

Temporal Resolution

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In this markdown I will:

1. Divide the data into different resolutions.
2. Calculate null and empirical Whittaker Dissimilarity Index between time period lengths.

Read in Data and Create a Function to Count the Number of Individuals in Designated Time Resolution

```
# Set working directory here
setwd("C:/Users/bankh/My_Repos/Dolphins/data")

## load all necessary packages
library(vegan)
library(sfsmisc, verbose=F)
# Run multiple cores for faster computing
require(doParallel)
require(parallel)

# Read in file and add months
sample_data <- read.csv("sample_data.csv")

# Get all unique Code values in the entire sample_data
all_codes <- unique(sample_data$Code)

# Create a function that counts the IDs in each element
count_instances <- function(df) {
  code_counts <- table(df$Code)
  code_counts <- code_counts[match(all_codes, names(code_counts))] # Add codes to table even if they are not present
  code_counts[is.na(code_counts)] <- 0 # Replace NAs with 0
  return(code_counts)
}
```

Divide Resolutions from Lowest to Highest Scale

```
# ----- 22 sets of 1 year increments -----
# Make a list of only 1 year per dataframe
list_years <- split(sample_data, sample_data$Year)
```

```

# Apply the count_instances function to each year
instances_per_year <- lapply(list_years, count_instances)
# Convert the list of counts to a data frame
ply <- do.call(rbind, instances_per_year)
ply

```

```

##      FB41 FB05 FB36 FB38 FB55 FB96 FB98 F108 F153 FB15 FB23 FB78 FB93 F155 FB01
## 1993    17    26    35    35    28    13    12    10    12    21    20    10    20    31    29
## 1994    33    21    39    42    30    32    27    18    23    16    24    38    16    25    23
## 1995    34    39    53    63    42    18    11    20    18    15    31    26    19    57    67
## 1996     0    49    44    46    46     7     0     2    12    19    13    18    28    88    50
## 1997     0    35    41    41    31     8     0    16    14    36     0    31    25    57    34
## 1998     0    21    23    23    24    13     0     6    12    24     0    20    20    29    25
## 1999     0    24    28    26    32    10     0    11    21    35     0    18    30    27    26
## 2000     0    65    41     0    82    16     0    14    23    42     0    27    69    61    71
## 2001     0    53    29     0    71     8     0    16     9    37     0    44    40    57    64
## 2002     0    26    13     0    29     0     0    14    18    28     0     9    33    35    28
## 2003     0    32    