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09972	0tu09973	0tu09974	0tu09975	0tu09976	0tu09977	0tu09978
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu09979	0tu09980	0tu09981	0tu09982	0tu09983	0tu09984	0tu09985
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	5.684725e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu09986	0tu09987	0tu09988	0tu09989	0tu09990	0tu09991	
##	CSI002	0	0	0	0.0000000000	0	0.000000e+00	
##	CSI013	0	0	0	0.0000000000	0	0.000000e+00	



##	CSI023	0	0	0	0.0000000000	0	0.000000e+00
##	CSI034	0	0	0	0.0000000000	0	3.789817e-05
##	CSI045	0	0	0	0.0000000000	0	0.000000e+00
##	CSI056	0	0	0	0.0000000000	0	0.000000e+00
##	CSI066	0	0	0	0.0000000000	0	0.000000e+00
##		Otu09992	Otu09993	Otu09994	Otu09995	Otu09996	Otu09997 Otu09998
##	CSI002	0	0	0	0	0.000000e+00	0 0
##	CSI013	0	0	0	0	0.000000e+00	0 0
##	CSI023	0	0	0	0	0.000000e+00	0 0
##	CSI034	0	0	0	0	0.000000e+00	0 0
##	CSI045	0	0	0	0	0.000000e+00	0 0
##	CSI056	0	0	0	0	0.000000e+00	0 0
##	CSI066	0	0	0	0	3.833694e-05	0 0
##		Otu09999	Otu10000	Otu10001	Otu10002	Otu10003	Otu10004 Otu10005
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0
##	CSI023	0	0	0	0	0	0 0
##	CSI034	0	0	0	0	0	0 0
##	CSI045	0	0	0	0	0	0 0
##	CSI056	0	0	0	0	0	0 0
##	CSI066	0	0	0	0	0	0 0
##		Otu10006	Otu10007	Otu10008	Otu10009	Otu10010	Otu10011
##	CSI002	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI013	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI023	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	0	3.789817e-05	0	0	0.000000e+00	0
##	CSI045	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI056	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI066	0	0.000000e+00	0	0	0.000000e+00	0
##		Otu10012	Otu10013	Otu10014	Otu10015	Otu10016	Otu10017 Otu10018
##	CSI002	0	0	0	1.362194e-05	0	0 0
##	CSI013	0	0	0	0.000000e+00	0	0 0
##	CSI023	0	0	0	0.000000e+00	0	0 0
##	CSI034	0	0	0	0.000000e+00	0	0 0
##	CSI045	0	0	0	0.000000e+00	0	0 0
##	CSI056	0	0	0	3.918572e-05	0	0 0
##	CSI066	0	0	0	0.000000e+00	0	0 0
##		Otu10019	Otu10020	Otu10021	Otu10022	Otu10023	Otu10024 Otu10025
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0
##	CSI023	0	0	0	0	0	0 0
##	CSI034	0	0	0	0	0	0 0
##	CSI045	0	0	0	0	0	0 0
##	CSI056	0	0	0	0	0	0 0
##	CSI066	0	0	0	0	0	0 0
##		Otu10026	Otu10027	Otu10028	Otu10029	Otu10030	Otu10031 Otu10032
##	CSI002	0	0	0.000000e+00	0	0	0 0
##	CSI013	0	0	0.000000e+00	0	0	0 0
##	CSI023	0	0	0.000000e+00	0	0	0 0
##	CSI034	0	0	0.000000e+00	0	0	0 0
##	CSI045	0	0	0.000000e+00	0	0	0 0
##	CSI056	0	0	0.000000e+00	0	0	0 0
##	CSI066	0	0	0.000000e+00	0	0	0 0
##		Otu10033	Otu10034	Otu10035	Otu10036	Otu10037	Otu10038 Otu10039

##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10040	Otu10041	Otu10042	Otu10043	Otu10044	Otu10045	Otu10046
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	5.684725e-05	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		Otu10047	Otu10048	Otu10049	Otu10050	Otu10051	Otu10052	Otu10053
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10054	Otu10055	Otu10056	Otu10057	Otu10058	Otu10059	Otu10060
##	CSI002	0	0	2.724387e-05	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		Otu10061	Otu10062	Otu10063	Otu10064	Otu10065	Otu10066	Otu10067
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	2.041025e-05	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		Otu10068	Otu10069	Otu10070	Otu10071	Otu10072	Otu10073	Otu10074
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10075	Otu10076	Otu10077	Otu10078	Otu10079	Otu10080	Otu10081
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	3.195807e-05	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	1.894908e-05	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0

##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu10082	Otu10083	Otu10084	Otu10085	Otu10086	Otu10087	
##	CSI002	0.000000e+00	0	0	0	0	0	
##	CSI013	0.000000e+00	0	0	0	0	0	
##	CSI023	0.000000e+00	0	0	0	0	0	
##	CSI034	0.000000e+00	0	0	0	0	0	
##	CSI045	0.000000e+00	0	0	0	0	0	
##	CSI056	0.000000e+00	0	0	0	0	0	
##	CSI066	0.000000e+00	0	0	0	0	0	
##		Otu10088	Otu10089	Otu10090	Otu10091	Otu10092	Otu10093	
##	CSI002	0.000000e+00	0	0	0	0	0	
##	CSI013	0.000000e+00	0	0	0	0	0	
##	CSI023	0.000000e+00	0	0	0	0	0	
##	CSI034	0.000000e+00	0	0	0	0	0	
##	CSI045	0.000000e+00	0	0	0	0	0	
##	CSI056	0.000000e+00	0	0	0	0	0	
##	CSI066	1.916847e-05	0	0	0	0	0	
##		Otu10094	Otu10095	Otu10096	Otu10097	Otu10098	Otu10099	
##	CSI002	0.000000e+00	1.362194e-05	0	0	0	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI034	1.894908e-05	3.789817e-05	0	0	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0	
##		Otu10100	Otu10101	Otu10102	Otu10103	Otu10104	Otu10105	Otu10106
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	3.195807e-05	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu10107	Otu10108	Otu10109	Otu10110	Otu10111	Otu10112	Otu10113
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	3.789817e-05	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu10114	Otu10115	Otu10116	Otu10117	Otu10118	Otu10119	Otu10120
##	CSI002	0	0	0	1.362194e-05	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu10121	Otu10122	Otu10123	Otu10124	Otu10125	Otu10126	Otu10127
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0

##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		Otu10128	Otu10129	Otu10130	Otu10131	Otu10132	Otu10133	
##	CSI002	0	0	0	0	0.000000e+00	0	
##	CSI013	0	0	0	0	3.195807e-05	0	
##	CSI023	0	0	0	0	0.000000e+00	0	
##	CSI034	0	0	0	0	0.000000e+00	0	
##	CSI045	0	0	0	0	0.000000e+00	0	
##	CSI056	0	0	0	0	0.000000e+00	0	
##	CSI066	0	0	0	0	0.000000e+00	0	
##		Otu10134	Otu10135	Otu10136	Otu10137	Otu10138	Otu10139	
##	CSI002	0.000000e+00	0	0	0	0	0	
##	CSI013	3.195807e-05	0	0	0	0	0	
##	CSI023	0.000000e+00	0	0	0	0	0	
##	CSI034	0.000000e+00	0	0	0	0	0	
##	CSI045	0.000000e+00	0	0	0	0	0	
##	CSI056	0.000000e+00	0	0	0	0	0	
##	CSI066	0.000000e+00	0	0	0	0	0	
##		Otu10140	Otu10141	Otu10142	Otu10143	Otu10144	Otu10145	Otu10146
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	1.894908e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu10147	Otu10148	Otu10149	Otu10150	Otu10151	Otu10152	Otu10153
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	3.195807e-05
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		Otu10154	Otu10155	Otu10156	Otu10157	Otu10158	Otu10159	Otu10160
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	1.894908e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu10161	Otu10162	Otu10163	Otu10164	Otu10165	Otu10166	Otu10167
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	2.041025e-05	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu10168	Otu10169	Otu10170	Otu10171	Otu10172	Otu10173	
##	CSI002	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI013	0	0	0	0.000000e+00	0	0.000000e+00	

##	CSI023	0	0	0 0.000000e+00	0 0.000000e+00		
##	CSI034	0	0	0 3.789817e-05	0 0.000000e+00		
##	CSI045	0	0	0 0.000000e+00	0 0.000000e+00		
##	CSI056	0	0	0 0.000000e+00	0 1.959286e-05		
##	CSI066	0	0	0 0.000000e+00	0 0.000000e+00		
##		Otu10174	Otu10175	Otu10176	Otu10177	Otu10178	Otu10179
##	CSI002	0	0 0.000000e+00	0	0	0	0
##	CSI013	0	0 0.000000e+00	0	0	0	0
##	CSI023	0	0 0.000000e+00	0	0	0	0
##	CSI034	0	0 0.000000e+00	0	0	0	0
##	CSI045	0	0 0.000000e+00	0	0	0	0
##	CSI056	0	0 0.000000e+00	0	0	0	0
##	CSI066	0	0 0.000000e+00	0	0	0	0
##		Otu10180	Otu10181	Otu10182	Otu10183	Otu10184	Otu10185
##	CSI002	1.362194e-05	0 0.000000e+00	0.000000e+00	0	0	0
##	CSI013	0.000000e+00	0 0.000000e+00	0.000000e+00	0	0	0
##	CSI023	0.000000e+00	0 0.000000e+00	0.000000e+00	0	0	0
##	CSI034	1.894908e-05	0 0.000000e+00	0.000000e+00	0	0	0
##	CSI045	0.000000e+00	0 6.530186e-05	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0 0.000000e+00	0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0 0.000000e+00	0.000000e+00	0	0	0
##		Otu10186	Otu10187	Otu10188	Otu10189	Otu10190	Otu10191
##	CSI002	0 0.000000e+00	0	0	0	0	0
##	CSI013	0 0.000000e+00	0	0	0	0	0
##	CSI023	0 0.000000e+00	0	0	0	0	0
##	CSI034	0 1.894908e-05	0	0	0	0	0
##	CSI045	0 0.000000e+00	0	0	0	0	0
##	CSI056	0 0.000000e+00	0	0	0	0	0
##	CSI066	0 0.000000e+00	0	0	0	0	0
##		Otu10193	Otu10194	Otu10195	Otu10196	Otu10197	Otu10198
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		Otu10200	Otu10201	Otu10202	Otu10203	Otu10204	Otu10205
##	CSI002	0	0 1.362194e-05	0.000000e+00	0	0	0
##	CSI013	0	0 3.195807e-05	0.000000e+00	0	0	0
##	CSI023	0	0 0.000000e+00	0.000000e+00	0	0	0
##	CSI034	0	0 0.000000e+00	0.000000e+00	0	0	0
##	CSI045	0	0 0.000000e+00	0.000000e+00	0	0	0
##	CSI056	0	0 0.000000e+00	0.000000e+00	0	0	0
##	CSI066	0	0 0.000000e+00	0.000000e+00	0	0	0
##		Otu10206	Otu10207	Otu10208	Otu10209	Otu10210	Otu10211
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		Otu10213	Otu10214	Otu10215	Otu10216	Otu10217	Otu10218
##		Otu10219					

##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu10220	0tu10221	0tu10222	0tu10223	0tu10224	0tu10225	0tu10226
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu10227	0tu10228	0tu10229	0tu10230	0tu10231	0tu10232	0tu10233
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu10234	0tu10235	0tu10236	0tu10237	0tu10238	0tu10239	0tu10240
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu10241	0tu10242	0tu10243	0tu10244	0tu10245	0tu10246	0tu10247
##	CSI002	0	0	1.362194e-05	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu10248	0tu10249	0tu10250	0tu10251	0tu10252	0tu10253	0tu10254
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	1.959286e-05
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu10255	0tu10256	0tu10257	0tu10258	0tu10259	0tu10260	0tu10261
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	1.894908e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0

##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu10262	0tu10263	0tu10264	0tu10265	0tu10266	0tu10267	0tu10268
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	5.684725e-05	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu10269	0tu10270	0tu10271	0tu10272	0tu10273	0tu10274	
##	CSI002	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI013	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI034	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI056	0	0	0	0.000000e+00	3.918572e-05	0	
##	CSI066	0	0	0	0.000000e+00	0.000000e+00	0	
##		0tu10275	0tu10276	0tu10277	0tu10278	0tu10279	0tu10280	0tu10281
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	1.894908e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu10282	0tu10283	0tu10284	0tu10285	0tu10286	0tu10287	0tu10288
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu10289	0tu10290	0tu10291	0tu10292	0tu10293	0tu10294	0tu10295
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	5.684725e-05	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu10296	0tu10297	0tu10298	0tu10299	0tu10300	0tu10301	0tu10302
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	3.789817e-05	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu10303	0tu10304	0tu10305	0tu10306	0tu10307	0tu10308	0tu10309
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0

##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu10310	Otu10311	Otu10312	Otu10313	Otu10314	Otu10315		
##	CSI002	0 0.000000e+00	0	0 0.000000e+00	0			
##	CSI013	0 0.000000e+00	0	0 0.000000e+00	0			
##	CSI023	0 2.041025e-05	0	0 0.000000e+00	0			
##	CSI034	0 0.000000e+00	0	0 3.789817e-05	0			
##	CSI045	0 0.000000e+00	0	0 0.000000e+00	0			
##	CSI056	0 0.000000e+00	0	0 0.000000e+00	0			
##	CSI066	0 0.000000e+00	0	0 0.000000e+00	0			
##	Otu10316	Otu10317	Otu10318	Otu10319	Otu10320	Otu10321	Otu10322	
##	CSI002	0 0.000000e+00	0	0	0	0	0	
##	CSI013	0 0.000000e+00	0	0	0	0	0	
##	CSI023	0 0.000000e+00	0	0	0	0	0	
##	CSI034	0 0.000000e+00	0	0	0	0	0	
##	CSI045	0 0.000000e+00	0	0	0	0	0	
##	CSI056	0 3.918572e-05	0	0	0	0	0	
##	CSI066	0 0.000000e+00	0	0	0	0	0	
##	Otu10323	Otu10324	Otu10325	Otu10326	Otu10327	Otu10328	Otu10329	
##	CSI002	0	0	0	0	0	0 0.0000000000	
##	CSI013	0	0	0	0	0	0 0.0000000000	
##	CSI023	0	0	0	0	0	0 0.0000000000	
##	CSI034	0	0	0	0	0	0 0.0000000000	
##	CSI045	0	0	0	0	0	0 0.0000000000	
##	CSI056	0	0	0	0	0	0 0.0000000000	
##	CSI066	0	0	0	0	0	0 0.0000000000	
##	Otu10330	Otu10331	Otu10332	Otu10333	Otu10334	Otu10335	Otu10336	
##	CSI002	0	0	0 0.000000e+00	0	0	0	
##	CSI013	0	0	0 0.000000e+00	0	0	0	
##	CSI023	0	0	0 0.000000e+00	0	0	0	
##	CSI034	0	0	0 0.000000e+00	0	0	0	
##	CSI045	0	0	0 0.000000e+00	0	0	0	
##	CSI056	0	0	0 0.000000e+00	0	0	0	
##	CSI066	0	0	0 0.000000e+00	0	0	0	
##	Otu10337	Otu10338	Otu10339	Otu10340	Otu10341	Otu10342	Otu10343	
##	CSI002	0	0	0 0.000000e+00	0	0	0	
##	CSI013	0	0	0 0.000000e+00	0	0	0	
##	CSI023	0	0	0 0.000000e+00	0	0	0	
##	CSI034	0	0	0 0.000000e+00	0	0	0	
##	CSI045	0	0	0 0.000000e+00	0	0	0	
##	CSI056	0	0	0 0.000000e+00	0	0	0	
##	CSI066	0	0	0 0.000000e+00	0	0	0	
##	Otu10344	Otu10345	Otu10346	Otu10347	Otu10348	Otu10349		
##	CSI002	2.724387e-05	0 0.000000e+00	0	0	0		
##	CSI013	0.000000e+00	0 0.000000e+00	0	0	0		
##	CSI023	0.000000e+00	0 0.000000e+00	0	0	0		
##	CSI034	0.000000e+00	0 0.000000e+00	0	0	0		
##	CSI045	0.000000e+00	0 0.000000e+00	0	0	0		
##	CSI056	0.000000e+00	0 0.000000e+00	0	0	0		
##	CSI066	0.000000e+00	0 0.000000e+00	0	0	0		
##	Otu10350	Otu10351	Otu10352	Otu10353	Otu10354	Otu10355	Otu10356	
##	CSI002	0	0	0	0	0	0 0.000000e+00	
##	CSI013	0	0	0	0	0	0 0.000000e+00	



##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	5.684725e-05
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		Otu10357	Otu10358	Otu10359	Otu10360	Otu10361	Otu10362	Otu10363
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10364	Otu10365	Otu10366	Otu10367	Otu10368	Otu10369	Otu10370
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10371	Otu10372	Otu10373	Otu10374	Otu10375	Otu10376	Otu10377
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		Otu10378	Otu10379	Otu10380	Otu10381	Otu10382	Otu10383	Otu10384
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10385	Otu10386	Otu10387	Otu10388	Otu10389	Otu10390	Otu10391
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10392	Otu10393	Otu10394	Otu10395	Otu10396	Otu10397	Otu10398
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		Otu10399	Otu10400	Otu10401	Otu10402	Otu10403	Otu10404	Otu10405

##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu10406	Otu10407	Otu10408	Otu10409	Otu10410	Otu10411	Otu10412
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu10413	Otu10414	Otu10415	Otu10416	Otu10417	Otu10418	Otu10419
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10420	Otu10421	Otu10422	Otu10423	Otu10424	Otu10425	
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI034	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI066	0.000000e+00	0	0	1.916847e-05	0	0	
##		Otu10426	Otu10427	Otu10428	Otu10429	Otu10430	Otu10431	
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI034	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI045	0.000000e+00	0	0	3.265093e-05	0	0	
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0	
##		Otu10432	Otu10433	Otu10434	Otu10435	Otu10436	Otu10437	
##	CSI002	1.362194e-05	0.000000e+00	0	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0	3.195807e-05	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI034	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0.000000e+00	0	
##		Otu10438	Otu10439	Otu10440	Otu10441	Otu10442	Otu10443	
##	CSI002	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI034	0.000000e+00	0	0.000000e+00	1.894908e-05	0	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI056	1.959286e-05	0	1.959286e-05	0.000000e+00	0	0	

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## CSI066 0.000000e+00      0 0.000000e+00 0.000000e+00      0      0
##      0tu10444 0tu10445 0tu10446 0tu10447 0tu10448      0tu10449
## CSI002 0.000000e+00      0      0      0      0 0.000000e+00
## CSI013 0.000000e+00      0      0      0      0 0.000000e+00
## CSI023 0.000000e+00      0      0      0      0 0.000000e+00
## CSI034 5.684725e-05      0      0      0      0 5.684725e-05
## CSI045 0.000000e+00      0      0      0      0 0.000000e+00
## CSI056 0.000000e+00      0      0      0      0 0.000000e+00
## CSI066 0.000000e+00      0      0      0      0 0.000000e+00
##      0tu10450 0tu10451 0tu10452 0tu10453      0tu10454 0tu10455 0tu10456
## CSI002      0      0      0      0 0.000000e+00      0      0
## CSI013      0      0      0      0 0.000000e+00      0      0
## CSI023      0      0      0      0 0.000000e+00      0      0
## CSI034      0      0      0      0 0.000000e+00      0      0
## CSI045      0      0      0      0 3.265093e-05      0      0
## CSI056      0      0      0      0 0.000000e+00      0      0
## CSI066      0      0      0      0 0.000000e+00      0      0
##      0tu10457 0tu10458 0tu10459 0tu10460 0tu10461 0tu10462      0tu10463
## CSI002      0      0      0      0      0      0 2.724387e-05
## CSI013      0      0      0      0      0      0 0.000000e+00
## CSI023      0      0      0      0      0      0 0.000000e+00
## CSI034      0      0      0      0      0      0 0.000000e+00
## CSI045      0      0      0      0      0      0 0.000000e+00
## CSI056      0      0      0      0      0      0 0.000000e+00
## CSI066      0      0      0      0      0      0 0.000000e+00
##      0tu10464 0tu10465 0tu10466      0tu10467 0tu10468 0tu10469
## CSI002 0.000000e+00      0      0 0.000000e+00      0      0
## CSI013 0.000000e+00      0      0 0.000000e+00      0      0
## CSI023 0.000000e+00      0      0 0.000000e+00      0      0
## CSI034 0.000000e+00      0      0 1.894908e-05      0      0
## CSI045 0.000000e+00      0      0 0.000000e+00      0      0
## CSI056 1.959286e-05      0      0 0.000000e+00      0      0
## CSI066 0.000000e+00      0      0 0.000000e+00      0      0
##      0tu10470 0tu10471 0tu10472 0tu10473      0tu10474 0tu10475 0tu10476
## CSI002      0      0      0      0 0.000000e+00      0      0
## CSI013      0      0      0      0 0.000000e+00      0      0
## CSI023      0      0      0      0 0.000000e+00      0      0
## CSI034      0      0      0      0 0.000000e+00      0      0
## CSI045      0      0      0      0 0.000000e+00      0      0
## CSI056      0      0      0      0 0.000000e+00      0      0
## CSI066      0      0      0      0 0.000000e+00      0      0
##      0tu10477 0tu10478 0tu10479 0tu10480 0tu10481 0tu10482 0tu10483
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 1.959286e-05      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu10484 0tu10485 0tu10486 0tu10487 0tu10488      0tu10489 0tu10490
## CSI002      0      0      0      0      0 0.000000e+00      0
## CSI013      0      0      0      0      0 0.000000e+00      0
## CSI023      0      0      0      0      0 0.000000e+00      0
## CSI034      0      0      0      0      0 0.000000e+00      0

```

##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	1.916847e-05	0
##		Otu10491	Otu10492	Otu10493	Otu10494	Otu10495	Otu10496	Otu10497
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10498	Otu10499	Otu10500	Otu10501	Otu10502	Otu10503	Otu10504
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	6.530186e-05
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		Otu10505	Otu10506	Otu10507	Otu10508	Otu10509	Otu10510	Otu10511
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10512	Otu10513	Otu10514	Otu10515	Otu10516	Otu10517	
##	CSI002	0	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI034	0	0.000000e+00	0	3.789817e-05	0	0	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI066	0	0.000000e+00	0	0.000000e+00	0	0	0
##		Otu10518	Otu10519	Otu10520	Otu10521	Otu10522	Otu10523	Otu10524
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu10525	Otu10526	Otu10527	Otu10528	Otu10529	Otu10530	Otu10531
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10532	Otu10533	Otu10534	Otu10535	Otu10536	Otu10537	
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0

```

## CSI023 0.000000e+00      0      0      0      0      0
## CSI034 1.894908e-05      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0
##      0tu10538 0tu10539 0tu10540 0tu10541 0tu10542 0tu10543
## CSI002 0.000000e+00      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0
## CSI034 1.894908e-05      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0
##      0tu10544 0tu10545 0tu10546 0tu10547 0tu10548 0tu10549 0tu10550
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 2.041025e-05      0      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu10551      0tu10552 0tu10553 0tu10554 0tu10555      0tu10556
## CSI002      0 0.000000e+00      0      0      0 4.086581e-05
## CSI013      0 0.000000e+00      0      0      0 0.000000e+00
## CSI023      0 0.000000e+00      0      0      0 0.000000e+00
## CSI034      0 5.684725e-05      0      0      0 0.000000e+00
## CSI045      0 0.000000e+00      0      0      0 0.000000e+00
## CSI056      0 0.000000e+00      0      0      0 0.000000e+00
## CSI066      0 0.000000e+00      0      0      0 0.000000e+00
##      0tu10557 0tu10558 0tu10559 0tu10560 0tu10561      0tu10562
## CSI002 0.000000e+00      0      0      0      0 0.000000e+00
## CSI013 0.000000e+00      0      0      0      0 3.195807e-05
## CSI023 0.000000e+00      0      0      0      0 0.000000e+00
## CSI034 3.789817e-05      0      0      0      0 0.000000e+00
## CSI045 0.000000e+00      0      0      0      0 0.000000e+00
## CSI056 0.000000e+00      0      0      0      0 0.000000e+00
## CSI066 0.000000e+00      0      0      0      0 0.000000e+00
##      0tu10563 0tu10564 0tu10565 0tu10566 0tu10567 0tu10568 0tu10569
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu10570 0tu10571 0tu10572 0tu10573 0tu10574 0tu10575
## CSI002 0.000000e+00      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0
##      0tu10576      0tu10577 0tu10578 0tu10579 0tu10580 0tu10581

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##	CSI002	1.362194e-05	0.000000e+00	0	0	0	0	
##	CSI013	0.000000e+00	3.195807e-05	0	0	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI034	1.894908e-05	0.000000e+00	0	0	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0	
##		Otu10582	Otu10583	Otu10584	Otu10585	Otu10586	Otu10587	Otu10588
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10589	Otu10590	Otu10591	Otu10592	Otu10593	Otu10594	
##	CSI002	0	1.362194e-05	0	0	0	0.000000e+00	
##	CSI013	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI023	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI034	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI045	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI056	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI066	0	0.000000e+00	0	0	0	0.000000e+00	
##		Otu10595	Otu10596	Otu10597	Otu10598	Otu10599	Otu10600	Otu10601
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10602	Otu10603	Otu10604	Otu10605	Otu10606	Otu10607	Otu10608
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		Otu10609	Otu10610	Otu10611	Otu10612	Otu10613	Otu10614	Otu10615
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10616	Otu10617	Otu10618	Otu10619	Otu10620	Otu10621	Otu10622
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	1.959286e-05	0	0	0

##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu10623	Otu10624	Otu10625	Otu10626	Otu10627	Otu10628	
##	CSI002	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI013	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI023	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI034	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI045	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI056	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI066	0	0.000000e+00	0	0	0.000000e+00	0	
##		Otu10629	Otu10630	Otu10631	Otu10632	Otu10633	Otu10634	Otu10635
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		Otu10636	Otu10637	Otu10638	Otu10639	Otu10640	Otu10641	Otu10642
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10643	Otu10644	Otu10645	Otu10646	Otu10647	Otu10648	Otu10649
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10650	Otu10651	Otu10652	Otu10653	Otu10654	Otu10655	Otu10656
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10657	Otu10658	Otu10659	Otu10660	Otu10661	Otu10662	Otu10663
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10664	Otu10665	Otu10666	Otu10667	Otu10668	Otu10669	
##	CSI002	0	0	0	0	0	0.000000e+00	
##	CSI013	0	0	0	0	0	0.000000e+00	
##	CSI023	0	0	0	0	0	0.000000e+00	
##	CSI034	0	0	0	0	0	0.000000e+00	

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## CSI045      0      0      0      0      0 3.265093e-05
## CSI056      0      0      0      0      0 0.000000e+00
## CSI066      0      0      0      0      0 0.000000e+00
##           0tu10670 0tu10671      0tu10672 0tu10673 0tu10674 0tu10675
## CSI002 0.000000e+00      0 2.724387e-05      0      0      0
## CSI013 3.195807e-05      0 0.000000e+00      0      0      0
## CSI023 0.000000e+00      0 0.000000e+00      0      0      0
## CSI034 0.000000e+00      0 0.000000e+00      0      0      0
## CSI045 0.000000e+00      0 0.000000e+00      0      0      0
## CSI056 0.000000e+00      0 0.000000e+00      0      0      0
## CSI066 0.000000e+00      0 0.000000e+00      0      0      0
##           0tu10676 0tu10677 0tu10678 0tu10679 0tu10680 0tu10681 0tu10682
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##           0tu10683 0tu10684 0tu10685 0tu10686 0tu10687 0tu10688 0tu10689
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 1.959286e-05      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##           0tu10690 0tu10691      0tu10692 0tu10693 0tu10694 0tu10695 0tu10696
## CSI002      0      0 0.000000e+00      0      0      0      0
## CSI013      0      0 0.000000e+00      0      0      0      0
## CSI023      0      0 0.000000e+00      0      0      0      0
## CSI034      0      0 1.894908e-05      0      0      0      0
## CSI045      0      0 0.000000e+00      0      0      0      0
## CSI056      0      0 0.000000e+00      0      0      0      0
## CSI066      0      0 0.000000e+00      0      0      0      0
##           0tu10697 0tu10698 0tu10699 0tu10700 0tu10701 0tu10702 0tu10703
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##           0tu10704 0tu10705 0tu10706 0tu10707 0tu10708      0tu10709 0tu10710
## CSI002      0      0      0      0      0 0.000000e+00      0
## CSI013      0      0      0      0      0 3.195807e-05      0
## CSI023      0      0      0      0      0 0.000000e+00      0
## CSI034      0      0      0      0      0 0.000000e+00      0
## CSI045      0      0      0      0      0 0.000000e+00      0
## CSI056      0      0      0      0      0 0.000000e+00      0
## CSI066      0      0      0      0      0 0.000000e+00      0
##           0tu10711 0tu10712 0tu10713 0tu10714 0tu10715 0tu10716 0tu10717
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0

```



##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10718	Otu10719	Otu10720	Otu10721	Otu10722	Otu10723	Otu10724
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10725	Otu10726	Otu10727	Otu10728	Otu10729	Otu10730	Otu10731
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10732	Otu10733	Otu10734	Otu10735	Otu10736	Otu10737	
##	CSI002	0	0	0.000000e+00	0	0	0	
##	CSI013	0	0	0.000000e+00	0	0	0	
##	CSI023	0	0	0.000000e+00	0	0	0	
##	CSI034	0	0	1.894908e-05	0	0	0	
##	CSI045	0	0	0.000000e+00	0	0	0	
##	CSI056	0	0	0.000000e+00	0	0	0	
##	CSI066	0	0	0.000000e+00	0	0	0	
##		Otu10738	Otu10739	Otu10740	Otu10741	Otu10742	Otu10743	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI066	0.000000e+00	1.916847e-05	0	0	0	0	
##		Otu10744	Otu10745	Otu10746	Otu10747	Otu10748	Otu10749	
##	CSI002	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI013	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI023	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI034	0	0	3.789817e-05	0	0	0.000000e+00	
##	CSI045	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI056	0	0	0.000000e+00	0	0	1.959286e-05	
##	CSI066	0	0	0.000000e+00	0	0	0.000000e+00	
##		Otu10750	Otu10751	Otu10752	Otu10753	Otu10754	Otu10755	Otu10756
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu10757	Otu10758	Otu10759	Otu10760	Otu10761	Otu10762	

##	CSI002	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI013	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI023	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI034	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI045	0	0	0.000000e+00	0	0	0.000000e+00
##	CSI056	0	0	0.000000e+00	0	0	1.959286e-05
##	CSI066	0	0	1.916847e-05	0	0	0.000000e+00
##	Otu10763	Otu10764	Otu10765	Otu10766	Otu10767	Otu10768	
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	3.265093e-05	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##	Otu10769	Otu10770	Otu10771	Otu10772	Otu10773	Otu10774	Otu10775
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	3.833694e-05	0	0	0	0	0
##	Otu10776	Otu10777	Otu10778	Otu10779	Otu10780	Otu10781	Otu10782
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##	Otu10783	Otu10784	Otu10785	Otu10786	Otu10787	Otu10788	Otu10789
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##	Otu10790	Otu10791	Otu10792	Otu10793	Otu10794	Otu10795	Otu10796
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##	Otu10797	Otu10798	Otu10799	Otu10800	Otu10801	Otu10802	Otu10803
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0

##	CSI066	0	0	0	0	0	0	0
##		Otu10804	Otu10805	Otu10806	Otu10807	Otu10808	Otu10809	
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI013	0	0	0.000000e+00	0	6.391614e-05	0	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI034	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0	0	1.959286e-05	0	0.000000e+00	0	
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0	
##		Otu10810	Otu10811	Otu10812	Otu10813	Otu10814	Otu10815	Otu10816
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	1.894908e-05	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		Otu10817	Otu10818	Otu10819	Otu10820	Otu10821	Otu10822	Otu10823
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10824	Otu10825	Otu10826	Otu10827	Otu10828	Otu10829	Otu10830
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10831	Otu10832	Otu10833	Otu10834	Otu10835	Otu10836	Otu10837
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10838	Otu10839	Otu10840	Otu10841	Otu10842	Otu10843	Otu10844
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10845	Otu10846	Otu10847	Otu10848	Otu10849	Otu10850	Otu10851
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0

##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10852	Otu10853	Otu10854	Otu10855	Otu10856	Otu10857	Otu10858
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10859	Otu10860	Otu10861	Otu10862	Otu10863	Otu10864	Otu10865
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10866	Otu10867	Otu10868	Otu10869	Otu10870	Otu10871	Otu10872
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	6.391614e-05	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu10873	Otu10874	Otu10875	Otu10876	Otu10877	Otu10878	Otu10879
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10880	Otu10881	Otu10882	Otu10883	Otu10884	Otu10885	
##	CSI002	0	0	1.362194e-05	2.724387e-05	0	0	
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI034	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI045	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0	
##		Otu10886	Otu10887	Otu10888	Otu10889	Otu10890	Otu10891	
##	CSI002	0.000000e+00	0	0	0	0	0	
##	CSI013	0.000000e+00	0	0	0	0	0	
##	CSI023	0.000000e+00	0	0	0	0	0	
##	CSI034	0.000000e+00	0	0	0	0	0	
##	CSI045	0.000000e+00	0	0	0	0	0	
##	CSI056	0.000000e+00	0	0	0	0	0	
##	CSI066	1.916847e-05	0	0	0	0	0	
##		Otu10892	Otu10893	Otu10894	Otu10895	Otu10896	Otu10897	Otu10898
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0