16     0    47     0     0     9    10    25     0    18    27    38     9
## 2004     0    16    28     0    18     0     0    14    12    36     0    16    23    18     0
## 2005     0    29    30     0    37     0     0    10     8    21     0    29    10    28     0
## 2006     0    24    16     0    24     0     0    13    15    27     0    10    22    36     0
## 2007     0    19    35     0    30     0     0    16    12    55     0    45    52    80     0
## 2008     0     6    23     0    49     0     0    13    29    56     0    35    35    41     0
## 2009     0     7    31     0    30     0     0    20    16    25     0    33    16    20     0
## 2010     0     0    13     0    13     0     0     6    12    11     0    23    24    30     0
## 2011     0     0    12     0    19     0     0    39    20    22     0    31    17    25     0
## 2012     0     0     0     0    27     0     0    12    25    28     0    18    28    30     0
## 2013     0     0     0     0    52     0     0     9    19    21     0    35     0    44     0
## 2014     0     0     0     0    28     0     0    16    23    23     0    17     0    27     0
##      FB43 FB92 F118 F122 FB29 FB51 FB54 FB71 FB90 F100 F119 FB14 FB27 FB53 FB57
## 1993    31    39    45    44    21    23    45    23    44    12    14    19    17    48    47
## 1994    22    32    58    60    22     0    58    26    61    24    40    42    18     0    27
## 1995    18    43    83    67    30     0    86    35    69    39    52    46    39     0    31
## 1996    20    50    62    38    37     0    85    26    91    25    50    24    40     0    45
## 1997    24    49    47     0    29     0    66     0    45    31    52    33    49     0     0
## 1998    14    25    25     0    13     0    56     0    38    20    40    22    14     0     0
## 1999    14    20    34     0     0     0    18     0    31    15    43    28    18     0     0
## 2000    22    54    61     0     0     0    73     0    76    49    49   170    47     0     0
## 2001    33    60    66     0     0     0    72     0    72    34    53    75    37     0     0
## 2002    24    38    43     0     0     0    35     0    53    21    45    23    31     0     0
## 2003    17    24    34     0     0     0    81     0    69    21    32    26    37     0     0
## 2004    14    27    26     0     0     0    23     0    26    12    16    10    23     0     0
## 2005    12    32    50     0     0     0    37     0    51    35     0     7    23     0     0
## 2006    29    21    32     0     0     0    19     0    58     4     0     9     9     0     0
## 2007    40    71    49     0     0     0    47     0    82     0     0     5    29     0     0
## 2008    44    63    61     0     0     0    39     0    91     0     0     0    32     0     0
## 2009    17    32    35     0     0     0    27     0    28     0     0     0    24     0     0
## 2010    13    24    32     0     0     0    37     0    27     0     0     0    11     0     0
## 2011    21    31    24     0     0     0    16     0    23     0     0     0    18     0     0
## 2012     7    29     3     0     0     0    27     0    23     0     0     0    22     0     0
## 2013     0    27     0     0     0     0    57     0    31     0     0     0    30     0     0
## 2014     0    39     0     0     0     0    28     0    34     0     0     0    32     0     0
##      FB66 FB76 FB94 F112 FB12 FB03 FB19 F106 FB44 FB62 F175 FB10 FB46 FB75 FB79

```

##	1993	21	23	24	15	14	17	18	32	30	30	21	26	28	21	23
##	1994	33	33	48	34	30	19	0	29	28	27	35	35	32	35	37
##	1995	33	32	53	21	19	29	0	45	47	52	52	48	43	28	24
##	1996	26	24	30	0	17	44	0	45	31	32	58	54	48	27	57
##	1997	38	38	45	0	0	44	0	52	25	4	60	50	46	25	42
##	1998	18	15	27	0	0	29	0	34	12	0	25	17	17	17	30
##	1999	38	37	30	0	0	26	0	28	10	0	38	24	20	25	40
##	2000	88	91	149	0	0	66	0	47	16	0	66	49	50	62	40
##	2001	70	65	84	0	0	82	0	75	13	0	83	61	59	45	46
##	2002	43	38	31	0	0	51	0	30	7	0	51	30	30	30	28
##	2003	42	37	38	0	0	11	0	24	6	0	53	36	13	37	23
##	2004	21	19	11	0	0	0	0	15	7	0	39	22	0	27	34
##	2005	42	37	0	0	0	0	0	33	20	0	37	28	0	33	44
##	2006	11	0	0	0	0	0	0	21	6	0	36	17	0	3	28
##	2007	36	0	0	0	0	0	0	117	14	0	80	41	0	0	67
##	2008	24	0	0	0	0	0	0	0	16	0	51	26	0	0	77
##	2009	13	0	0	0	0	0	0	0	19	0	34	28	0	0	33
##	2010	8	0	0	0	0	0	0	0	13	0	27	16	0	0	42
##	2011	18	0	0	0	0	0	0	0	13	0	43	15	0	0	45
##	2012	23	0	0	0	0	0	0	0	16	0	49	23	0	0	31
##	2013	10	0	0	0	0	0	0	0	17	0	51	23	0	0	21
##	2014	0	0	0	0	0	0	0	0	22	0	25	16	0	0	29
##		FB60	FB13	F138	FB63	FB07	FB11	F132	FB25	F102	F111	F130	F134	F136	F154	F160
##	1993	11	11	34	36	50	43	5	30	7	20	4	10	11	7	6
##	1994	17	14	35	36	38	40	2	43	3	26	1	4	4	7	1
##	1995	7	23	60	60	67	52	3	38	3	10	2	4	4	20	8
##	1996	8	25	53	52	75	98	5	51	7	51	4	4	5	32	19
##	1997	0	51	33	29	47	69	5	41	5	66	1	19	14	31	6
##	1998	0	33	10	9	28	47	0	14	2	21	0	6	5	3	5
##	1999	0	43	12	10	33	30	0	31	2	19	0	3	4	0	6
##	2000	0	46	30	14	74	102	2	53	6	23	0	4	2	2	2
##	2001	0	53	44	34	68	79	3	19	6	40	2	8	7	4	9
##	2002	0	24	34	32	48	53	0	25	1	19	0	0	0	3	2
##	2003	0	29	32	18	40	37	2	29	2	0	0	2	1	3	5
##	2004	0	24	23	17	27	29	0	26	2	0	0	3	4	8	1
##	2005	