```

## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu10899 0tu10900 0tu10901 0tu10902 0tu10903 0tu10904 0tu10905
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu10906 0tu10907      0tu10908 0tu10909 0tu10910 0tu10911 0tu10912
## CSI002      0      0 0.000000e+00      0      0      0      0
## CSI013      0      0 0.000000e+00      0      0      0      0
## CSI023      0      0 0.000000e+00      0      0      0      0
## CSI034      0      0 3.789817e-05      0      0      0      0
## CSI045      0      0 0.000000e+00      0      0      0      0
## CSI056      0      0 0.000000e+00      0      0      0      0
## CSI066      0      0 0.000000e+00      0      0      0      0
##      0tu10913 0tu10914 0tu10915 0tu10916 0tu10917      0tu10918 0tu10919
## CSI002      0      0      0      0      0 0.000000e+00      0
## CSI013      0      0      0      0      0 0.000000e+00      0
## CSI023      0      0      0      0      0 0.000000e+00      0
## CSI034      0      0      0      0      0 0.000000e+00      0
## CSI045      0      0      0      0      0 6.530186e-05      0
## CSI056      0      0      0      0      0 0.000000e+00      0
## CSI066      0      0      0      0      0 0.000000e+00      0
##      0tu10920 0tu10921 0tu10922 0tu10923 0tu10924 0tu10925 0tu10926
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu10927 0tu10928 0tu10929 0tu10930 0tu10931 0tu10932 0tu10933
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu10934 0tu10935 0tu10936 0tu10937      0tu10938 0tu10939 0tu10940
## CSI002      0      0      0      0 0.000000e+00      0      0
## CSI013      0      0      0      0 6.391614e-05      0      0
## CSI023      0      0      0      0 0.000000e+00      0      0
## CSI034      0      0      0      0 0.000000e+00      0      0
## CSI045      0      0      0      0 0.000000e+00      0      0
## CSI056      0      0      0      0 0.000000e+00      0      0
## CSI066      0      0      0      0 0.000000e+00      0      0
##      0tu10941 0tu10942 0tu10943 0tu10944 0tu10945 0tu10946 0tu10947

```

##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10948	Otu10949	Otu10950	Otu10951	Otu10952	Otu10953	Otu10954
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10955	Otu10956	Otu10957	Otu10958	Otu10959	Otu10960	Otu10961
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10962	Otu10963	Otu10964	Otu10965	Otu10966	Otu10967	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	3.789817e-05	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##		Otu10968	Otu10969	Otu10970	Otu10971	Otu10972	Otu10973	Otu10974
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu10975	Otu10976	Otu10977	Otu10978	Otu10979	Otu10980	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI013	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI056	0.000000e+00	3.918572e-05	0	0	0	0	
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0	
##		Otu10981	Otu10982	Otu10983	Otu10984	Otu10985	Otu10986	Otu10987
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0

## CSI066	0	0	0	0	0	0	0
##	Otu10988	Otu10989	Otu10990	Otu10991	Otu10992	Otu10993	
## CSI002	0.000000e+00	0	0	0	0	0.000000e+00	
## CSI013	0.000000e+00	0	0	0	0	0.000000e+00	
## CSI023	4.082049e-05	0	0	0	0	0.000000e+00	
## CSI034	0.000000e+00	0	0	0	0	0.000000e+00	
## CSI045	0.000000e+00	0	0	0	0	0.000000e+00	
## CSI056	0.000000e+00	0	0	0	0	3.918572e-05	
## CSI066	0.000000e+00	0	0	0	0	0.000000e+00	
##	Otu10994	Otu10995	Otu10996	Otu10997	Otu10998	Otu10999	Otu11000
## CSI002	0	0	0	0	0	0	0.000000e+00
## CSI013	0	0	0	0	0	0	0.000000e+00
## CSI023	0	0	0	0	0	0	0.000000e+00
## CSI034	0	0	0	0	0	0	0.000000e+00
## CSI045	0	0	0	0	0	0	6.530186e-05
## CSI056	0	0	0	0	0	0	0.000000e+00
## CSI066	0	0	0	0	0	0	0.000000e+00
##	Otu11001	Otu11002	Otu11003	Otu11004	Otu11005	Otu11006	Otu11007
## CSI002	0	0	0	0.000000e+00	0	0	0
## CSI013	0	0	0	0.000000e+00	0	0	0
## CSI023	0	0	0	4.082049e-05	0	0	0
## CSI034	0	0	0	0.000000e+00	0	0	0
## CSI045	0	0	0	0.000000e+00	0	0	0
## CSI056	0	0	0	0.000000e+00	0	0	0
## CSI066	0	0	0	0.000000e+00	0	0	0
##	Otu11008	Otu11009	Otu11010	Otu11011	Otu11012	Otu11013	Otu11014
## CSI002	0	0	0	0	0	0	0
## CSI013	0	0	0	0	0	0	0
## CSI023	0	0	0	0	0	0	0
## CSI034	0	0	0	0	0	0	0
## CSI045	0	0	0	0	0	0	0
## CSI056	0	0	0	0	0	0	0
## CSI066	0	0	0	0	0	0	0
##	Otu11015	Otu11016	Otu11017	Otu11018	Otu11019	Otu11020	Otu11021
## CSI002	0	0	0.000000e+00	0	0	0	0
## CSI013	0	0	0.000000e+00	0	0	0	0
## CSI023	0	0	0.000000e+00	0	0	0	0
## CSI034	0	0	0.000000e+00	0	0	0	0
## CSI045	0	0	6.530186e-05	0	0	0	0
## CSI056	0	0	0.000000e+00	0	0	0	0
## CSI066	0	0	0.000000e+00	0	0	0	0
##	Otu11022	Otu11023	Otu11024	Otu11025	Otu11026	Otu11027	Otu11028
## CSI002	0	0	0	0	0	0	0
## CSI013	0	0	0	0	0	0	0
## CSI023	0	0	0	0	0	0	0
## CSI034	0	0	0	0	0	0	0
## CSI045	0	0	0	0	0	0	0
## CSI056	0	0	0	0	0	0	0
## CSI066	0	0	0	0	0	0	0
##	Otu11029	Otu11030	Otu11031	Otu11032	Otu11033	Otu11034	Otu11035
## CSI002	0	0	0	0	0	0	0
## CSI013	0	0	0	0	0	0	0
## CSI023	0	0	0	0	0	0	0
## CSI034	0	0	0	0	0	0	0

##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11036	Otu11037	Otu11038	Otu11039	Otu11040	Otu11041	Otu11042
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11043	Otu11044	Otu11045	Otu11046	Otu11047	Otu11048	Otu11049
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		Otu11050	Otu11051	Otu11052	Otu11053	Otu11054	Otu11055	Otu11056
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11057	Otu11058	Otu11059	Otu11060	Otu11061	Otu11062	
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI034	3.789817e-05	0	0	0.000000e+00	0	0	
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI066	0.000000e+00	0	0	3.833694e-05	0	0	
##		Otu11063	Otu11064	Otu11065	Otu11066	Otu11067	Otu11068	Otu11069
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11070	Otu11071	Otu11072	Otu11073	Otu11074	Otu11075	Otu11076
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11077	Otu11078	Otu11079	Otu11080	Otu11081	Otu11082	Otu11083
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0



##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	1.894908e-05	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##	Otu11084	Otu11085	Otu11086	Otu11087	Otu11088	Otu11089	Otu11090	
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##	Otu11091	Otu11092	Otu11093	Otu11094	Otu11095	Otu11096	Otu11097	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu11098	Otu11099	Otu11100	Otu11101	Otu11102	Otu11103	Otu11104	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu11105	Otu11106	Otu11107	Otu11108	Otu11109	Otu11110	Otu11111	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu11112	Otu11113	Otu11114	Otu11115	Otu11116	Otu11117		
##	CSI002	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	0	0	3.789817e-05	1.894908e-05	
##	CSI045	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI066	0	0	0	0	0.000000e+00	0.000000e+00	
##	Otu11118	Otu11119	Otu11120	Otu11121	Otu11122	Otu11123	Otu11124	
##	CSI002	0	0	0	0	0	0.000000e+00	
##	CSI013	0	0	0	0	0	0.000000e+00	
##	CSI023	0	0	0	0	0	0.000000e+00	
##	CSI034	0	0	0	0	0	0.000000e+00	
##	CSI045	0	0	0	0	0	0.000000e+00	
##	CSI056	0	0	0	0	0	0.000000e+00	
##	CSI066	0	0	0	0	0	0.000000e+00	
##	Otu11125	Otu11126	Otu11127	Otu11128	Otu11129	Otu11130	Otu11131	

##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11132	Otu11133	Otu11134	Otu11135	Otu11136	Otu11137	Otu11138
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11139	Otu11140	Otu11141	Otu11142	Otu11143	Otu11144	
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI013	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI034	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0	0	0.000000e+00	0	3.918572e-05	0	
##	CSI066	0	0	3.833694e-05	0	0.000000e+00	0	
##		Otu11145	Otu11146	Otu11147	Otu11148	Otu11149	Otu11150	Otu11151
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu11152	Otu11153	Otu11154	Otu11155	Otu11156	Otu11157	Otu11158
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11159	Otu11160	Otu11161	Otu11162	Otu11163	Otu11164	Otu11165
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu11166	Otu11167	Otu11168	Otu11169	Otu11170	Otu11171	Otu11172
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	1.959286e-05	0	0	0	0	0	0

##	CSI066	1.916847e-05	0	0	0	0	0	0
##		Otu11173	Otu11174	Otu11175	Otu11176	Otu11177	Otu11178	Otu11179
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11180	Otu11181	Otu11182	Otu11183	Otu11184	Otu11185	Otu11186
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11187	Otu11188	Otu11189	Otu11190	Otu11191	Otu11192	Otu11193
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11194	Otu11195	Otu11196	Otu11197	Otu11198	Otu11199	Otu11200
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11201	Otu11202	Otu11203	Otu11204	Otu11205	Otu11206	Otu11207
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11208	Otu11209	Otu11210	Otu11211	Otu11212	Otu11213	Otu11214
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu11215	Otu11216	Otu11217	Otu11218	Otu11219	Otu11220	Otu11221
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0

##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11222	Otu11223	Otu11224	Otu11225	Otu11226	Otu11227	Otu11228
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	3.789817e-05	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu11229	Otu11230	Otu11231	Otu11232	Otu11233	Otu11234	
##	CSI002	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI013	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI023	4.082049e-05	0	0	0	0	0.000000e+00	
##	CSI034	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI045	0.000000e+00	0	0	0	0	6.530186e-05	
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00	
##		Otu11235	Otu11236	Otu11237	Otu11238	Otu11239	Otu11240	Otu11241
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	3.789817e-05	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu11242	Otu11243	Otu11244	Otu11245	Otu11246	Otu11247	Otu11248
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11249	Otu11250	Otu11251	Otu11252	Otu11253	Otu11254	Otu11255
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11256	Otu11257	Otu11258	Otu11259	Otu11260	Otu11261	
##	CSI002	0	0.000000e+00	0	1.362194e-05	0	0	
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI034	0	1.894908e-05	0	0.000000e+00	0	0	
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI066	0	0.000000e+00	0	0.000000e+00	0	0	
##		Otu11262	Otu11263	Otu11264	Otu11265	Otu11266	Otu11267	Otu11268
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0

##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu11269	0tu11270	0tu11271	0tu11272	0tu11273	0tu11274	0tu11275
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		0tu11276	0tu11277	0tu11278	0tu11279	0tu11280	0tu11281	0tu11282
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	3.918572e-05	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		0tu11283	0tu11284	0tu11285	0tu11286	0tu11287	0tu11288	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI013	6.391614e-05	0.000000e+00	0	0	0	0.000000e+00	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0.000000e+00	
##	CSI066	0.000000e+00	1.916847e-05	0	0	0	0.000000e+00	
##		0tu11289	0tu11290	0tu11291	0tu11292	0tu11293	0tu11294	0tu11295
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu11296	0tu11297	0tu11298	0tu11299	0tu11300	0tu11301	0tu11302
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu11303	0tu11304	0tu11305	0tu11306	0tu11307	0tu11308	0tu11309
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu11310	0tu11311	0tu11312	0tu11313	0tu11314	0tu11315	0tu11316

##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11317	Otu11318	Otu11319	Otu11320	Otu11321	Otu11322	
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI013	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI034	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0	0	1.959286e-05	0	0.000000e+00	0	
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0	
##		Otu11323	Otu11324	Otu11325	Otu11326	Otu11327	Otu11328	Otu11329
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	1.959286e-05	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu11330	Otu11331	Otu11332	Otu11333	Otu11334	Otu11335	Otu11336
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11337	Otu11338	Otu11339	Otu11340	Otu11341	Otu11342	Otu11343
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11344	Otu11345	Otu11346	Otu11347	Otu11348	Otu11349	Otu11350
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	1.894908e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu11351	Otu11352	Otu11353	Otu11354	Otu11355	Otu11356	Otu11357
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0

##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu11358	Otu11359	Otu11360	Otu11361	Otu11362	Otu11363	Otu11364
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	1.959286e-05	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		Otu11365	Otu11366	Otu11367	Otu11368	Otu11369	Otu11370	Otu11371
##	CSI002	2.724387e-05	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu11372	Otu11373	Otu11374	Otu11375	Otu11376	Otu11377	Otu11378
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11379	Otu11380	Otu11381	Otu11382	Otu11383	Otu11384	Otu11385
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu11386	Otu11387	Otu11388	Otu11389	Otu11390	Otu11391	Otu11392
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11393	Otu11394	Otu11395	Otu11396	Otu11397	Otu11398	Otu11399
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		Otu11400	Otu11401	Otu11402	Otu11403	Otu11404	Otu11405	
##	CSI002	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI034	0	0	3.789817e-05	0.000000e+00	0	0	

##	CSI045	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0	
##		Otu11406	Otu11407	Otu11408	Otu11409	Otu11410	Otu11411	Otu11412
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	1.894908e-05	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu11413	Otu11414	Otu11415	Otu11416	Otu11417	Otu11418	Otu11419
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu11420	Otu11421	Otu11422	Otu11423	Otu11424	Otu11425	Otu11426
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	6.391614e-05	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu11427	Otu11428	Otu11429	Otu11430	Otu11431	Otu11432	Otu11433
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11434	Otu11435	Otu11436	Otu11437	Otu11438	Otu11439	Otu11440
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		Otu11441	Otu11442	Otu11443	Otu11444	Otu11445	Otu11446	Otu11447
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	1.894908e-05	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu11448	Otu11449	Otu11450	Otu11451	Otu11452	Otu11453	Otu11454
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0



##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		Otu11455	Otu11456	Otu11457	Otu11458	Otu11459	Otu11460	Otu11461
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		Otu11462	Otu11463	Otu11464	Otu11465	Otu11466	Otu11467	
##	CSI002	0	0	0	0.000000e+00	0	0	
##	CSI013	0	0	0	0.000000e+00	0	0	
##	CSI023	0	0	0	0.000000e+00	0	0	
##	CSI034	0	0	0	0.000000e+00	0	0	
##	CSI045	0	0	0	0.000000e+00	0	0	
##	CSI056	0	0	0	0.000000e+00	0	0	
##	CSI066	0	0	0	0.000000e+00	0	0	
##		Otu11468	Otu11469	Otu11470	Otu11471	Otu11472		
##	CSI002	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		0	
##	CSI013	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		0	
##	CSI023	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		0	
##	CSI034	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		0	
##	CSI045	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		0	
##	CSI056	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00		0	
##	CSI066	0.000000e+00	1.916847e-05	0.000000e+00	0.000000e+00		0	
##		Otu11473	Otu11474	Otu11475	Otu11476	Otu11477	Otu11478	Otu11479
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		Otu11480	Otu11481	Otu11482	Otu11483	Otu11484	Otu11485	Otu11486
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu11487	Otu11488	Otu11489	Otu11490	Otu11491	Otu11492	Otu11493
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11494	Otu11495	Otu11496	Otu11497	Otu11498	Otu11499	Otu11500

##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	3.195807e-05	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		Otu11501	Otu11502	Otu11503	Otu11504	Otu11505	Otu11506	Otu11507
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	1.894908e-05	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu11508	Otu11509	Otu11510	Otu11511	Otu11512	Otu11513	
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI034	3.789817e-05	0	0	0.000000e+00	0	0	
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0	
##		Otu11514	Otu11515	Otu11516	Otu11517	Otu11518	Otu11519	
##	CSI002	1.362194e-05	0	0	0	0	1.362194e-05	
##	CSI013	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI023	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI034	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI045	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI056	0.000000e+00	0	0	0	0	0.000000e+00	
##	CSI066	0.000000e+00	0	0	0	0	0.000000e+00	
##		Otu11520	Otu11521	Otu11522	Otu11523	Otu11524	Otu11525	
##	CSI002	0	0	0.000000e+00	0	2.724387e-05	0	
##	CSI013	0	0	3.195807e-05	0	0.000000e+00	0	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI034	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0	
##		Otu11526	Otu11527	Otu11528	Otu11529	Otu11530	Otu11531	Otu11532
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu11533	Otu11534	Otu11535	Otu11536	Otu11537	Otu11538	Otu11539
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0

##	CSI066	0	0	0	0	0	0	0
##		Otu11540	Otu11541	Otu11542	Otu11543	Otu11544	Otu11545	Otu11546
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		Otu11547	Otu11548	Otu11549	Otu11550	Otu11551	Otu11552	Otu11553
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11554	Otu11555	Otu11556	Otu11557	Otu11558	Otu11559	Otu11560
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11561	Otu11562	Otu11563	Otu11564	Otu11565	Otu11566	Otu11567
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11568	Otu11569	Otu11570	Otu11571	Otu11572	Otu11573	Otu11574
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	1.959286e-05	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu11575	Otu11576	Otu11577	Otu11578	Otu11579	Otu11580	Otu11581
##	CSI002	0	2.724387e-05	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		Otu11582	Otu11583	Otu11584	Otu11585	Otu11586	Otu11587	Otu11588
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0

##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11589	Otu11590	Otu11591	Otu11592	Otu11593	Otu11594	Otu11595
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11596	Otu11597	Otu11598	Otu11599	Otu11600	Otu11601	
##	CSI002	0	0	0	1.362194e-05	0	0.000000e+00	
##	CSI013	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI023	0	0	0	2.041025e-05	0	0.000000e+00	
##	CSI034	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI045	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI056	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI066	0	0	0	0.000000e+00	0	0.000000e+00	
##		Otu11602	Otu11603	Otu11604	Otu11605	Otu11606	Otu11607	
##	CSI002	0	0	0	0	0.000000e+00	0	
##	CSI013	0	0	0	0	0.000000e+00	0	
##	CSI023	0	0	0	0	0.000000e+00	0	
##	CSI034	0	0	0	0	0.000000e+00	0	
##	CSI045	0	0	0	0	6.530186e-05	0	
##	CSI056	0	0	0	0	0.000000e+00	0	
##	CSI066	0	0	0	0	0.000000e+00	0	
##		Otu11608	Otu11609	Otu11610	Otu11611	Otu11612	Otu11613	
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI034	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI066	3.833694e-05	0	0	0	0.000000e+00	0	
##		Otu11614	Otu11615	Otu11616	Otu11617	Otu11618	Otu11619	Otu11620
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	1.916847e-05
##		Otu11621	Otu11622	Otu11623	Otu11624	Otu11625	Otu11626	Otu11627
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu11628	Otu11629	Otu11630	Otu11631	Otu11632	Otu11633	Otu11634
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0

##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		Otu11635	Otu11636	Otu11637	Otu11638	Otu11639	Otu11640	Otu11641
##	CSI002	2.724387e-05	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu11642	Otu11643	Otu11644	Otu11645	Otu11646	Otu11647	Otu11648
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu11649	Otu11650	Otu11651	Otu11652	Otu11653	Otu11654	Otu11655
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11656	Otu11657	Otu11658	Otu11659	Otu11660	Otu11661	Otu11662
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11663	Otu11664	Otu11665	Otu11666	Otu11667	Otu11668	Otu11669
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu11670	Otu11671	Otu11672	Otu11673	Otu11674	Otu11675	Otu11676
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11677	Otu11678	Otu11679	Otu11680	Otu11681	Otu11682	Otu11683

##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		Otu11684	Otu11685	Otu11686	Otu11687	Otu11688	Otu11689	Otu11690
##	CSI002	0	0	0	0	2.724387e-05	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu11691	Otu11692	Otu11693	Otu11694	Otu11695	Otu11696	
##	CSI002	0	0	0	0	0.000000e+00	0	
##	CSI013	0	0	0	0	0.000000e+00	0	
##	CSI023	0	0	0	0	0.000000e+00	0	
##	CSI034	0	0	0	0	0.000000e+00	0	
##	CSI045	0	0	0	0	0.000000e+00	0	
##	CSI056	0	0	0	0	0.000000e+00	0	
##	CSI066	0	0	0	0	0.000000e+00	0	
##		Otu11697	Otu11698	Otu11699	Otu11700	Otu11701	Otu11702	Otu11703
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu11704	Otu11705	Otu11706	Otu11707	Otu11708	Otu11709	Otu11710
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11711	Otu11712	Otu11713	Otu11714	Otu11715	Otu11716	Otu11717
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11718	Otu11719	Otu11720	Otu11721	Otu11722	Otu11723	
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI034	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0	

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## CSI066 0.000000e+00      0      0      0 0.000000e+00      0