0	11	35	27	31	53	0	25	4	0	0	5	4	4	4
##	2006	0	16	27	14	51	44	1	18	4	0	0	6	0	6	3
##	2007	0	22	61	17	50	93	0	34	15	0	0	2	0	16	0
##	2008	0	34	51	7	52	60	1	33	9	0	0	9	0	5	0
##	2009	0	9	34	0	22	33	0	32	10	0	0	7	0	1	0
##	2010	0	0	34	0	29	26	0	23	8	0	0	3	0	1	0
##	2011	0	0	28	0	33	29	0	27	4	0	0	0	0	0	0
##	2012	0	0	31	0	40	32	0	24	8	0	0	0	0	1	0
##	2013	0	0	54	0	25	37	0	30	8	0	0	0	0	4	0
##	2014	0	0	34	0	35	27	0	34	5	0	0	0	0	8	0
##		F162	F200	FB20	FB65	HIQQ	POOF	FB28	C333	FB09	FB33	ATNA	CWM3	NKLN	WTMA	FB48
##	1993	6	5	12	31	5	2	2	34	32	36	1	5	1	5	7
##	1994	1	0	41	37	4	1	6	0	42	39	1	3	0	3	11
##	1995	7	0	48	69	2	3	14	0	57	37	1	8	3	9	8
##	1996	20	0	39	63	7	4	12	0	55	70	0	3	1	2	8
##	1997	6	0	35	48	2	7	32	0	41	40	0	4	0	0	6
##	1998	4	0	21	17	0	1	19	0	20	29	0	5	0	1	5
##	1999	8	0	20	34	1	0	25	0	15	25	0	8	0	0	9
##	2000	4	6	55	80	4	2	84	0	54	40	0	3	1	0	57

##	2001	8	1	41	63	8	2	42	0	41	58	0	1	0	0	9
##	2002	2	2	37	41	0	0	29	0	27	31	0	5	1	0	6
##	2003	3	0	41	74	0	1	13	0	43	44	0	2	0	0	9
##	2004	1	2	17	39	2	0	9	0	24	22	0	2	1	0	7
##	2005	2	0	42	32	3	0	9	0	35	45	0	0	0	0	5
##	2006	3	0	24	30	5	1	9	0	31	31	1	3	2	0	7
##	2007	2	0	57	61	13	0	17	0	40	49	5	6	8	0	8
##	2008	3	0	50	83	8	1	23	0	28	43	0	5	1	0	9
##	2009	7	0	36	34	10	0	9	0	11	27	0	3	3	0	2
##	2010	2	0	34	22	7	0	15	0	0	27	0	7	4	0	0
##	2011	8	0	40	29	4	0	3	0	0	21	0	3	2	0	0
##	2012	5	0	61	19	8	0	11	0	0	30	1	2	0	0	0
##	2013	9	0	31	42	8	0	9	0	0	52	0	5	0	0	0
##	2014	6	0	29	30	5	0	17	0	0	29	0	4	0	0	0
##		F105	1054	FB08	FB32	49C3	49LA	CDRA	DRAC	STWR	F161	F164	F104	KMSN	MIDF	5NK2
##	1993	3	1	2	30	6	7	7	8	2	1	1	3	2	1	1
##	1994	0	0	0	28	6	6	0	0	0	0	1	0	3	0	0
##	1995	5	1	0	30	3	12	0	0	0	0	2	0	0	1	1
##	1996	0	0	0	27	0	16	0	0	0	0	2	0	0	0	0
##	1997	2	1	0	23	0	4	0	0	0	1	8	0	0	3	1
##	1998	0	0	0	13	0	6	0	1	0	0	13	0	0	1	2
##	1999	4	0	0	22	0	4	0	0	0	0	1	0	0	0	0
##	2000	3	0	0	88	0	8	0	0	0	0	11	0	0	0	0
##	2001	1	0	0	40	0	4	0	0	0	0	16	0	0	0	0
##	2002	0	0	0	20	0	8	0	0	0	0	4	0	0	2	0
##	2003	0	0	0	0	0	2	0	0	0	0	20	0	0	2	0
##	2004	1	0	0	0	0	2	0	0	0	0	10	0	0	0	0
##	2005	0	0	0	0	0	0	0	0	0	0	37	0	0	0	0
##	2006	0	0	0	0	0	0	0	0	2	0	17	0	0	0	0
##	2007	0	0	0	0	0	0	0	0	0	0	18	0	0	4	0
##	2008	0	0	0	0	0	0	0	0	0	0	34	0	0	4	0
##	2009	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0
##	2010	0	0	0	0	0	0	0	0	0	0	24	0	0	2	0
##	2011	0	0	0	0	0	0	0	0	0	0	17	0	0	2	0
##	2012	0	0	0	0	0	0	0	0	0	0	41	0	0	1	0
##	2013	0	0	0	0	0	0	0	0	0	0	27	0	0	1	0
##	2014	0	0	0	0	0	0	0	0	0	0	27	0	0	1	0
##		F206	LNBT	MBAB	PRNS	SCTN	WTAB	F156	BTTV	SFAN	F147	F210	F237	GITR	GRIM	FB84
##	1993	1	1	1	1	1	1	4	1	1	1	1	8	1	1	15
##	1994	0	0	0	0	0	0	0	0	0	3	0	9	0	0	27
##	