##      0tu11724 0tu11725 0tu11726 0tu11727 0tu11728      0tu11729
## CSI002      0      0      0      0      0 0.000000e+00
## CSI013      0      0      0      0      0 0.000000e+00
## CSI023      0      0      0      0      0 0.000000e+00
## CSI034      0      0      0      0      0 0.000000e+00
## CSI045      0      0      0      0      0 0.000000e+00
## CSI056      0      0      0      0      0 0.000000e+00
## CSI066      0      0      0      0      0 0.000000e+00
##      0tu11730 0tu11731 0tu11732 0tu11733      0tu11734 0tu11735
## CSI002 0.000000e+00      0      0      0 0.000000e+00      0
## CSI013 0.000000e+00      0      0      0 0.000000e+00      0
## CSI023 0.000000e+00      0      0      0 0.000000e+00      0
## CSI034 0.000000e+00      0      0      0 0.000000e+00      0
## CSI045 3.265093e-05      0      0      0 0.000000e+00      0
## CSI056 0.000000e+00      0      0      0 0.000000e+00      0
## CSI066 1.916847e-05      0      0      0 0.000000e+00      0
##      0tu11736 0tu11737 0tu11738 0tu11739      0tu11740 0tu11741
## CSI002      0      0      0      0 0.000000e+00      0
## CSI013      0      0      0      0 3.195807e-05      0
## CSI023      0      0      0      0 0.000000e+00      0
## CSI034      0      0      0      0 0.000000e+00      0
## CSI045      0      0      0      0 0.000000e+00      0
## CSI056      0      0      0      0 0.000000e+00      0
## CSI066      0      0      0      0 0.000000e+00      0
##      0tu11742 0tu11743 0tu11744 0tu11745 0tu11746 0tu11747 0tu11748
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu11749      0tu11750 0tu11751 0tu11752 0tu11753      0tu11754
## CSI002      0 0.000000e+00      0      0      0 0.000000e+00
## CSI013      0 0.000000e+00      0      0      0 0.000000e+00
## CSI023      0 0.000000e+00      0      0      0 0.000000e+00
## CSI034      0 0.000000e+00      0      0      0 0.000000e+00
## CSI045      0 0.000000e+00      0      0      0 0.000000e+00
## CSI056      0 0.000000e+00      0      0      0 0.000000e+00
## CSI066      0 3.833694e-05      0      0      0 3.833694e-05
##      0tu11755 0tu11756 0tu11757 0tu11758      0tu11759 0tu11760
## CSI002      0      0      0      0 0.000000e+00      0
## CSI013      0      0      0      0 0.000000e+00      0
## CSI023      0      0      0      0 0.000000e+00      0
## CSI034      0      0      0      0 0.000000e+00      0
## CSI045      0      0      0      0 0.000000e+00      0
## CSI056      0      0      0      0 0.000000e+00      0
## CSI066      0      0      0      0 0.000000e+00      0
##      0tu11761 0tu11762 0tu11763 0tu11764 0tu11765 0tu11766 0tu11767
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 0.000000e+00      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 3.789817e-05      0      0      0      0      0      0

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##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu11768	Otu11769	Otu11770	Otu11771	Otu11772	Otu11773	Otu11774
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11775	Otu11776	Otu11777	Otu11778	Otu11779	Otu11780	Otu11781
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11782	Otu11783	Otu11784	Otu11785	Otu11786	Otu11787	Otu11788
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11789	Otu11790	Otu11791	Otu11792	Otu11793	Otu11794	Otu11795
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11796	Otu11797	Otu11798	Otu11799	Otu11800	Otu11801	Otu11802
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	3.789817e-05
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		Otu11803	Otu11804	Otu11805	Otu11806	Otu11807	Otu11808	Otu11809
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	1.894908e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu11810	Otu11811	Otu11812	Otu11813	Otu11814	Otu11815	Otu11816
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0



##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	1.894908e-05	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		Otu11817	Otu11818	Otu11819	Otu11820	Otu11821	Otu11822	Otu11823
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11824	Otu11825	Otu11826	Otu11827	Otu11828	Otu11829	Otu11830
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11831	Otu11832	Otu11833	Otu11834	Otu11835	Otu11836	Otu11837
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	1.894908e-05	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		Otu11838	Otu11839	Otu11840	Otu11841	Otu11842	Otu11843	Otu11844
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11845	Otu11846	Otu11847	Otu11848	Otu11849	Otu11850	Otu11851
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	3.789817e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu11852	Otu11853	Otu11854	Otu11855	Otu11856	Otu11857	Otu11858
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	3.789817e-05	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		Otu11859	Otu11860	Otu11861	Otu11862	Otu11863	Otu11864	

##	CSI002	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0	0	0.000000e+00	1.894908e-05	0	0
##	CSI045	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0
##		Otu11865	Otu11866	Otu11867	Otu11868	Otu11869	Otu11870
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0
##	CSI056	3.918572e-05	0	0	0	0.000000e+00	0
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0
##		Otu11871	Otu11872	Otu11873	Otu11874	Otu11875	Otu11876
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		Otu11878	Otu11879	Otu11880	Otu11881	Otu11882	Otu11883
##	CSI002	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI023	0	0.000000e+00	0	2.041025e-05	0	0
##	CSI034	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI066	0	0.000000e+00	0	0.000000e+00	0	0
##		Otu11884	Otu11885	Otu11886	Otu11887	Otu11888	Otu11889
##	CSI002	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0.000000e+00	0
##		Otu11891	Otu11892	Otu11893	Otu11894	Otu11895	Otu11896
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		Otu11898	Otu11899	Otu11900	Otu11901	Otu11902	Otu11903
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0

##	CSI066	0	0	0	0	0	0	0
##		Otu11905	Otu11906	Otu11907	Otu11908	Otu11909	Otu11910	
##	CSI002	0	0.000000e+00	0	0	0	2.724387e-05	
##	CSI013	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI023	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI034	0	3.789817e-05	0	0	0	0.000000e+00	
##	CSI045	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI056	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI066	0	0.000000e+00	0	0	0	0.000000e+00	
##		Otu11911	Otu11912	Otu11913	Otu11914	Otu11915	Otu11916	Otu11917
##	CSI002	0	0	0	0	1.362194e-05	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu11918	Otu11919	Otu11920	Otu11921	Otu11922	Otu11923	Otu11924
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	3.789817e-05	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		Otu11925	Otu11926	Otu11927	Otu11928	Otu11929	Otu11930	Otu11931
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	3.789817e-05
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		Otu11932	Otu11933	Otu11934	Otu11935	Otu11936	Otu11937	
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI034	1.894908e-05	0	0	1.894908e-05	0	0	
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI056	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI066	0.000000e+00	0	0	0.000000e+00	0	0	
##		Otu11938	Otu11939	Otu11940	Otu11941	Otu11942	Otu11943	Otu11944
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		Otu11945	Otu11946	Otu11947	Otu11948	Otu11949	Otu11950	Otu11951
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0

##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11952	Otu11953	Otu11954	Otu11955	Otu11956	Otu11957	
##	CSI002	0	0.000000e+00	0	0	1.362194e-05	0	
##	CSI013	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI023	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI034	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI045	0	0.000000e+00	0	0	0.000000e+00	0	
##	CSI056	0	3.918572e-05	0	0	0.000000e+00	0	
##	CSI066	0	0.000000e+00	0	0	0.000000e+00	0	
##		Otu11958	Otu11959	Otu11960	Otu11961	Otu11962	Otu11963	
##	CSI002	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI013	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI034	3.789817e-05	0	0.000000e+00	0.000000e+00	0	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI056	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##	CSI066	0.000000e+00	0	0.000000e+00	0.000000e+00	0	0	
##		Otu11964	Otu11965	Otu11966	Otu11967	Otu11968	Otu11969	Otu11970
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		Otu11971	Otu11972	Otu11973	Otu11974	Otu11975	Otu11976	Otu11977
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11978	Otu11979	Otu11980	Otu11981	Otu11982	Otu11983	Otu11984
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11985	Otu11986	Otu11987	Otu11988	Otu11989	Otu11990	Otu11991
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu11992	Otu11993	Otu11994	Otu11995	Otu11996	Otu11997	Otu11998
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0

##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu11999	Otu12000	Otu12001	Otu12002	Otu12003	Otu12004	Otu12005	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu12006	Otu12007	Otu12008	Otu12009	Otu12010	Otu12011	Otu12012	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu12013	Otu12014	Otu12015	Otu12016	Otu12017	Otu12018	Otu12019	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu12020	Otu12021	Otu12022	Otu12023	Otu12024	Otu12025	Otu12026	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu12027	Otu12028	Otu12029	Otu12030	Otu12031	Otu12032	Otu12033	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu12034	Otu12035	Otu12036	Otu12037	Otu12038	Otu12039		
##	CSI002	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI034	0	0	0.000000e+00	1.894908e-05	0	0	
##	CSI045	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0	
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0	
##	Otu12040	Otu12041	Otu12042	Otu12043	Otu12044	Otu12045		

##	CSI002	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI034	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI066	0	1.916847e-05	0	0.000000e+00	0	0
##		Otu12046	Otu12047	Otu12048	Otu12049	Otu12050	Otu12051
##	CSI002	0	0	0	0	0	0 0.000000e+00
##	CSI013	0	0	0	0	0	0 0.000000e+00
##	CSI023	0	0	0	0	0	0 0.000000e+00
##	CSI034	0	0	0	0	0	0 0.000000e+00
##	CSI045	0	0	0	0	0	0 0.000000e+00
##	CSI056	0	0	0	0	0	0 0.000000e+00
##	CSI066	0	0	0	0	0	0 0.000000e+00
##		Otu12053	Otu12054	Otu12055	Otu12056	Otu12057	Otu12058
##	CSI002	0	0	0	0	0	0 0.000000e+00
##	CSI013	0	0	0	0	0	0 0.000000e+00
##	CSI023	0	0	0	0	0	0 0.000000e+00
##	CSI034	0	0	0	0	0	0 0.000000e+00
##	CSI045	0	0	0	0	0	0 0.000000e+00
##	CSI056	0	0	0	0	0	0 0.000000e+00
##	CSI066	0	0	0	0	0	0 0.000000e+00
##		Otu12060	Otu12061	Otu12062	Otu12063	Otu12064	Otu12065
##	CSI002	0	0.000000e+00	0	0	0	0 0
##	CSI013	0	0.000000e+00	0	0	0	0 0
##	CSI023	0	0.000000e+00	0	0	0	0 0
##	CSI034	0	0.000000e+00	0	0	0	0 0
##	CSI045	0	0.000000e+00	0	0	0	0 0
##	CSI056	0	0.000000e+00	0	0	0	0 0
##	CSI066	0	0.000000e+00	0	0	0	0 0
##		Otu12067	Otu12068	Otu12069	Otu12070	Otu12071	Otu12072
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0
##	CSI023	0	0	0	0	0	0 0
##	CSI034	0	0	0	0	0	0 0
##	CSI045	0	0	0	0	0	0 0
##	CSI056	0	0	0	0	0	0 0
##	CSI066	0	0	0	0	0	0 0
##		Otu12074	Otu12075	Otu12076	Otu12077	Otu12078	Otu12079
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0
##	CSI023	0	0	0	0	0	0 0
##	CSI034	0	0	0	0	0	0 0
##	CSI045	0	0	0	0	0	0 0
##	CSI056	0	0	0	0	0	0 0
##	CSI066	0	0	0	0	0	0 0
##		Otu12081	Otu12082	Otu12083	Otu12084	Otu12085	Otu12086
##	CSI002	0	0	0	0	0	0 0.000000e+00
##	CSI013	0	0	0	0	0	0 0.000000e+00
##	CSI023	0	0	0	0	0	0 0.000000e+00
##	CSI034	0	0	0	0	0	0 0.000000e+00
##	CSI045	0	0	0	0	0	0 0.000000e+00
##	CSI056	0	0	0	0	0	0 0.000000e+00

##	CSI066	0	0	0	0	0	0	3.833694e-05
##		Otu12088	Otu12089	Otu12090	Otu12091	Otu12092	Otu12093	Otu12094
##	CSI002	1.362194e-05	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu12095	Otu12096	Otu12097	Otu12098	Otu12099	Otu12100	
##	CSI002	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI013	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI023	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI034	0	0	1.894908e-05	0	0	3.789817e-05	
##	CSI045	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI056	0	0	0.000000e+00	0	0	0.000000e+00	
##	CSI066	0	0	0.000000e+00	0	0	0.000000e+00	
##		Otu12101	Otu12102	Otu12103	Otu12104	Otu12105	Otu12106	
##	CSI002	0.000000e+00	0	2.724387e-05	0	0	0	
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI034	1.894908e-05	0	0.000000e+00	0	0	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0	
##		Otu12107	Otu12108	Otu12109	Otu12110	Otu12111	Otu12112	Otu12113
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	6.391614e-05	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		Otu12114	Otu12115	Otu12116	Otu12117	Otu12118	Otu12119	
##	CSI002	0	0	0	0	1.362194e-05	0	
##	CSI013	0	0	0	0	3.195807e-05	0	
##	CSI023	0	0	0	0	0.000000e+00	0	
##	CSI034	0	0	0	0	0.000000e+00	0	
##	CSI045	0	0	0	0	0.000000e+00	0	
##	CSI056	0	0	0	0	0.000000e+00	0	
##	CSI066	0	0	0	0	0.000000e+00	0	
##		Otu12120	Otu12121	Otu12122	Otu12123	Otu12124	Otu12125	
##	CSI002	0.000000e+00	0	0	0	0	0	
##	CSI013	3.195807e-05	0	0	0	0	0	
##	CSI023	0.000000e+00	0	0	0	0	0	
##	CSI034	0.000000e+00	0	0	0	0	0	
##	CSI045	0.000000e+00	0	0	0	0	0	
##	CSI056	0.000000e+00	0	0	0	0	0	
##	CSI066	0.000000e+00	0	0	0	0	0	
##		Otu12126	Otu12127	Otu12128	Otu12129	Otu12130	Otu12131	
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI013	3.195807e-05	0	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI034	0.000000e+00	0	0	0	0.000000e+00	0	

##	CSI045	0.000000e+00	0	0	0	6.530186e-05	0	
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0	
##		Otu12132	Otu12133	Otu12134	Otu12135	Otu12136	Otu12137	
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI013	0.000000e+00	0	3.195807e-05	0	0	0	
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI034	1.894908e-05	0	0.000000e+00	0	0	0	
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0	
##	CSI066	0.000000e+00	0	1.916847e-05	0	0	0	
##		Otu12138	Otu12139	Otu12140	Otu12141	Otu12142	Otu12143	Otu12144
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12145	Otu12146	Otu12147	Otu12148	Otu12149	Otu12150	
##	CSI002	0	0	0.000000e+00	0	0	0	
##	CSI013	0	0	0.000000e+00	0	0	0	
##	CSI023	0	0	0.000000e+00	0	0	0	
##	CSI034	0	0	3.789817e-05	0	0	0	
##	CSI045	0	0	0.000000e+00	0	0	0	
##	CSI056	0	0	0.000000e+00	0	0	0	
##	CSI066	0	0	0.000000e+00	0	0	0	
##		Otu12151	Otu12152	Otu12153	Otu12154	Otu12155	Otu12156	Otu12157
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu12158	Otu12159	Otu12160	Otu12161	Otu12162	Otu12163	Otu12164
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12165	Otu12166	Otu12167	Otu12168	Otu12169	Otu12170	Otu12171
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12172	Otu12173	Otu12174	Otu12175	Otu12176	Otu12177	Otu12178
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0



##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12179	Otu12180	Otu12181	Otu12182	Otu12183	Otu12184	
##	CSI002	0	0.000000e+00	0	0	0	1.362194e-05	
##	CSI013	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI023	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI034	0	1.894908e-05	0	0	0	0.000000e+00	
##	CSI045	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI056	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI066	0	0.000000e+00	0	0	0	0.000000e+00	
##		Otu12185	Otu12186	Otu12187	Otu12188	Otu12189	Otu12190	Otu12191
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12192	Otu12193	Otu12194	Otu12195	Otu12196	Otu12197	
##	CSI002	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI013	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI023	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI034	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI045	0.000000e+00	0	0	0.000000e+00	0	0	
##	CSI056	0.000000e+00	0	0	1.959286e-05	0	0	
##	CSI066	1.916847e-05	0	0	0.000000e+00	0	0	
##		Otu12198	Otu12199	Otu12200	Otu12201	Otu12202	Otu12203	Otu12204
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12205	Otu12206	Otu12207	Otu12208	Otu12209	Otu12210	Otu12211
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		Otu12212	Otu12213	Otu12214	Otu12215	Otu12216	Otu12217	Otu12218
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		Otu12219	Otu12220	Otu12221	Otu12222	Otu12223	Otu12224	

##	CSI002	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI013	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI023	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI034	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI045	0	0	0	0	0.000000e+00	0.000000e+00
##	CSI056	0	0	0	0	0.000000e+00	1.959286e-05
##	CSI066	0	0	0	0	0.000000e+00	0.000000e+00
##		Otu12225	Otu12226	Otu12227	Otu12228	Otu12229	Otu12230
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI013	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI034	0	0	3.789817e-05	0	1.894908e-05	0.000000e+00
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	1.959286e-05
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00
##		Otu12231	Otu12232	Otu12233	Otu12234	Otu12235	Otu12236
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		Otu12238	Otu12239	Otu12240	Otu12241	Otu12242	Otu12243
##	CSI002	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0
##		Otu12245	Otu12246	Otu12247	Otu12248	Otu12249	Otu12250
##	CSI002	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI013	0	0.000000e+00	0	0	3.195807e-05	0
##	CSI023	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI034	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI045	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI056	0	0.000000e+00	0	0	0.000000e+00	0
##	CSI066	0	0.000000e+00	0	0	0.000000e+00	0
##		Otu12251	Otu12252	Otu12253	Otu12254	Otu12255	Otu12256
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		Otu12258	Otu12259	Otu12260	Otu12261	Otu12262	Otu12263
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0

##	CSI066	0	0	0	0	0	0	0
##		0tu12265	0tu12266	0tu12267	0tu12268	0tu12269	0tu12270	
##	CSI002	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI013	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI045	0	0	0	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0	0	1.959286e-05	0.000000e+00	
##	CSI066	0	0	0	0	0.000000e+00	0.000000e+00	
##		0tu12271	0tu12272	0tu12273	0tu12274	0tu12275	0tu12276	0tu12277
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12278	0tu12279	0tu12280	0tu12281	0tu12282	0tu12283	0tu12284
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu12285	0tu12286	0tu12287	0tu12288	0tu12289	0tu12290	
##	CSI002	0	0	0.000000e+00	0	0	0	
##	CSI013	0	0	0.000000e+00	0	0	0	
##	CSI023	0	0	0.000000e+00	0	0	0	
##	CSI034	0	0	3.789817e-05	0	0	0	
##	CSI045	0	0	0.000000e+00	0	0	0	
##	CSI056	0	0	0.000000e+00	0	0	0	
##	CSI066	0	0	0.000000e+00	0	0	0	
##		0tu12291	0tu12292	0tu12293	0tu12294	0tu12295	0tu12296	
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0	0	0	6.391614e-05	0	
##	CSI023	4.082049e-05	0	0	0	0.000000e+00	0	
##	CSI034	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0	
##		0tu12297	0tu12298	0tu12299	0tu12300	0tu12301	0tu12302	0tu12303
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	1.894908e-05	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu12304	0tu12305	0tu12306	0tu12307	0tu12308	0tu12309	
##	CSI002	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI034	0	0.000000e+00	0	0.000000e+00	0	0	

##	CSI045	0	3.265093e-05	0	6.530186e-05	0	0
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0
##	CSI066	0	0.000000e+00	0	0.000000e+00	0	0
##		Otu12310	Otu12311	Otu12312	Otu12313	Otu12314	Otu12315
##	CSI002	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI013	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI023	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI034	0	0	0.000000e+00	1.894908e-05	0	0
##	CSI045	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI056	0	0	0.000000e+00	0.000000e+00	0	0
##	CSI066	0	0	0.000000e+00	0.000000e+00	0	0
##		Otu12316	Otu12317	Otu12318	Otu12319	Otu12320	Otu12321
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0.000000e+00	0	0
##		Otu12323	Otu12324	Otu12325	Otu12326	Otu12327	Otu12328
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		Otu12330	Otu12331	Otu12332	Otu12333	Otu12334	Otu12335
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI023	2.041025e-05	0	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0	1.894908e-05	0	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0
##		Otu12336	Otu12337	Otu12338	Otu12339	Otu12340	Otu12341
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		Otu12343	Otu12344	Otu12345	Otu12346	Otu12347	Otu12348
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		Otu12350	Otu12351	Otu12352	Otu12353	Otu12354	Otu12355
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0

##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		Otu12357	Otu12358	Otu12359	Otu12360	Otu12361	Otu12362
##	CSI002	0	0	0	0	0	1.362194e-05
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		Otu12364	Otu12365	Otu12366	Otu12367	Otu12368	Otu12369
##	CSI002	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI013	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI023	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI034	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI045	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0	0
##		Otu12370	Otu12371	Otu12372	Otu12373	Otu12374	Otu12375
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		Otu12377	Otu12378	Otu12379	Otu12380	Otu12381	Otu12382
##	CSI002	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	1.894908e-05	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0
##		Otu12384	Otu12385	Otu12386	Otu12387	Otu12388	Otu12389
##	CSI002	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI013	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI034	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI056	0	0	0	0.000000e+00	0.000000e+00	0
##	CSI066	0	0	0	0.000000e+00	0.000000e+00	0
##		Otu12390	Otu12391	Otu12392	Otu12393	Otu12394	Otu12395
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		Otu12397	Otu12398	Otu12399	Otu12400	Otu12401	Otu12402
##		Otu12403					

##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12404	0tu12405	0tu12406	0tu12407	0tu12408	0tu12409	
##	CSI002	0	0	0	0.000000e+00	0	0	
##	CSI013	0	0	0	0.000000e+00	0	0	
##	CSI023	0	0	0	0.000000e+00	0	0	
##	CSI034	0	0	0	1.894908e-05	0	0	
##	CSI045	0	0	0	0.000000e+00	0	0	
##	CSI056	0	0	0	0.000000e+00	0	0	
##	CSI066	0	0	0	0.000000e+00	0	0	
##		0tu12410	0tu12411	0tu12412	0tu12413	0tu12414	0tu12415	0tu12416
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	1.894908e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu12417	0tu12418	0tu12419	0tu12420	0tu12421	0tu12422	0tu12423