1995	0	0	0	0	0	2	0	1	0	1	0	7	0	0	23
##	1996	0	0	0	0	0	0	0	13	0	1	0	1	0	0	41
##	1997	0	0	2	0	0	0	0	5	0	4	1	7	0	0	35
##	1998	0	0	0	0	0	0	0	0	0	2	2	2	0	0	18
##	1999	0	0	0	0	0	0	0	2	0	0	1	5	0	0	20
##	2000	0	0	1	0	2	0	0	0	0	0	2	22	0	1	29
##	2001	0	0	0	0	0	0	0	0	0	0	11	17	0	0	38
##	2002	0	0	0	0	0	0	0	0	0	0	1	16	0	0	24
##	2003	0	0	0	0	0	0	0	0	0	0	3	10	0	0	0
##	2004	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0
##	2005	0	0	0	0	1	1	0	0	0	0	4	24	0	0	0
##	2006	0	1	1	0	1	1	0	0	0	0	5	29	0	0	0
##	2007	0	0	0	0	4	0	0	0	0	0	4	57	0	0	0
##	2008	0	0	0	0	3	1	0	0	0	0	1	45	0	0	0

##	2009	0	0	1	0	1	0	0	0	0	0	13	0	0	0	
##	2010	0	0	0	0	1	0	0	0	0	0	15	0	1	0	
##	2011	0	0	0	0	0	0	0	0	0	0	11	0	0	0	
##	2012	0	0	0	0	0	0	0	0	0	0	10	0	0	0	
##	2013	0	0	0	0	0	0	0	0	0	0	20	0	1	0	
##	2014	0	0	0	0	0	0	0	0	0	0	26	0	0	0	
##		CRAG	HVMS	LCKL	RUFF	FB59	FB83	FB02	C834	BBMB	LDSL	LSMS	MCMA	PN06	F276	FB24
##	1993	2	2	3	3	20	13	17	9	2	2	1	4	1	7	8
##	1994	0	0	9	0	37	14	29	8	3	3	0	5	0	0	19
##	1995	4	1	1	1	49	21	52	16	1	2	0	5	1	9	36
##	1996	1	0	0	2	19	18	28	1	1	0	1	11	0	3	18
##	1997	0	0	0	0	25	25	14	12	0	0	0	3	0	10	19
##	1998	3	0	0	3	17	11	18	22	2	2	0	6	0	5	13
##	1999	2	2	0	2	19	31	14	23	1	1	0	7	0	15	0
##	2000	2	1	0	2	37	43	46	26	2	2	0	25	0	34	0
##	2001	1	2	0	1	61	26	23	40	1	1	0	14	0	31	0
##	2002	0	1	0	0	43	17	28	21	2	3	0	0	0	12	0
##	2003	0	1	0	3	1	21	22	19	0	0	0	0	0	9	0
##	2004	0	0	0	1	0	14	19	12	1	1	0	0	0	12	0
##	2005	0	2	0	2	0	0	36	14	1	1	0	0	0	14	0
##	2006	0	2	0	0	0	0	30	15	0	1	0	0	0	18	0
##	2007	0	8	0	0	0	0	49	41	0	0	0	0	1	47	0
##	2008	0	8	1	0	0	0	52	43	0	0	0	0	0	53	0
##	2009	0	5	1	0	0	0	22	21	0	0	0	0	0	24	0
##	2010	0	6	0	0	0	0	21	16	0	0	0	0	0	28	0
##	2011	0	4	0	0	0	0	22	27	0	0	0	0	0	25	0
##	2012	0	6	0	0	0	0	37	36	0	0	0	0	0	50	0
##	2013	0	2	1	0	0	0	20	24	0	0	0	0	0	33	0
##	2014	0	4	0	0	0	0	13	19	0	0	0	0	0	36	0
##		FB35	F182	DRSN	F150	F128	F131	DIPT	SLMS	2SDN	BBL2	BBLN	BTLN	CHK2	ETMA	HFFR
##	1993	8	10	8	5	9	19	2	2	1	1	2	1	2	2	1
##	1994	3	25	9	0	24	33	0	0	1	0	0	2	0	1	0
##	1995	11	30	17	0	16	74	2	2	0	0	1	0	1	1	0
##	1996	6	33	18	0	20	58	4	0	0	1	1	2	1	1	0
##	1997	10	37	19	0	49	62	3	0	1	1	1	0	0	0	0
##	1998	6	17	9	0	27	26	5	0	0	0	1	1	0	0	0
##	1999	6	24	19	0	31	29	0	0	0	0	0	0	0	6	0
##	2000	5	38	7	0	39	51	5	0	0	0	0	0	0	0	0
##	2001	6	38	4	0	65	76	0	0	0	0	1	1	0	1	0
##	2002	5	20	5	0	33	43	0	0	0	0	0	2	0	1	0
##	2003	4	19	10	0	33	21	0	0	0	0	0	0	0	2	0
##	2004	3	19	15	0	21	36	0	0	0	0	0	0	0	1	0
##	2005	5	18	7	0	31	31	0	0	0	0	1	1	0	0	0
##	2006	8	23	7	0	31	30	0	0	0	0	3	0	0	2	0
##	2007	15	24	14	0	63	92	0	0	0	0	2	0	0	0	0
##	2008	14	39	15	0	71	68	0	0	0	0	3	0	0	0	0
##	2009	11	20	16	0	32	38	0	0	0	0	1	0	0	0	0
##	2010	15	16	14	0	19	37	0	0	0	0	0	0	0	0	0
##	2011	10	25	8	0	28	33	0	0	0	0	0	0	0	0	0
##	2012	14	28	0	0	30	41	0	0	0	0	0	0	0	0	0
##	2013	10	23	0	0	29	52	0	0	0	0	1	0	0	0	0
##	2014	6	17	0	0	39	42	0	0	0	0	1	0	0	0	0
##		HNBT	HOWL	JAGG	JIG3	KMBT	LOBE	MLTS	MM68	MOLA	MTLR	PLOB	RT90	SHOT	SURR	TFMS
##	1993	1	2	2	1	2	1	1	1	1	1	1	1	2	1	1

## 1994	1	0	0	1	0	0	1	0	0	0	0	0	1	0	0
## 1995	1	0	2	1	1	2	0	0	0	0	0	0	0	2	2
## 1996	0	0	1	2	0	1	0	0	0	0	0	0	3	1	0
## 1997	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
## 1998	0	0	0	2	0	0	2	0	0	0	0	0	2	0	0
## 1999	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2000	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0
## 2001	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
## 2002	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
## 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2005	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0
## 2006	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
## 2007	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
## 2008	3	0	0	1	0	0	2	0	0	0	0	0	0	0	0
## 2009	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0
## 2010	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
## 2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2012	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
## 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	TSMV	THLA	C173	FB17	F110	F191	FB73	SPNC	SPNM	PSD2	PSDZ	HSNC	HSNS	AABE	BIDF
## 1993	1	1	6	10	6	5	4	1	1	1	1	2	2	1	1
## 1994	0	0	0	9	12	7	6	0	0	2	1	0	1	0	0
## 1995	3	0	0	5	14	3	2	0	0	0	0	0	4	0	0
## 1996	3	0	0	19	9	8	6	0	0	0	0	0	0	0	0
## 1997	2	0	0	11	14	8	5	0	0	0	0	0	1	0	0
## 1998	1	0	0	5	10	8	1	0	0	0	0	0	1	0	1
## 1999	3	0	0	4	14	4	1	0	0	0	0	0	0	0	0
## 2000	6	0	0	7	17	11	6	0	0	0	0	0	0	0	0
## 2001	2	0	0	7	20	0	7	0	0	0	0	0	0	0	0
## 2002	6	0	0	8	18	0	5	0	0	0	0	0	1	0	1
## 2003	0	0	0	6	23	0	0	0	0	0	0	0	1	0	0
## 2004	1	0	0	11	11	0	0	0	0	0	0	0	1	0	0
## 2005	0	0	0	10	11	0	0	0	0	0	0	0	0	0	0
## 2006	4	0	0	5	11	0	0	0	0	0	0	0	0	0	0
## 2007	1	0	0	0	29	0	0	0	0	0	0	0	1	0	0
## 2008	10	0	0	0	23	0	0	0	0	0	0	0	5	0	0
## 2009	9	0	0	0	18	0	0	0	0	0	0	0	1	0	0
## 2010	7	0	0	0	10	0	0	0	0	0	0	0	1	0	1
## 2011	4	0	0	0	15	0	0	0	0	0	0	0	1	0	0
## 2012	3	0	0	0	14	0	0	0	0	0	0	0	3	0	0
## 2013	0	0	0	0	17	0	0	0	0	1	0	0	5	0	1
## 2014	4	0	0	0	16	0	0	0	0	0	0	0	5	0	1
##	BRAC	ETSC	FNOT	GFSD	HBL5	LGSC	MOL2	MOST	MTMN	NLPS	PLUG	TINI	TOTW	F183	THUB
## 1993	3	1	1	3	1	3	1	3	3	3	2	1	3	9	1
## 1994	0	1	0	0	0	0	0	0	0	1	0	0	0	10	0
## 1995	0	0	0	0	0	1	0	0	1	0	0	0	0	10	0
## 1996	0	0	0	0	0	0	0	0	14	0	0	0	0	13	1
## 1997	0	0	1	0	