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12424	0tu12425	0tu12426	0tu12427	0tu12428	0tu12429	0tu12430
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12431	0tu12432	0tu12433	0tu12434	0tu12435	0tu12436	0tu12437
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	1.894908e-05	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu12438	0tu12439	0tu12440	0tu12441	0tu12442	0tu12443	0tu12444
##	CSI002	0	0	0	2.724387e-05	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0

##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu12445	0tu12446	0tu12447	0tu12448	0tu12449	0tu12450	0tu12451
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu12452	0tu12453	0tu12454	0tu12455	0tu12456	0tu12457	
##	CSI002	0	0	0.000000e+00	0	2.724387e-05	0.000000e+00	
##	CSI013	0	0	3.195807e-05	0	0.000000e+00	0.000000e+00	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI034	0	0	0.000000e+00	0	0.000000e+00	3.789817e-05	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0.000000e+00	
##		0tu12458	0tu12459	0tu12460	0tu12461	0tu12462	0tu12463	0tu12464
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	1.894908e-05	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu12465	0tu12466	0tu12467	0tu12468	0tu12469	0tu12470	0tu12471
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12472	0tu12473	0tu12474	0tu12475	0tu12476	0tu12477	0tu12478
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12479	0tu12480	0tu12481	0tu12482	0tu12483	0tu12484	0tu12485
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12486	0tu12487	0tu12488	0tu12489	0tu12490	0tu12491	0tu12492
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	1.894908e-05

##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		0tu12493	0tu12494	0tu12495	0tu12496	0tu12497	0tu12498	0tu12499
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12500	0tu12501	0tu12502	0tu12503	0tu12504	0tu12505	
##	CSI002	0	0	0	0	0.000000e+00	0	
##	CSI013	0	0	0	0	3.195807e-05	0	
##	CSI023	0	0	0	0	0.000000e+00	0	
##	CSI034	0	0	0	0	0.000000e+00	0	
##	CSI045	0	0	0	0	0.000000e+00	0	
##	CSI056	0	0	0	0	0.000000e+00	0	
##	CSI066	0	0	0	0	0.000000e+00	0	
##		0tu12506	0tu12507	0tu12508	0tu12509	0tu12510	0tu12511	
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0	0	0	6.391614e-05	0	
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI034	1.894908e-05	0	0	0	0.000000e+00	0	
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0	
##		0tu12512	0tu12513	0tu12514	0tu12515	0tu12516	0tu12517	0tu12518
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12519	0tu12520	0tu12521	0tu12522	0tu12523	0tu12524	0tu12525
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	3.789817e-05	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu12526	0tu12527	0tu12528	0tu12529	0tu12530	0tu12531	0tu12532
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		0tu12533	0tu12534	0tu12535	0tu12536	0tu12537	0tu12538	
##	CSI002	0.000000e+00	0	1.362194e-05	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0	



##	CSI023	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI034	0.000000e+00	0	0.000000e+00	0	3.789817e-05	0
##	CSI045	6.530186e-05	0	0.000000e+00	0	0.000000e+00	0
##	CSI056	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##	CSI066	0.000000e+00	0	0.000000e+00	0	0.000000e+00	0
##		Otu12539	Otu12540	Otu12541	Otu12542	Otu12543	Otu12544 Otu12545
##	CSI002	0	0	0	0	0	1.362194e-05 0
##	CSI013	0	0	0	0	0	0.000000e+00 0
##	CSI023	0	0	0	0	0	0.000000e+00 0
##	CSI034	0	0	0	0	0	0.000000e+00 0
##	CSI045	0	0	0	0	0	0.000000e+00 0
##	CSI056	0	0	0	0	0	0.000000e+00 0
##	CSI066	0	0	0	0	0	0.000000e+00 0
##		Otu12546	Otu12547	Otu12548	Otu12549	Otu12550	Otu12551 Otu12552
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0
##	CSI023	0	0	0	0	0	0 0
##	CSI034	0	0	0	0	0	0 0
##	CSI045	0	0	0	0	0	0 0
##	CSI056	0	0	0	0	0	0 0
##	CSI066	0	0	0	0	0	0 0
##		Otu12553	Otu12554	Otu12555	Otu12556	Otu12557	Otu12558 Otu12559
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0
##	CSI023	0	0	0	0	0	0 0
##	CSI034	0	0	0	0	0	0 0
##	CSI045	0	0	0	0	0	0 0
##	CSI056	0	0	0	0	0	0 0
##	CSI066	0	0	0	0	0	0 0
##		Otu12560	Otu12561	Otu12562	Otu12563	Otu12564	Otu12565 Otu12566
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0
##	CSI023	0	0	0	0	0	0 0
##	CSI034	0	0	0	0	0	0 0
##	CSI045	0	0	0	0	0	0 0
##	CSI056	0	0	0	0	0	0 0
##	CSI066	0	0	0	0	0	0 0
##		Otu12567	Otu12568	Otu12569	Otu12570	Otu12571	Otu12572 Otu12573
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0
##	CSI023	0	0	0	0	0	0 0
##	CSI034	0	0	0	0	0	0 0
##	CSI045	0	0	0	0	0	0 0
##	CSI056	0	0	0	0	0	0 0
##	CSI066	0	0	0	0	0	0 0
##		Otu12574	Otu12575	Otu12576	Otu12577	Otu12578	Otu12579 Otu12580
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0
##	CSI023	0	0	0	0	0	0 0
##	CSI034	0	0	0	0	0	0 0
##	CSI045	0	0	0	0	0	0 0
##	CSI056	0	0	0	0	0	0 0
##	CSI066	0	0	0	0	0	0 0
##		Otu12581	Otu12582	Otu12583	Otu12584	Otu12585	Otu12586 Otu12587

##	CSI002	0	0	0	0	0	0 0.000000e+00
##	CSI013	0	0	0	0	0	0 0.000000e+00
##	CSI023	0	0	0	0	0	0 0.000000e+00
##	CSI034	0	0	0	0	0	0 0.000000e+00
##	CSI045	0	0	0	0	0	0 0.000000e+00
##	CSI056	0	0	0	0	0	0 0.000000e+00
##	CSI066	0	0	0	0	0	0 0.000000e+00
##		0tu12588	0tu12589	0tu12590	0tu12591	0tu12592	0tu12593 0tu12594
##	CSI002	0	0	0	0	2.724387e-05	0 0
##	CSI013	0	0	0	0	0.000000e+00	0 0
##	CSI023	0	0	0	0	0.000000e+00	0 0
##	CSI034	0	0	0	0	0.000000e+00	0 0
##	CSI045	0	0	0	0	0.000000e+00	0 0
##	CSI056	0	0	0	0	0.000000e+00	0 0
##	CSI066	0	0	0	0	0.000000e+00	0 0
##		0tu12595	0tu12596	0tu12597	0tu12598	0tu12599	0tu12600 0tu12601
##	CSI002	0	0.000000e+00	0	0	0	0 0
##	CSI013	0	0.000000e+00	0	0	0	0 0
##	CSI023	0	0.000000e+00	0	0	0	0 0
##	CSI034	0	0.000000e+00	0	0	0	0 0
##	CSI045	0	0.000000e+00	0	0	0	0 0
##	CSI056	0	0.000000e+00	0	0	0	0 0
##	CSI066	0	3.833694e-05	0	0	0	0 0
##		0tu12602	0tu12603	0tu12604	0tu12605	0tu12606	0tu12607 0tu12608
##	CSI002	0	0	0	0	0 0.000000e+00	0
##	CSI013	0	0	0	0	0 0.000000e+00	0
##	CSI023	0	0	0	0	0 0.000000e+00	0
##	CSI034	0	0	0	0	0 1.894908e-05	0
##	CSI045	0	0	0	0	0 0.000000e+00	0
##	CSI056	0	0	0	0	0 0.000000e+00	0
##	CSI066	0	0	0	0	0 0.000000e+00	0
##		0tu12609	0tu12610	0tu12611	0tu12612	0tu12613	0tu12614
##	CSI002	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0
##		0tu12615	0tu12616	0tu12617	0tu12618	0tu12619	0tu12620 0tu12621
##	CSI002	0.000000e+00	0	0	0	0	0 0
##	CSI013	0.000000e+00	0	0	0	0	0 0
##	CSI023	0.000000e+00	0	0	0	0	0 0
##	CSI034	0.000000e+00	0	0	0	0	0 0
##	CSI045	0.000000e+00	0	0	0	0	0 0
##	CSI056	0.000000e+00	0	0	0	0	0 0
##	CSI066	0.000000e+00	0	0	0	0	0 0
##		0tu12622	0tu12623	0tu12624	0tu12625	0tu12626	0tu12627 0tu12628
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0
##	CSI023	0	0	0	0	0	0 0
##	CSI034	0	0	0	0	0	0 0
##	CSI045	0	0	0	0	0	0 0
##	CSI056	0	0	0	0	0	0 0

##	CSI066	0	0	0	0	0	0	0
##		Otu12629	Otu12630	Otu12631	Otu12632	Otu12633	Otu12634	Otu12635
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		Otu12636	Otu12637	Otu12638	Otu12639	Otu12640	Otu12641	Otu12642
##	CSI002	0	0	0	0	1.362194e-05	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	1.894908e-05	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu12643	Otu12644	Otu12645	Otu12646	Otu12647	Otu12648	Otu12649
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12650	Otu12651	Otu12652	Otu12653	Otu12654	Otu12655	Otu12656
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12657	Otu12658	Otu12659	Otu12660	Otu12661	Otu12662	Otu12663
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12664	Otu12665	Otu12666	Otu12667	Otu12668	Otu12669	Otu12670
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12671	Otu12672	Otu12673	Otu12674	Otu12675	Otu12676	
##	CSI002	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI013	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI034	0	0.000000e+00	1.894908e-05	0	0	0	

##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0
##	CSI066	0	3.833694e-05	0.000000e+00	0	0	0
##		Otu12677	Otu12678	Otu12679	Otu12680	Otu12681	Otu12682
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		Otu12684	Otu12685	Otu12686	Otu12687	Otu12688	Otu12689
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		Otu12691	Otu12692	Otu12693	Otu12694	Otu12695	Otu12696
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	3.265093e-05
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		Otu12698	Otu12699	Otu12700	Otu12701	Otu12702	Otu12703
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		Otu12705	Otu12706	Otu12707	Otu12708	Otu12709	Otu12710
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		Otu12712	Otu12713	Otu12714	Otu12715	Otu12716	Otu12717
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		Otu12719	Otu12720	Otu12721	Otu12722	Otu12723	Otu12724
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0

##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu12726	Otu12727	Otu12728	Otu12729	Otu12730	Otu12731		
##	CSI002	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI013	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI023	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI034	0	1.894908e-05	0	0.000000e+00	0	0	
##	CSI045	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI056	0	0.000000e+00	0	0.000000e+00	0	0	
##	CSI066	0	0.000000e+00	0	0.000000e+00	0	0	
##	Otu12732	Otu12733	Otu12734	Otu12735	Otu12736	Otu12737	Otu12738	
##	CSI002	0	0	0	0	0	0	
##	CSI013	0	0	0	0	0	0	
##	CSI023	0	0	0	0	0	0	
##	CSI034	0	0	0	0	0	0	
##	CSI045	0	0	0	0	0	0	
##	CSI056	0	0	0	0	0	0	
##	CSI066	0	0	0	0	0	0	
##	Otu12739	Otu12740	Otu12741	Otu12742	Otu12743	Otu12744	Otu12745	
##	CSI002	0	0	0	0	0	0	
##	CSI013	0	0	0	0	0	0	
##	CSI023	0	0	0	0	0	0	
##	CSI034	0	0	0	0	0	0	
##	CSI045	0	0	0	0	0	0	
##	CSI056	0	0	0	0	0	0	
##	CSI066	0	0	0	0	0	0	
##	Otu12746	Otu12747	Otu12748	Otu12749	Otu12750	Otu12751	Otu12752	
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	1.916847e-05	0	0	0	0
##	Otu12753	Otu12754	Otu12755	Otu12756	Otu12757	Otu12758		
##	CSI002	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI013	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI034	0	1.894908e-05	0.000000e+00	0	0	0	
##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0	
##	Otu12759	Otu12760	Otu12761	Otu12762	Otu12763	Otu12764		
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI013	0	0	3.195807e-05	0	0.000000e+00	0	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI034	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0	
##	Otu12765	Otu12766	Otu12767	Otu12768	Otu12769	Otu12770	Otu12771	

##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12772	Otu12773	Otu12774	Otu12775	Otu12776	Otu12777	Otu12778
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	1.959286e-05	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu12779	Otu12780	Otu12781	Otu12782	Otu12783	Otu12784	Otu12785
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12786	Otu12787	Otu12788	Otu12789	Otu12790	Otu12791	Otu12792
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12793	Otu12794	Otu12795	Otu12796	Otu12797	Otu12798	Otu12799
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12800	Otu12801	Otu12802	Otu12803	Otu12804	Otu12805	Otu12806
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	6.530186e-05	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		Otu12807	Otu12808	Otu12809	Otu12810	Otu12811	Otu12812	Otu12813
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0

##	CSI066	0	0	0	0	0	0	0
##		0tu12814	0tu12815	0tu12816	0tu12817	0tu12818	0tu12819	0tu12820
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##		0tu12821	0tu12822	0tu12823	0tu12824	0tu12825	0tu12826	0tu12827
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12828	0tu12829	0tu12830	0tu12831	0tu12832	0tu12833	
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI013	0	0	3.195807e-05	0	0.000000e+00	0	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI034	0	0	0.000000e+00	0	3.789817e-05	0	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0	
##		0tu12834	0tu12835	0tu12836	0tu12837	0tu12838	0tu12839	0tu12840
##	CSI002	0	0.000000e+00	0	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0	0
##		0tu12841	0tu12842	0tu12843	0tu12844	0tu12845	0tu12846	0tu12847
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12848	0tu12849	0tu12850	0tu12851	0tu12852	0tu12853	0tu12854
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12855	0tu12856	0tu12857	0tu12858	0tu12859	0tu12860	
##	CSI002	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI013	6.391614e-05	0.000000e+00	0	0	0	0	
##	CSI023	0.000000e+00	0.000000e+00	0	0	0	0	
##	CSI034	0.000000e+00	0.000000e+00	0	0	0	0	

##	CSI045	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI056	0.000000e+00	0.000000e+00	0	0	0	0
##	CSI066	0.000000e+00	0.000000e+00	0	0	0	0
##		Otu12861	Otu12862	Otu12863	Otu12864	Otu12865	Otu12866 Otu12867
##	CSI002	0	0	0	0	0	0.000000e+00 0
##	CSI013	0	0	0	0	0	0.000000e+00 0
##	CSI023	0	0	0	0	0	0.000000e+00 0
##	CSI034	0	0	0	0	0	3.789817e-05 0
##	CSI045	0	0	0	0	0	0.000000e+00 0
##	CSI056	0	0	0	0	0	0.000000e+00 0
##	CSI066	0	0	0	0	0	0.000000e+00 0
##		Otu12868	Otu12869	Otu12870	Otu12871	Otu12872	Otu12873 Otu12874
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		Otu12875	Otu12876	Otu12877	Otu12878	Otu12879	Otu12880 Otu12881
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0
##	CSI023	0	0	0	0	0	0 0
##	CSI034	0	0	0	0	0	0 0
##	CSI045	0	0	0	0	0	0 0
##	CSI056	0	0	0	0	0	0 0
##	CSI066	0	0	0	0	0	0 0
##		Otu12882	Otu12883	Otu12884	Otu12885	Otu12886	Otu12887 Otu12888
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0
##	CSI023	0	0	0	0	0	0 0
##	CSI034	0	0	0	0	0	0 0
##	CSI045	0	0	0	0	0	0 0
##	CSI056	0	0	0	0	0	0 0
##	CSI066	0	0	0	0	0	0 0
##		Otu12889	Otu12890	Otu12891	Otu12892	Otu12893	Otu12894 Otu12895
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0
##	CSI023	0	0	0	0	0	0 0
##	CSI034	0	0	0	0	0	0 0
##	CSI045	0	0	0	0	0	0 0
##	CSI056	0	0	0	0	0	0 0
##	CSI066	0	0	0	0	0	0 0
##		Otu12896	Otu12897	Otu12898	Otu12899	Otu12900	Otu12901 Otu12902
##	CSI002	0	0	0.000000e+00	0	0	0 0
##	CSI013	0	0	0.000000e+00	0	0	0 0
##	CSI023	0	0	0.000000e+00	0	0	0 0
##	CSI034	0	0	1.894908e-05	0	0	0 0
##	CSI045	0	0	0.000000e+00	0	0	0 0
##	CSI056	0	0	0.000000e+00	0	0	0 0
##	CSI066	0	0	0.000000e+00	0	0	0 0
##		Otu12903	Otu12904	Otu12905	Otu12906	Otu12907	Otu12908 Otu12909
##	CSI002	0	0	0	0	0	0 0
##	CSI013	0	0	0	0	0	0 0



##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12910	Otu12911	Otu12912	Otu12913	Otu12914	Otu12915	Otu12916
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	6.391614e-05	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	0.000000e+00	0
##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		Otu12917	Otu12918	Otu12919	Otu12920	Otu12921	Otu12922	Otu12923
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12924	Otu12925	Otu12926	Otu12927	Otu12928	Otu12929	Otu12930
##	CSI002	0	0	0	0	1.362194e-05	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu12931	Otu12932	Otu12933	Otu12934	Otu12935	Otu12936	Otu12937
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12938	Otu12939	Otu12940	Otu12941	Otu12942	Otu12943	Otu12944
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12945	Otu12946	Otu12947	Otu12948	Otu12949	Otu12950	Otu12951
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu12952	Otu12953	Otu12954	Otu12955	Otu12956	Otu12957	Otu12958

##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12959	0tu12960	0tu12961	0tu12962	0tu12963	0tu12964	
##	CSI002	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI013	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI023	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI034	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI045	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI056	0	1.959286e-05	0	0	0	0.000000e+00	
##	CSI066	0	0.000000e+00	0	0	0	0.000000e+00	
##		0tu12965	0tu12966	0tu12967	0tu12968	0tu12969	0tu12970	0tu12971
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12972	0tu12973	0tu12974	0tu12975	0tu12976	0tu12977	0tu12978
##	CSI002	1.362194e-05	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##		0tu12979	0tu12980	0tu12981	0tu12982	0tu12983	0tu12984	0tu12985
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12986	0tu12987	0tu12988	0tu12989	0tu12990	0tu12991	0tu12992
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu12993	0tu12994	0tu12995	0tu12996	0tu12997	0tu12998	
##	CSI002	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI013	0	0	0.000000e+00	0	6.391614e-05	0	
##	CSI023	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI034	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI045	0	0	0.000000e+00	0	0.000000e+00	0	
##	CSI056	0	0	0.000000e+00	0	0.000000e+00	0	

##	CSI066	0	0	0.000000e+00	0	0.000000e+00	0
##		0tu12999	0tu13000	0tu13001	0tu13002	0tu13003	0tu13004
##	CSI002	0	0	1.362194e-05	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0
##		0tu13006	0tu13007	0tu13008	0tu13009	0tu13010	0tu13011
##	CSI002	0.000000e+00	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0
##	CSI034	0.000000e+00	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0
##	CSI056	3.918572e-05	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0
##		0tu13013	0tu13014	0tu13015	0tu13016	0tu13017	0tu13018
##	CSI002	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0
##		0tu13020	0tu13021	0tu13022	0tu13023	0tu13024	0tu13025
##	CSI002	0	0.000000e+00	0	0	0	0
##	CSI013	0	0.000000e+00	0	0	0	0
##	CSI023	0	0.000000e+00	0	0	0	0
##	CSI034	0	0.000000e+00	0	0	0	0
##	CSI045	0	0.000000e+00	0	0	0	0
##	CSI056	0	0.000000e+00	0	0	0	0
##	CSI066	0	0.000000e+00	0	0	0	0
##		0tu13027	0tu13028	0tu13029	0tu13030	0tu13031	0tu13032
##	CSI002	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	3.195807e-05	0	0
##	CSI023	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0.000000e+00	0	0
##		0tu13034	0tu13035	0tu13036	0tu13037	0tu13038	0tu13039
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0.000000e+00
##		0tu13041	0tu13042	0tu13043	0tu13044	0tu13045	0tu13046
##	CSI002	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	1.894908e-05

##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##	Otu13048	Otu13049	Otu13050	Otu13051	Otu13052	Otu13053		
##	CSI002	0	0.000000e+00	2.724387e-05	0	0	0	
##	CSI013	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI023	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI034	0	3.789817e-05	0.000000e+00	0	0	0	
##	CSI045	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI056	0	0.000000e+00	0.000000e+00	0	0	0	
##	CSI066	0	0.000000e+00	0.000000e+00	0	0	0	
##	Otu13054	Otu13055	Otu13056	Otu13057	Otu13058	Otu13059	Otu13060	
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	3.833694e-05	0	0	0	0
##	Otu13061	Otu13062	Otu13063	Otu13064	Otu13065	Otu13066	Otu13067	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu13068	Otu13069	Otu13070	Otu13071	Otu13072	Otu13073	Otu13074	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu13075	Otu13076	Otu13077	Otu13078	Otu13079	Otu13080	Otu13081	
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	3.195807e-05	0	0	0	0	0	0
##	CSI023	0.000000e+00	0	0	0	0	0	0
##	CSI034	1.894908e-05	0	0	0	0	0	0
##	CSI045	0.000000e+00	0	0	0	0	0	0
##	CSI056	0.000000e+00	0	0	0	0	0	0
##	CSI066	0.000000e+00	0	0	0	0	0	0
##	Otu13082	Otu13083	Otu13084	Otu13085	Otu13086	Otu13087	Otu13088	
##	CSI002	0	0	0	0.000000e+00	0	0	0
##	CSI013	0	0	0	0.000000e+00	0	0	0
##	CSI023	0	0	0	0.000000e+00	0	0	0
##	CSI034	0	0	0	0.000000e+00	0	0	0
##	CSI045	0	0	0	0.000000e+00	0	0	0
##	CSI056	0	0	0	0.000000e+00	0	0	0
##	CSI066	0	0	0	0.000000e+00	0	0	0
##	Otu13089	Otu13090	Otu13091	Otu13092	Otu13093	Otu13094	Otu13095	
##	CSI002	0.000000e+00	0	0	0	0	0	0
##	CSI013	0.000000e+00	0	0	0	0	0	0

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## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 3.918572e-05      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu13096 0tu13097 0tu13098 0tu13099 0tu13100 0tu13101      0tu13102
## CSI002      0      0      0      0      0      0 0.000000e+00
## CSI013      0      0      0      0      0      0 0.000000e+00
## CSI023      0      0      0      0      0      0 0.000000e+00
## CSI034      0      0      0      0      0      0 0.000000e+00
## CSI045      0      0      0      0      0      0 0.000000e+00
## CSI056      0      0      0      0      0      0 1.959286e-05
## CSI066      0      0      0      0      0      0 0.000000e+00
##      0tu13103 0tu13104 0tu13105 0tu13106 0tu13107 0tu13108      0tu13109
## CSI002      0      0      0      0      0      0 0.000000e+00
## CSI013      0      0      0      0      0      0 6.391614e-05
## CSI023      0      0      0      0      0      0 0.000000e+00
## CSI034      0      0      0      0      0      0 0.000000e+00
## CSI045      0      0      0      0      0      0 0.000000e+00
## CSI056      0      0      0      0      0      0 0.000000e+00
## CSI066      0      0      0      0      0      0 0.000000e+00
##      0tu13110 0tu13111 0tu13112 0tu13113 0tu13114 0tu13115 0tu13116
## CSI002 0.000000e+00      0      0      0      0      0      0
## CSI013 3.195807e-05      0      0      0      0      0      0
## CSI023 0.000000e+00      0      0      0      0      0      0
## CSI034 0.000000e+00      0      0      0      0      0      0
## CSI045 0.000000e+00      0      0      0      0      0      0
## CSI056 0.000000e+00      0      0      0      0      0      0
## CSI066 0.000000e+00      0      0      0      0      0      0
##      0tu13117 0tu13118 0tu13119 0tu13120 0tu13121 0tu13122 0tu13123
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu13124 0tu13125 0tu13126 0tu13127      0tu13128 0tu13129 0tu13130
## CSI002      0      0      0      0 0.000000e+00      0      0
## CSI013      0      0      0      0 0.000000e+00      0      0
## CSI023      0      0      0      0 0.000000e+00      0      0
## CSI034      0      0      0      0 1.894908e-05      0      0
## CSI045      0      0      0      0 0.000000e+00      0      0
## CSI056      0      0      0      0 0.000000e+00      0      0
## CSI066      0      0      0      0 0.000000e+00      0      0
##      0tu13131 0tu13132 0tu13133 0tu13134 0tu13135 0tu13136 0tu13137
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu13138 0tu13139      0tu13140 0tu13141 0tu13142 0tu13143 0tu13144