0	0	0	0	0	0	6	0	1	15	1
## 1998	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1
## 1999	0	0	0	1	0	0	1	0	0	0	0	0	0	21	0
## 2000	0	0	0	0	0	0	0	0	0	0	0	0	0	20	1
## 2001	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1

##	2002	1	0	0	0	0	0	0	0	0	0	1	1	2	11	0
##	2003	1	0	0	0	0	0	0	0	0	0	2	0	0	13	0
##	2004	0	0	0	0	0	0	0	0	0	1	0	0	0	16	0
##	2005	1	0	0	0	0	0	0	0	0	0	0	0	0	9	0
##	2006	2	0	0	0	0	0	0	0	0	1	0	0	0	1	0
##	2007	5	0	0	0	0	0	0	0	0	1	5	0	0	0	0
##	2008	0	0	0	0	0	0	0	0	0	1	17	0	0	0	0
##	2009	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0
##	2010	6	0	0	0	0	0	0	0	0	1	3	1	0	0	0
##	2011	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0
##	2012	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
##	2013	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0
##	2014	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
##		F114	C791	FB26	FB34	F180	BEEH	BKTL	FLCR	HFTP	MDS2	MSR2	PKUP	SPTP	WHMR	SCOR
##	1993	7	16	6	10	3	1	1	1	1	1	1	1	1	1	1
##	1994	29	11	14	20	0	0	0	0	0	0	0	0	0	0	0
##	1995	34	0	9	17	10	0	0	0	0	0	0	0	0	0	1
##	1996	37	0	8	0	13	0	0	0	0	0	0	0	0	0	0
##	1997	24	0	6	0	31	0	0	0	0	0	0	1	0	0	0
##	1998	19	0	9	0	10	0	0	0	0	0	0	0	0	0	0
##	1999	19	0	8	0	2	0	0	0	0	0	0	0	0	0	0
##	2000	31	0	64	0	4	0	0	0	0	0	0	0	0	0	0
##	2001	35	0	8	0	3	0	1	1	0	0	1	0	0	1	0
##	2002	30	0	0	0	2	0	0	0	0	0	1	1	0	0	0
##	2003	14	0	0	0	6	0	0	0	0	0	0	0	0	0	0
##	2004	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2005	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2006	10	0	0	0	0	1	1	1	0	0	0	0	0	0	0
##	2007	17	0	0	0	3	0	0	0	0	0	0	0	0	0	0
##	2008	26	0	0	0	5	0	0	0	0	0	1	0	0	0	0
##	2009	6	0	0	0	0	0	0	1	0	0	0	0	0	0	0
##	2010	9	0	0	0	1	0	0	0	0	0	0	0	0	0	0
##	2011	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
##	2012	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0
##	2013	8	0	0	0	1	0	0	0	0	0	0	0	0	0	0
##	2014	18	0	0	0	1	0	0	0	0	0	0	0	0	0	0
##		SPIK	FJSL	F117	OTH_608	MBOX	ELFF	PN04	TM32	TTM3	AAR2	LNST	LSL1	PINC	PNLB	
##	1993	3	1	14		1	1	3	1	1	1	1	2	1	1	1
##	1994	1	0	38		0	0	5	2	0	0	0	0	0	0	0
##	1995	4	1	37		0	0	9	3	0	1	0	1	0	0	0
##	1996	0	0	34		0	0	3	2	0	0	0	1	0	0	0
##	1997	0	0	0		0	0	3	0	0	1	0	0	0	0	0
##	1998	0	0	31		0	0	2	0	0	0	0	0	0	0	0
##	1999	0	0	44		0	0	1	0	0	2	0	0	0	0	0
##	2000	0	0	78		0	0	1	0	0	0	0	0	0	0	0
##	2001	0	0	61		0	0	4	0	0	1	0	0	0	0	0
##	2002	0	0	15		0	0	2	0	0	4	0	1	0	0	0
##	2003	0	0	0		0	0	3	0	0	1	0	0	0	0	0
##	2004	0	0	0		0	0	0	0	0	0	0	0	0	0	0
##	2005	0	2	0		0	0	0	0	0	1	0	1	0	0	0
##	2006	0	0	0		0	0	1	0	0	0	0	1	0	0	0
##	2007	0	0	0		0	0	0	0	0	1	0	0	0	0	0
##	2008	0	1	0		0	0	0	0	0	0	0	0	0	0	0
##	2009	0	0	0		