```

##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	3.789817e-05	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		Otu13145	Otu13146	Otu13147	Otu13148	Otu13149	Otu13150	Otu13151
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu13152	Otu13153	Otu13154	Otu13155	Otu13156	Otu13157	Otu13158
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu13159	Otu13160	Otu13161	Otu13162	Otu13163	Otu13164	Otu13165
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu13166	Otu13167	Otu13168	Otu13169	Otu13170	Otu13171	Otu13172
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	6.391614e-05
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		Otu13173	Otu13174	Otu13175	Otu13176	Otu13177	Otu13178	
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI034	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI045	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI056	1.959286e-05	0	0	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0	
##		Otu13179	Otu13180	Otu13181	Otu13182	Otu13183	Otu13184	Otu13185
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	6.391614e-05	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0

##	CSI066	0	0	0	0	0.000000e+00	0	0
##		0tu13186	0tu13187	0tu13188	0tu13189	0tu13190	0tu13191	
##	CSI002	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI013	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI023	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI034	0.000000e+00	0	0	0	1.894908e-05	0	
##	CSI045	6.530186e-05	0	0	0	0.000000e+00	0	
##	CSI056	0.000000e+00	0	0	0	0.000000e+00	0	
##	CSI066	0.000000e+00	0	0	0	0.000000e+00	0	
##		0tu13192	0tu13193	0tu13194	0tu13195	0tu13196	0tu13197	0tu13198
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu13199	0tu13200	0tu13201	0tu13202	0tu13203	0tu13204	0tu13205
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu13206	0tu13207	0tu13208	0tu13209	0tu13210	0tu13211	0tu13212
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		0tu13213	0tu13214	0tu13215	0tu13216	0tu13217	0tu13218	0tu13219
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	3.833694e-05	0	0
##		0tu13220	0tu13221	0tu13222	0tu13223	0tu13224	0tu13225	0tu13226
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	6.391614e-05	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##		0tu13227	0tu13228	0tu13229	0tu13230	0tu13231	0tu13232	0tu13233
##	CSI002	0	0	0	0	0	0.000000e+00	0
##	CSI013	0	0	0	0	0	0.000000e+00	0
##	CSI023	0	0	0	0	0	0.000000e+00	0
##	CSI034	0	0	0	0	0	3.789817e-05	0

##	CSI045	0	0	0	0	0	0.000000e+00	0
##	CSI056	0	0	0	0	0	0.000000e+00	0
##	CSI066	0	0	0	0	0	0.000000e+00	0
##		Otu13234	Otu13235	Otu13236	Otu13237	Otu13238	Otu13239	Otu13240
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		Otu13241	Otu13242	Otu13243	Otu13244	Otu13245	Otu13246	Otu13247
##	CSI002	0	0	0	0	0.000000e+00	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	3.918572e-05	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu13248	Otu13249	Otu13250	Otu13251	Otu13252	Otu13253	Otu13254
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu13255	Otu13256	Otu13257	Otu13258	Otu13259	Otu13260	Otu13261
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu13262	Otu13263	Otu13264	Otu13265	Otu13266	Otu13267	Otu13268
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu13269	Otu13270	Otu13271	Otu13272	Otu13273	Otu13274	
##	CSI002	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI013	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI023	0	0	0	0.000000e+00	0	4.082049e-05	
##	CSI034	0	0	0	3.789817e-05	0	0.000000e+00	
##	CSI045	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI056	0	0	0	0.000000e+00	0	0.000000e+00	
##	CSI066	0	0	0	0.000000e+00	0	0.000000e+00	
##		Otu13275	Otu13276	Otu13277	Otu13278	Otu13279	Otu13280	Otu13281
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0



##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu13282	Otu13283	Otu13284	Otu13285	Otu13286	Otu13287	Otu13288	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu13289	Otu13290	Otu13291	Otu13292	Otu13293	Otu13294	Otu13295	
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	3.789817e-05	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0
##	CSI066	0	0	0.000000e+00	0	0	0	0
##	Otu13296	Otu13297	Otu13298	Otu13299	Otu13300	Otu13301	Otu13302	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu13303	Otu13304	Otu13305	Otu13306	Otu13307	Otu13308	Otu13309	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu13310	Otu13311	Otu13312	Otu13313	Otu13314	Otu13315	Otu13316	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu13317	Otu13318	Otu13319	Otu13320	Otu13321	Otu13322	Otu13323	
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##	Otu13324	Otu13325	Otu13326	Otu13327	Otu13328	Otu13329	Otu13330	

##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	1.894908e-05
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		Otu13331	Otu13332	Otu13333	Otu13334	Otu13335	Otu13336	Otu13337
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu13338	Otu13339	Otu13340	Otu13341	Otu13342	Otu13343	
##	CSI002	0	1.362194e-05	0	0	0	1.362194e-05	
##	CSI013	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI023	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI034	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI045	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI056	0	0.000000e+00	0	0	0	0.000000e+00	
##	CSI066	0	0.000000e+00	0	0	0	0.000000e+00	
##		Otu13344	Otu13345	Otu13346	Otu13347	Otu13348	Otu13349	Otu13350
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu13351	Otu13352	Otu13353	Otu13354	Otu13355	Otu13356	
##	CSI002	0	0	0	0.000000e+00	1.362194e-05	0	
##	CSI013	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI023	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI034	0	0	0	1.894908e-05	0.000000e+00	0	
##	CSI045	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI056	0	0	0	0.000000e+00	0.000000e+00	0	
##	CSI066	0	0	0	0.000000e+00	0.000000e+00	0	
##		Otu13357	Otu13358	Otu13359	Otu13360	Otu13361	Otu13362	Otu13363
##	CSI002	0	0	0	0	1.362194e-05	0	0
##	CSI013	0	0	0	0	0.000000e+00	0	0
##	CSI023	0	0	0	0	0.000000e+00	0	0
##	CSI034	0	0	0	0	0.000000e+00	0	0
##	CSI045	0	0	0	0	0.000000e+00	0	0
##	CSI056	0	0	0	0	0.000000e+00	0	0
##	CSI066	0	0	0	0	0.000000e+00	0	0
##		Otu13364	Otu13365	Otu13366	Otu13367	Otu13368	Otu13369	Otu13370
##	CSI002	0	0	0.000000e+00	0	0	0	0
##	CSI013	0	0	0.000000e+00	0	0	0	0
##	CSI023	0	0	0.000000e+00	0	0	0	0
##	CSI034	0	0	0.000000e+00	0	0	0	0
##	CSI045	0	0	0.000000e+00	0	0	0	0
##	CSI056	0	0	0.000000e+00	0	0	0	0

##	CSI066	0	0	0.000000e+00	0	0	0	0
##		Otu13371	Otu13372	Otu13373	Otu13374	Otu13375	Otu13376	Otu13377
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu13378	Otu13379	Otu13380	Otu13381	Otu13382	Otu13383	Otu13384
##	CSI002	0	0	0	0	0	0	0.000000e+00
##	CSI013	0	0	0	0	0	0	0.000000e+00
##	CSI023	0	0	0	0	0	0	0.000000e+00
##	CSI034	0	0	0	0	0	0	0.000000e+00
##	CSI045	0	0	0	0	0	0	0.000000e+00
##	CSI056	0	0	0	0	0	0	0.000000e+00
##	CSI066	0	0	0	0	0	0	0.000000e+00
##		Otu13385	Otu13386	Otu13387	Otu13388	Otu13389	Otu13390	Otu13391
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu13392	Otu13393	Otu13394	Otu13395	Otu13396	Otu13397	Otu13398
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu13399	Otu13400	Otu13401	Otu13402	Otu13403	Otu13404	Otu13405
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu13406	Otu13407	Otu13408	Otu13409	Otu13410	Otu13411	Otu13412
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0
##	CSI045	0	0	0	0	0	0	0
##	CSI056	0	0	0	0	0	0	0
##	CSI066	0	0	0	0	0	0	0
##		Otu13413	Otu13414	Otu13415	Otu13416	Otu13417	Otu13418	Otu13419
##	CSI002	0	0	0	0	0	0	0
##	CSI013	0	0	0	0	0	0	0
##	CSI023	0	0	0	0	0	0	0
##	CSI034	0	0	0	0	0	0	0

```

## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu13420 0tu13421 0tu13422 0tu13423 0tu13424 0tu13425 0tu13426
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu13427 0tu13428 0tu13429 0tu13430 0tu13431 0tu13432 0tu13433
## CSI002      0      0      0      0      0      0      0
## CSI013      0      0      0      0      0      0      0
## CSI023      0      0      0      0      0      0      0
## CSI034      0      0      0      0      0      0      0
## CSI045      0      0      0      0      0      0      0
## CSI056      0      0      0      0      0      0      0
## CSI066      0      0      0      0      0      0      0
##      0tu13434 0tu13435
## CSI002 0.000000e+00      0
## CSI013 0.000000e+00      0
## CSI023 4.082049e-05      0
## CSI034 0.000000e+00      0
## CSI045 0.000000e+00      0
## CSI056 0.000000e+00      0
## CSI066 0.000000e+00      0
## [ reached getOption("max.print") -- omitted 5 rows ]

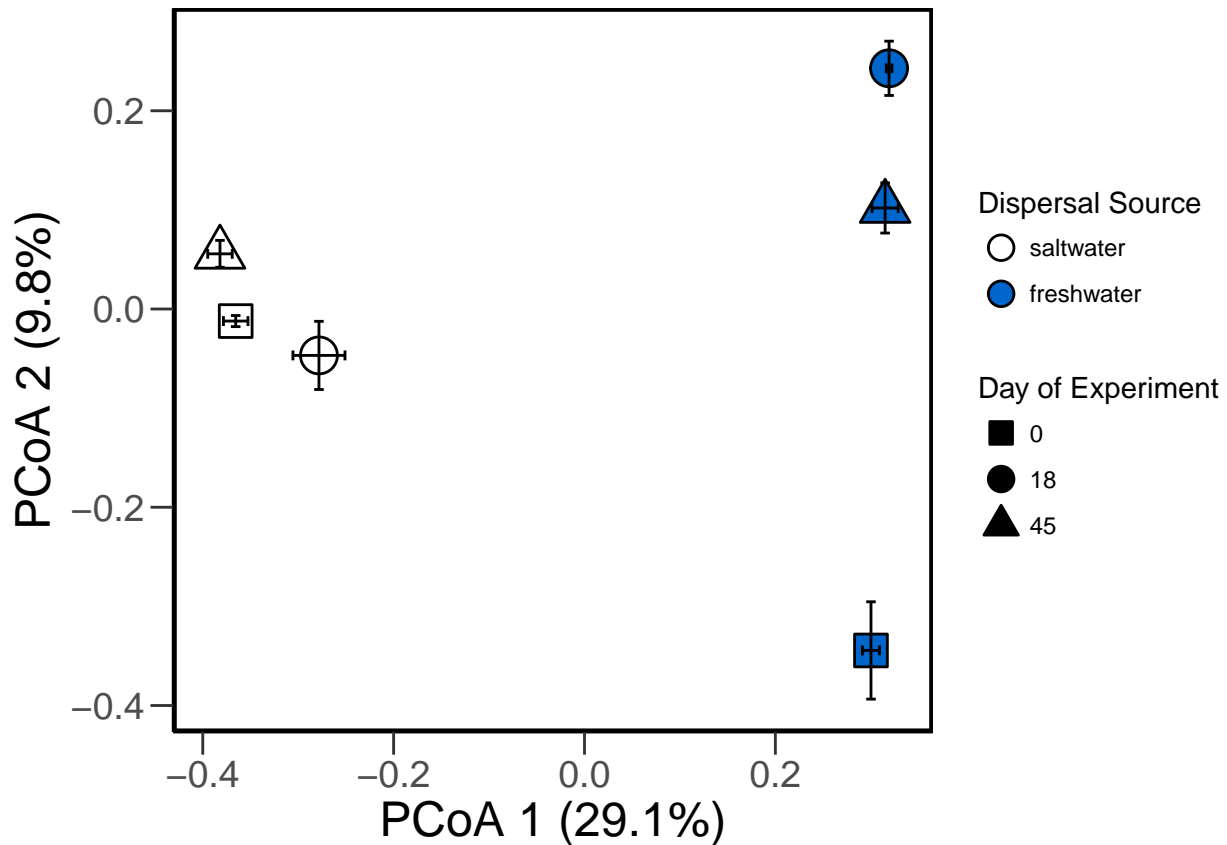
##
## Call:
## adonis(formula = csi.relabun.full2[, -c(1:8)] ~ Date * Dispersal *      Salinity, data = csi.relabun
##
## Permutation: free
## Number of permutations: 1000
##
## Terms added sequentially (first to last)
##
##              Df SumsOfSqs MeanSqs F.Model      R2    Pr(>F)
## Date           2    1.1325  0.56623   2.4905 0.13309 0.002997 **
## Dispersal       1    2.4421  2.44205  10.7410 0.28701 0.000999 ***
## Date:Dispersal  2    1.0691  0.53455   2.3512 0.12565 0.006993 **
## Residuals      17    3.8651  0.22736          0.45425
## Total          22    8.5087          1.00000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

## [1] 29.1
## [1] 9.8

```

PCoA plot sources only

PLOT GGPLOT sources only



```
## Saving 6.5 x 4.5 in image
```

PCoA set up WITH source tanks

PCoA plot design WITH SOURCE TANKS - by date x dispersal type

PLOT GGPLOT WITH SOURCE TANKS + treatment tanks date x dispersal type

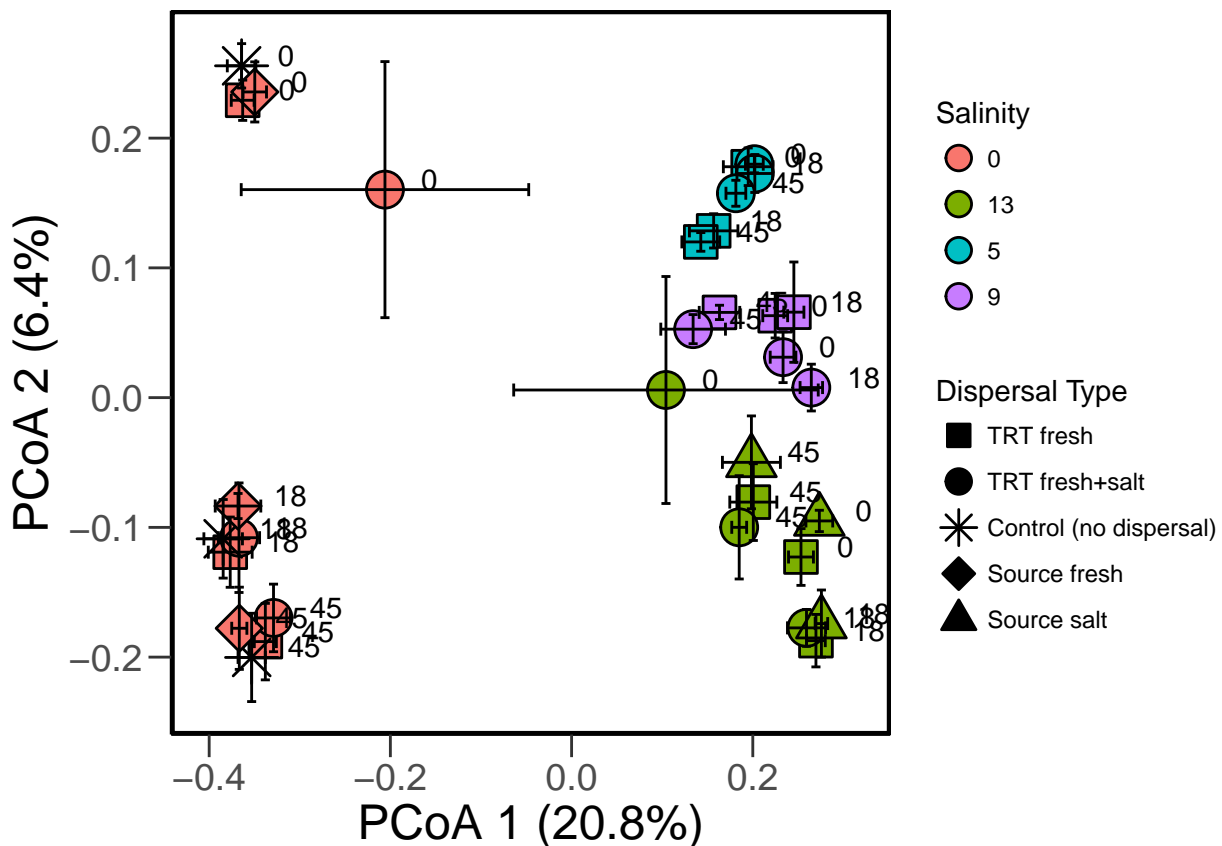
PCoA set up WITH source tanks All data - need to get Day to be labeled on symbol

```
##  
## Call:  
## adonis(formula = csi.relabun.full[, -c(1:8)] ~ Date * Dispersal * Salinity, data = csi.relabun..
```

```
##
## Permutation: free
## Number of permutations: 1000
##
## Terms added sequentially (first to last)
##
##           Df SumsOfSqs MeanSqs F.Model      R2    Pr(>F)
## Date           2      3.474  1.7372  5.9927 0.07170 0.000999 ***
## Dispersal       4      5.441  1.3602  4.6924 0.11228 0.000999 ***
## Salinity        1      3.891  3.8908 13.4217 0.08029 0.000999 ***
## Date:Dispersal   8      2.905  0.3631  1.2527 0.05995 0.033966 *
## Date:Salinity    2      1.545  0.7723  2.6643 0.03188 0.000999 ***
## Dispersal:Salinity 1      0.299  0.2992  1.0320 0.00617 0.351648
## Date:Dispersal:Salinity 2      0.466  0.2331  0.8041 0.00962 0.838162
## Residuals      105     30.438  0.2899           0.62811
## Total          125     48.459           1.00000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## [1] 20.8
## [1] 6.4
```

PCoA plot design WITH SOURCE TANKS All data - need to get Day to be labeled on symbol

PLOT GGPLOT WITH SOURCE TANKS All data - need to get Day to be labeled on symbol #unsure how to overlay DATE on points



## Saving 6.5 x 4.5 in image

## Indicator Species Analysis

- (5) Which bacterial taxa are driving bacterial community patterns in response to salinity only? Subset data (run without source tanks) Bray-Curtis dissimilarity matrix for bacterial community Run Species Indicator Analysis - see IL\_Wetlands.Rmd file Create Table for Supplemental (includes all taxa and associated taxon contribution to bacterial response) Create subset in table format to highlight top 5-10 OTUs (with names) for each salinity tank type (or by whatever groupings seem interesting) - See AP's IL Wetlands paper
- (6) Is there a relationship between community composition and litter decomposition rates? (Date2=45 only) Subset data - source tanks only Euclidean distance for leaf litter decomposition Bray-Curtis dissimilarity matrix for bacterial community Run matrix comparison using Mantel test

Subset data - experimental (all data but source) tanks Euclidean distance for leaf litter decomposition Bray-Curtis dissimilarity matrix for bacterial community Run matrix comparison using Mantel test

Run Redundancy Analysis to include litter decomp AND C min Model: bacterial community~litter decomp1+decomp2+decomp3+Cmin

*#Is there a relationship between bacterial community composition and decomposition rate? used matrix comp*  
`str(csi.full.ns.Cmin)`

```
## 'data.frame': 31 obs. of 13451 variables:
## $ Field_ID : int 224 225 226 227 228 229 230 231 235 236 ...
## $ Date : Factor w/ 3 levels "6/11/15","6/29/15",...: 3 3 3 3 3 3 3 3 3 3 ...
## $ Date2 : int 45 45 45 45 45 45 45 45 45 45 ...
## $ Replicate : Factor w/ 4 levels "A","B","C","D": 1 1 1 1 1 1 1 2 2 ...
## $ Treatment : int 4 5 6 7 8 9 10 11 4 5 ...
## $ Dispersal : int 3 2 3 2 3 2 3 2 3 2 ...
## $ Salinity : int 0 5 5 9 9 13 13 0 0 5 ...
## $ Salinity_real : num 0.53 4.33 4.51 7.77 8.54 ...
## $ NH4um : num 1.09 1.77 1.59 1.73 1.41 1.04 1.18 1.14 1.24 1.27 ...
## $ NO3um : num 0 0 0 0 0.54 0 0 0 0 0 ...
## $ PO4um : num 0 0 0 0 0 0 0.08 0.11 0 0 ...
## $ Maple_dmass : num 2.66 2.19 2.04 1.28 1.39 1.07 2.23 2.52 1.7 1.85 ...
## $ Spartina_dmass: num 2.7 1.56 1.82 1.14 0.47 0.83 1.66 1.85 1.75 1.93 ...
## $ Phrag_dmass : num 8.25 5.03 5.01 5.2 4.01 0.79 5.48 5.2 5.17 6.52 ...
## $ Cmin : num 46.7 15.1 55 155.2 0 ...
## $ Sample.. : Factor w/ 31 levels "A_10_11JUN15",...: 3 4 5 6 7 8 1 2 11 12 ...
## $ Otu00001 : num 0.000155 0.003197 0.041096 0.044183 0.001123 ...
## $ Otu00002 : num 5.56e-03 2.76e-05 9.58e-05 0.00 1.84e-05 ...
## $ Otu00003 : num 4.43e-05 8.91e-02 1.31e-02 1.99e-02 5.52e-05 ...
## $ Otu00004 : num 2.22e-05 0.00 1.12e-01 3.36e-02 3.68e-05 ...
## $ Otu00005 : num 0 0.0597 0.0484 0.1208 0.0148 ...
## $ Otu00006 : num 0.0002 0.0051 0.00752 0.02378 0.03237 ...
## $ Otu00007 : num 9.12e-02 8.27e-05 0.00 8.57e-04 0.00 ...
## $ Otu00008 : num 6.02e-02 5.51e-05 2.40e-05 0.00 1.84e-05 ...
## $ Otu00009 : num 9.02e-03 8.27e-05 4.55e-04 4.10e-02 1.10e-04 ...
## $ Otu00010 : num 8.87e-05 0.00 0.00 0.00 0.00 ...
## $ Otu00011 : num 0.00 2.32e-03 2.28e-03 1.12e-02 5.52e-05 ...
## $ Otu00012 : num 2.22e-05 3.05e-02 1.75e-03 5.70e-03 1.11e-02 ...
## $ Otu00013 : num 1.71e-02 2.76e-05 0.00 2.14e-05 5.52e-05 ...
## $ Otu00014 : num 2.22e-05 0.00 4.74e-03 4.29e-05 0.00 ...
## $ Otu00015 : num 0.00 5.36e-02 5.66e-02 4.42e-02 7.37e-05 ...
## $ Otu00016 : num 0.00 2.76e-05 0.00 8.57e-05 4.31e-01 ...
## $ Otu00017 : num 6.07e-03 2.76e-05 0.00 0.00 0.00 ...
## $ Otu00018 : num 4.43e-05 5.51e-05 0.00 2.14e-04 1.84e-05 ...
## $ Otu00019 : num 0.001108 0.014167 0.004984 0.013263 0.000331 ...
## $ Otu00020 : num 6.65e-05 5.51e-05 0.00 2.14e-05 5.52e-05 ...
## $ Otu00021 : num 2.22e-05 3.28e-02 1.04e-01 2.08e-01 1.84e-05 ...
## $ Otu00022 : num 0 0.000441 0.000455 0.017377 0.000608 ...
## $ Otu00023 : num 2.22e-05 3.03e-04 1.27e-03 8.57e-05 3.68e-05 ...
## $ Otu00024 : num 1.11e-04 0.00 8.22e-02 1.11e-02 1.84e-05 ...
## $ Otu00025 : num 0.00 9.12e-03 3.86e-03 4.29e-05 1.84e-05 ...
## $ Otu00026 : num 1.33e-04 0.00 4.42e-02 2.94e-02 1.84e-05 ...
## $ Otu00027 : num 0.00 1.93e-04 6.71e-03 2.14e-04 7.37e-05 ...
## $ Otu00028 : num 6.65e-05 9.54e-03 2.01e-03 8.79e-04 5.52e-05 ...
## $ Otu00029 : num 0 0.026046 0 0.000107 0.000166 ...
## $ Otu00030 : num 1.77e-04 0.00 4.79e-05 2.14e-05 0.00 ...
## $ Otu00031 : num 0.00288 0 0 0 0 ...
## $ Otu00032 : num 2.22e-05 0.00 0.00 0.00 0.00 ...
```



```

## $ 0tu00033 : num 0.00 0.00 0.00 2.14e-05 1.84e-05 ...
## $ 0tu00034 : num 0 0 0 0.00171 0 ...
## $ 0tu00035 : num 2.22e-05 0.00 0.00 4.29e-05 0.00 ...
## $ 0tu00036 : num 2.22e-05 0.00 0.00 0.00 0.00 ...
## $ 0tu00037 : num 0 0 0 0 0 ...
## $ 0tu00038 : num 0 0 0.01924 0.00609 0 ...
## $ 0tu00039 : num 0.00 0.00 0.00 2.14e-05 0.00 ...
## $ 0tu00040 : num 0.006118 0.010501 0.028419 0.000836 0.001197 ...
## $ 0tu00041 : num 2.22e-05 1.38e-04 7.19e-05 6.43e-04 0.00 ...
## $ 0tu00042 : num 5.32e-03 1.10e-04 7.19e-04 2.14e-05 0.00 ...
## $ 0tu00043 : num 2.00e-04 2.15e-03 2.16e-04 2.14e-05 7.00e-04 ...
## $ 0tu00044 : num 0.00 3.14e-02 4.79e-05 1.84e-03 0.00 ...
## $ 0tu00045 : num 0.00 0.00 4.79e-05 0.00 0.00 ...
## $ 0tu00046 : num 0.00 0.00 0.00 1.86e-02 1.84e-05 ...
## $ 0tu00047 : num 0.00 2.76e-05 1.15e-02 4.63e-02 0.00 ...
## $ 0tu00048 : num 0.00 2.76e-05 0.00 0.00 0.00 ...
## $ 0tu00049 : num 0.0014 0 0 0 0 ...
## $ 0tu00050 : num 0.000842 0.000882 0.00012 0.000107 0.000129 ...
## $ 0tu00051 : num 2.22e-05 0.00 0.00 0.00 0.00 ...
## $ 0tu00052 : num 0.000133 0 0 0 0 ...
## $ 0tu00053 : num 0 0.000551 0.000312 0.000129 0.017181 ...
## $ 0tu00054 : num 2.44e-04 2.76e-05 7.19e-05 2.14e-05 7.37e-05 ...
## $ 0tu00055 : num 0.00 1.57e-03 2.68e-03 6.21e-04 3.68e-05 ...
## $ 0tu00056 : num 4.43e-05 1.38e-04 0.00 0.00 0.00 ...
## $ 0tu00057 : num 0.00 2.16e-02 7.31e-03 8.57e-05 1.10e-04 ...
## $ 0tu00058 : num 0.00 2.76e-05 4.79e-05 3.70e-02 1.84e-05 ...
## $ 0tu00059 : num 8.87e-04 4.71e-03 7.00e-03 2.14e-05 0.00 ...
## $ 0tu00060 : num 0.000155 0 0 0 0 ...
## $ 0tu00061 : num 0.0136 0 0 0 0 ...
## $ 0tu00062 : num 0 0 0 0 0 0 0 0 0 ...
## $ 0tu00063 : num 0 0.000193 0 0 0 ...
## $ 0tu00064 : num 0.00 5.51e-05 1.41e-03 8.36e-04 4.79e-04 ...
## $ 0tu00065 : num 0 0 0.00556 0 0 ...
## $ 0tu00066 : num 0.000244 0.017695 0.003546 0.007028 0 ...
## $ 0tu00067 : num 0.00 0.00 0.00 8.57e-05 5.52e-05 ...
## $ 0tu00068 : num 0 0 0 0 0.000368 ...
## $ 0tu00069 : num 6.94e-02 2.76e-05 0.00 2.14e-05 0.00 ...
## $ 0tu00070 : num 0.000421 0 0 0 0 ...
## $ 0tu00071 : num 8.87e-05 4.91e-03 5.75e-04 6.43e-05 6.91e-03 ...
## $ 0tu00072 : num 0 0.001351 0.001078 0.000236 0.009428 ...
## $ 0tu00073 : num 0 0.000193 0.002396 0.000321 0.000921 ...
## $ 0tu00074 : num 0 0 0 0 0 ...
## $ 0tu00075 : num 0 0 0 0 0 ...
## $ 0tu00076 : num 2.22e-05 0.00 0.00 0.00 0.00 ...
## $ 0tu00077 : num 4.43e-05 1.77e-02 4.96e-03 3.00e-04 3.68e-05 ...
## $ 0tu00078 : num 0 0.00011 0.000719 0.000214 0.128241 ...
## $ 0tu00079 : num 0.108 0 0 0 0 ...
## $ 0tu00080 : num 0 0.027755 0.002612 0.000214 0.000276 ...
## $ 0tu00081 : num 0 0 0 0 0 ...
## $ 0tu00082 : num 8.87e-05 0.00 0.00 0.00 1.84e-05 ...
## $ 0tu00083 : num 0.00 2.76e-05 0.00 0.00 0.00 ...
## [list output truncated]

```

```

df.bcc <- csi.full.ns.Cmin[,c(1:16)] #bacteria
df.env.bcc <- csi.full.ns.Cmin[,c(1:16)] #env
df.decomp <- csi.full.ns.Cmin[,c(12:14)] #decomp
df.decompCmin <- csi.full.ns.Cmin[,c(12:15)] #decompCmin

#bray curtis for bact comm
dist.bcc <- vegdist(df.bcc, method = "bray")
#euclidean distance for leaf litter decomp
dist.decomp <- vegdist(df.decomp, method = "euclidean")
#euclidean distance for leaf litter decomp and Cmin
dist.decompCmin <- vegdist(df.decompCmin, method = "euclidean")

#matrix comparison
mantel.rtest(dist.bcc, dist.decomp, nrepet = 999) #bacteria compared to decomp correlation r = 0.231, P = 0.005

## Monte-Carlo test
## Call: mantel.rtest(m1 = dist.bcc, m2 = dist.decomp, nrepet = 999)
##
## Observation: 0.2309126
##
## Based on 999 replicates
## Simulated p-value: 0.005
## Alternative hypothesis: greater
##
##      Std.Obs  Expectation    Variance
## 3.008104990 -0.005841034  0.006194514

mantel.rtest(dist.bcc, dist.decompCmin, nrepet = 999) #bacteria compared to decompCmin correlation r = 0.211, P = 0.007

## Monte-Carlo test
## Call: mantel.rtest(m1 = dist.bcc, m2 = dist.decompCmin, nrepet = 999)
##
## Observation: 0.2116409
##
## Based on 999 replicates
## Simulated p-value: 0.007
## Alternative hypothesis: greater
##
##      Std.Obs  Expectation    Variance
## 2.858037792 -0.001278154  0.005550002

#Redundancy Analysis
f <- df.bcc ~ Maple_dmass + Spartina_dmass + Phrag_dmass + Cmin
df.rda <- dbrda(f, data=df.env.bcc, distance="bray")
anova(df.rda, by="terms", model="direct")

## Permutation test for dbrda under direct model
## Terms added sequentially (first to last)
## Permutation: free
## Number of permutations: 999
##
## Model: dbrda(formula = df.bcc ~ Maple_dmass + Spartina_dmass + Phrag_dmass + Cmin, data = df.env.bcc)
##              Df SumOfSqs      F Pr(>F)
## Maple_dmass   1   0.8322 2.4026 0.002 **
## Spartina_dmass 1   0.6253 1.8054 0.027 *

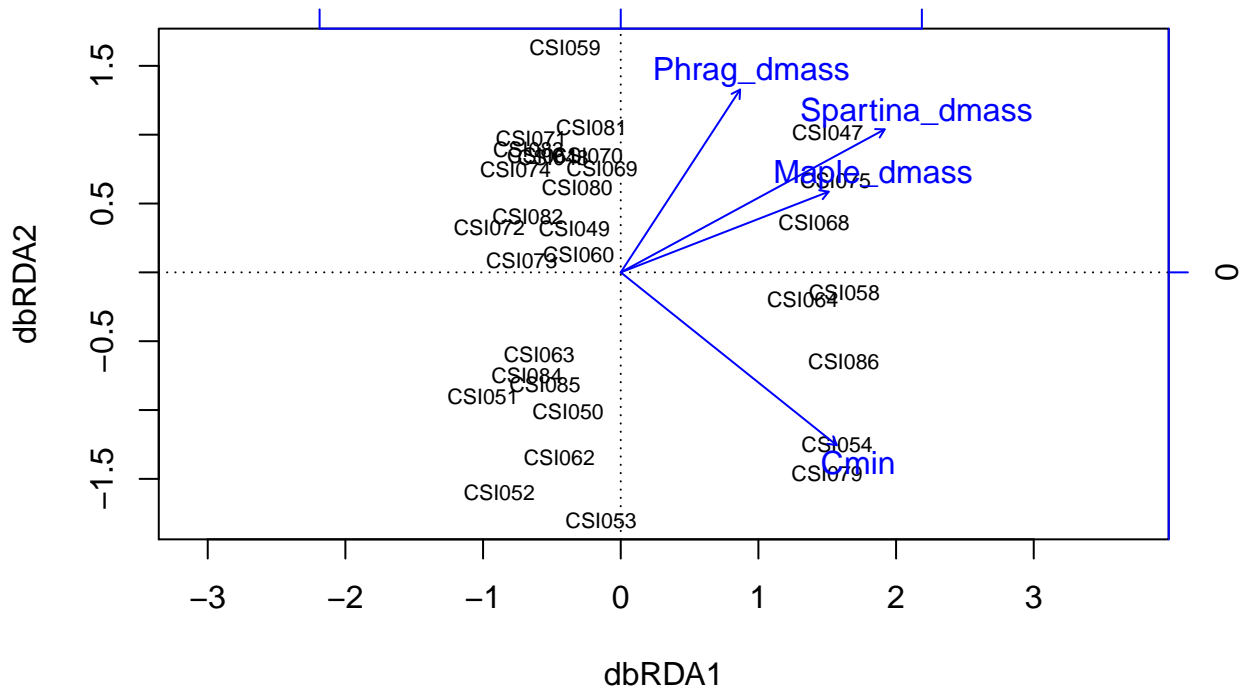
```

```
## Phrag_dmass      1    0.3183 0.9189  0.517
## Cmin             1    0.5641 1.6286  0.034 *
## Residual        26    9.0056
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

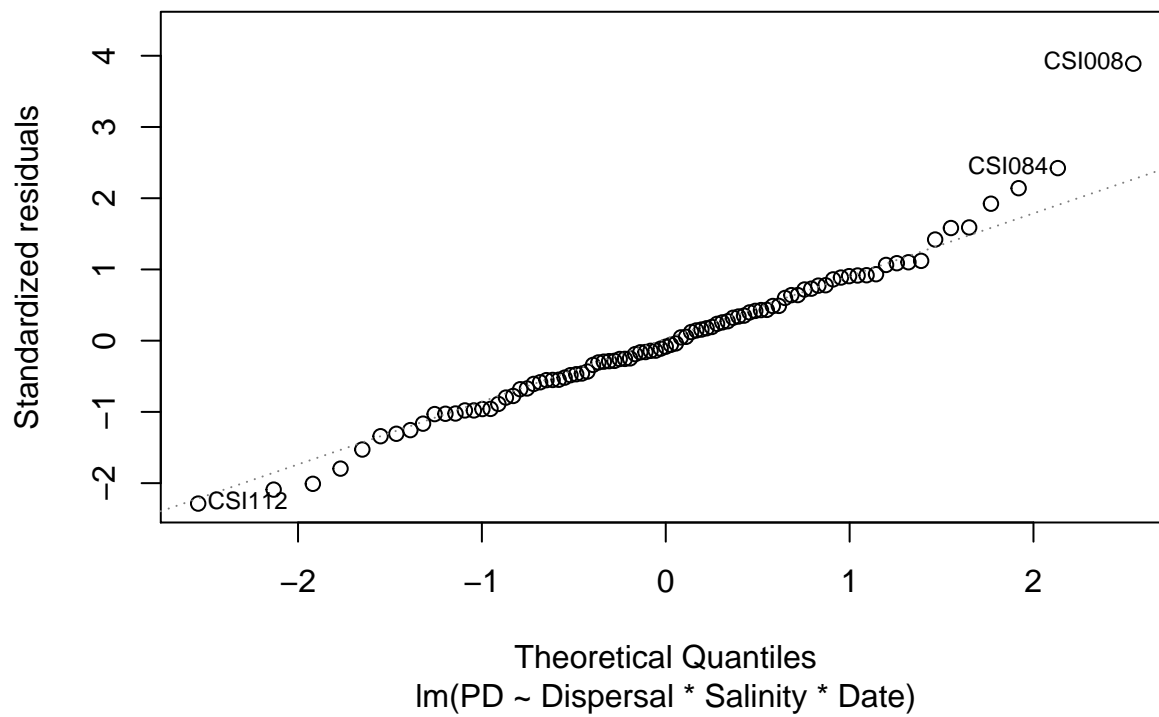
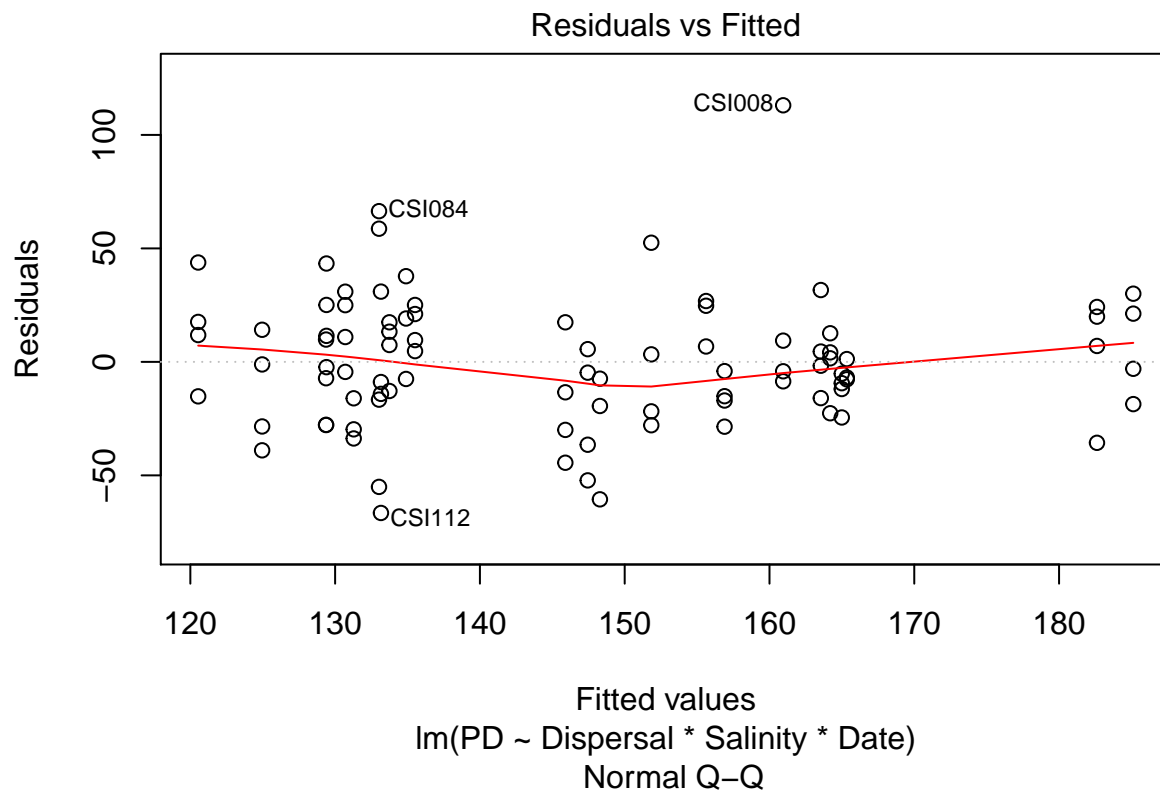
```
RsquareAdj(df.rda)
```

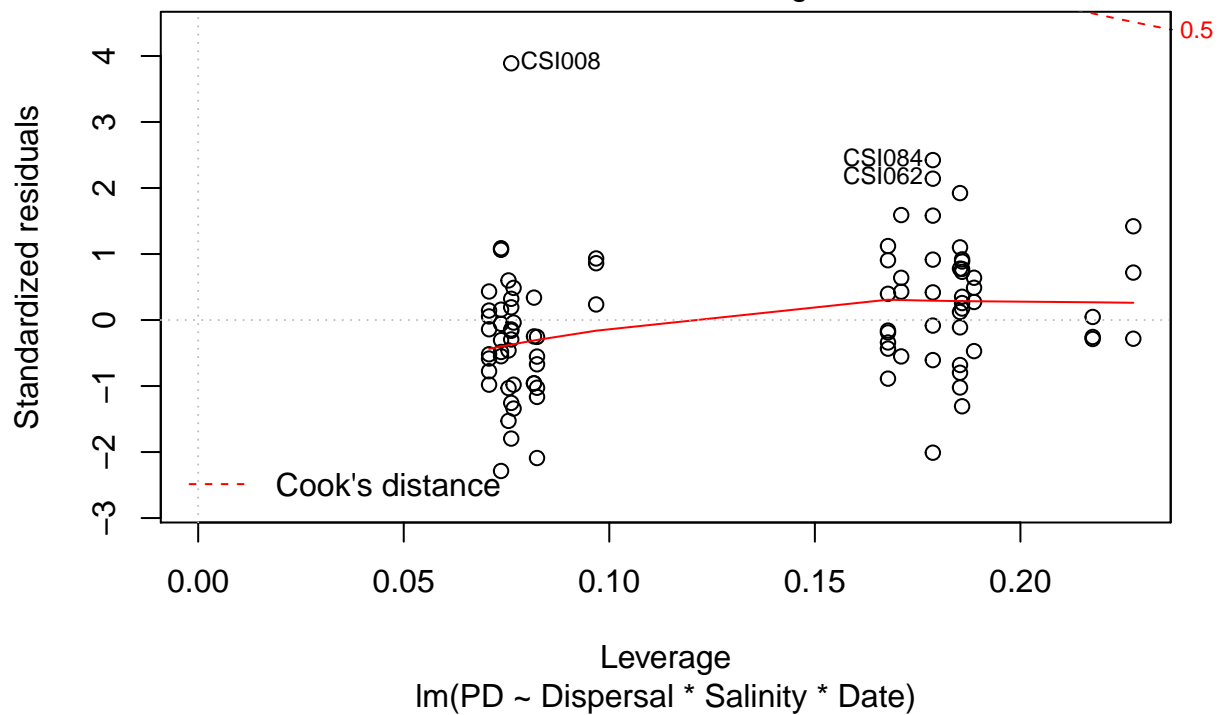
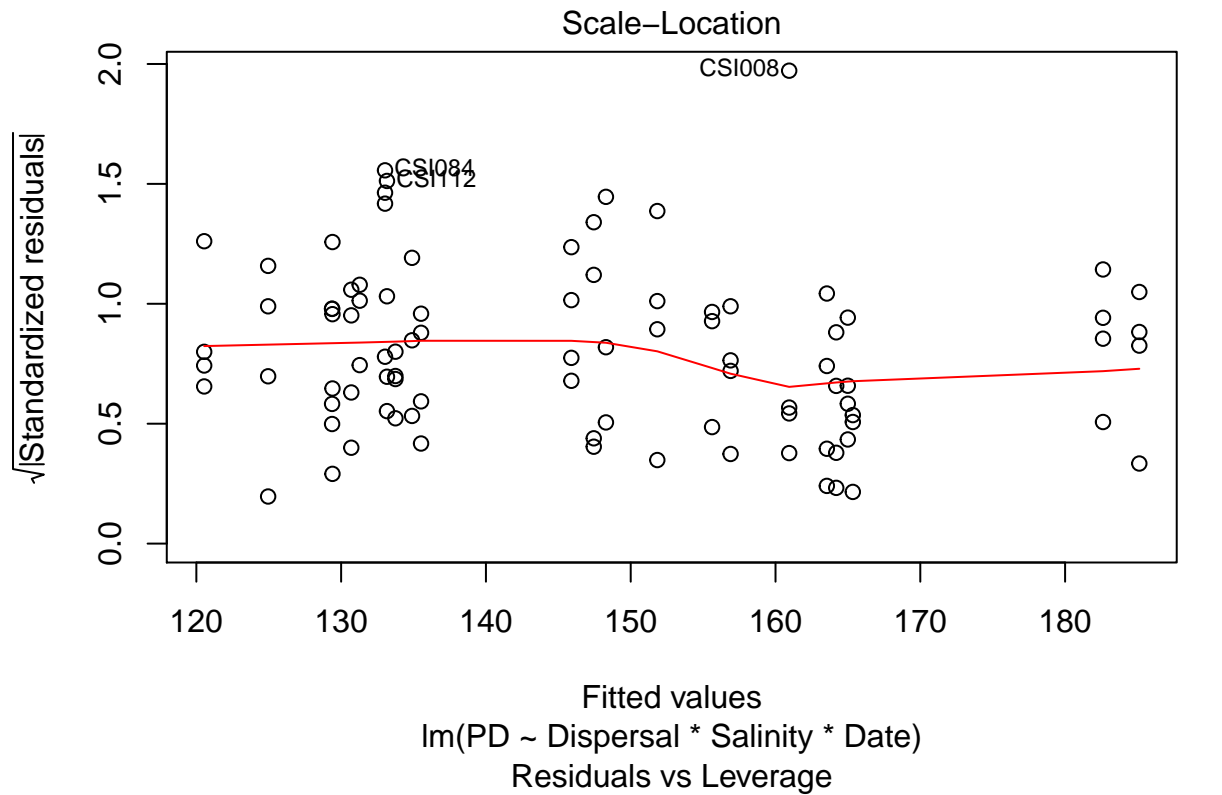
```
## $r.squared
## [1] 0.2062415
##
## $adj.r.squared
## [1] 0.08412478
```

```
plot(df.rda)
```



```
# run full parametric statistical model
PD.lm <- lm(PD ~ Dispersal*Salinity*Date, data = csi.phylo.ns)
plot(PD.lm)
```





```
anova(PD.lm)
```

```
## Analysis of Variance Table
```

```
##
```

```
## Response: PD
```

```
##
```

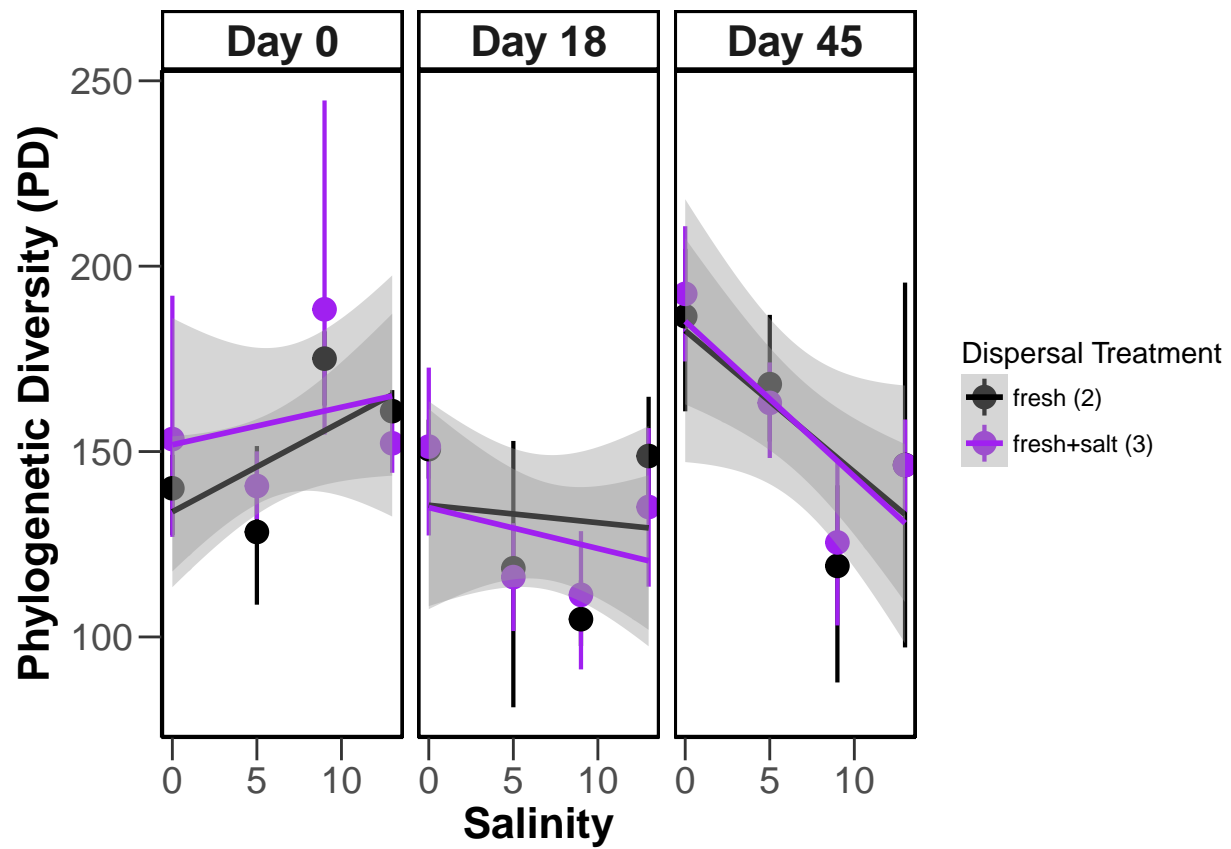
```
Df Sum Sq Mean Sq F value Pr(>F)
```

```
## Dispersal          1      74      74.4  0.0814 0.776199
## Salinity           1    2891   2891.3  3.1612 0.079253 .
## Date              2   13257   6628.6  7.2475 0.001289 **
## Dispersal:Salinity 1     294    293.5  0.3209 0.572650
## Dispersal:Date     2     914    456.8  0.4995 0.608747
## Salinity:Date      2   11676   5838.1  6.3832 0.002693 **
## Dispersal:Salinity:Date 2    104     52.1  0.0570 0.944656
## Residuals         79   72254    914.6
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
# run linear regression measured salinity used instead of 'factor' salinity
PD.reg <- lm(PD~Salinity_real, data = csi.phylo.ns)
summary(PD.reg)
```

```
##
## Call:
## lm(formula = PD ~ Salinity_real, data = csi.phylo.ns)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -82.052 -22.178  -0.528   18.479  131.553
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   155.0612     6.2093   24.972  <2e-16 ***
## Salinity_real  -1.1907     0.7637   -1.559    0.122
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 33.31 on 89 degrees of freedom
## Multiple R-squared:  0.02659,    Adjusted R-squared:  0.01565
## F-statistic: 2.431 on 1 and 89 DF,  p-value: 0.1225
```

```
# Phylogenetic Diversity - Treatment Salinity
p <- ggplot(csi.phylo.ns, aes(x=Salinity, y=PD, color=as.factor(Dispersal)))+ scale_color_manual(name="Dispersal")
p1=p+geom_smooth(method="lm")+facet_wrap(~Date2)+facet_grid(. ~ Date2, labeller=labeller(Date2 = labels.Date2))
p1 + theme_bw() + theme(panel.grid.major = element_blank(), panel.grid.minor = element_blank(), axis.lim
```



```
ggsave("../figures/phylogenetic_div.pdf", plot=last_plot(), device=NULL, path=NULL, scale=1, width=NA, height=NA)
```

```
## Saving 6.5 x 4.5 in image
```