0	0	0	0	0	3	0	1	0	0	0

## 2010	0	0	0		0	0	0	0	0	1	0	0	0	0	0
## 2011	0	0	0		0	0	0	0	0	0	0	1	0	0	0
## 2012	0	0	0		0	0	0	0	0	0	0	1	0	0	0
## 2013	0	0	0		0	0	0	0	0	0	0	0	0	0	0
## 2014	0	0	0		0	0	0	0	0	0	0	0	0	0	0
##	TBBX	FB39	CMRS	CONC	CONS	F163	F181	HAIR	HITS	MSQ2	RTMW	SPGC	SPGT	TABB	MDNK
## 1993	1	4	3	1	1	1	3	3	1	1	1	1	1	3	2
## 1994	0	11	1	2	2	0	5	1	5	1	7	0	0	0	2
## 1995	0	13	0	0	0	2	4	3	0	2	4	0	1	5	2
## 1996	0	12	1	0	2	39	24	5	0	1	4	0	2	4	0
## 1997	0	0	0	0	1	42	31	5	0	4	12	0	0	3	2
## 1998	0	0	0	0	1	21	29	2	0	1	2	0	0	1	0
## 1999	0	0	0	0	1	20	19	0	0	0	1	0	0	1	0
## 2000	0	0	6	0	4	63	102	12	3	3	7	0	0	2	0
## 2001	0	0	4	0	1	43	11	2	2	2	3	0	0	1	0
## 2002	0	0	0	0	3	6	9	2	0	0	5	0	0	0	0
## 2003	0	0	4	0	0	12	44	7	1	0	1	0	0	1	2
## 2004	0	0	7	0	3	0	23	6	6	4	5	0	0	2	1
## 2005	0	0	15	0	1	0	19	5	14	2	6	0	0	0	9
## 2006	0	0	9	0	0	0	15	8	10	3	4	0	0	3	24
## 2007	0	0	10	0	0	0	38	11	10	0	1	0	0	0	19
## 2008	0	0	5	0	0	0	17	9	5	0	6	0	0	3	4
## 2009	0	0	10	0	0	0	0	10	10	0	12	0	0	0	0
## 2010	0	0	11	0	0	0	0	6	10	0	7	0	0	0	0
## 2011	0	0	7	0	0	0	0	8	7	0	5	0	0	0	0
## 2012	0	0	5	0	0	0	0	3	4	0	11	0	0	0	0
## 2013	0	0	13	0	0	0	0	16	11	0	7	0	0	0	0
## 2014	0	0	12	0	0	0	0	8	12	0	2	0	0	0	0
##	KNOB	PSDC	MDSQ	NIK2	HSMS	CO72	BFWT	JAWS	THOS	CHPC	FNNK	DROL	ALHK	LHLV	PLUC
## 1993	6	1	1	1	1	1	3	3	1	1	1	1	1	2	1
## 1994	3	0	0	0	0	0	1	3	0	0	0	0	2	1	0
## 1995	7	0	0	2	0	0	5	6	0	0	0	0	2	0	0
## 1996	6	0	0	1	0	0	0	0	0	0	0	0	2	0	0
## 1997	7	0	0	1	0	0	0	0	0	1	0	0	0	0	0
## 1998	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
## 1999	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
## 2000	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
## 2001	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
## 2002	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
## 2003	0	0	1	0	0	0	0	0	0	0	0	0	4	0	0
## 2004	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
## 2005	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0
## 2006	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0
## 2007	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0
## 2008	0	0	0	1	0	0	0	0	0	0	0	0	4	1	0
## 2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	FB06	CTRK	TRUN	FB87	LB2N	CKB2	1832	SUM0	F157	FRIL	SOLB	TCTV	IKNO	F101	LCKC
## 1993	14	1	1	5	3	4	5	1	2	1	3	4	2	2	1
## 1994	37	0	0	5	0	3	4	0	0	0	7	1	0	42	0

##	1995	44	0	0	16	0	3	6	0	0	0	12	7	4	57	0
##	1996	28	0	0	14	0	0	7	0	18	0	9	6	5	42	0
##	1997	38	0	0	42	0	0	7	2	43	0	9	13	16	61	0
##	1998	15	0	0	18	0	0	0	0	18	0	7	3	11	32	0
##	1999	28	0	0	21	0	0	0	1	19	0	11	4	27	45	0
##	2000	66	0	0	31	0	0	0	4	81	0	19	1	22	59	0
##	2001	57	0	0	12	0	0	0	2	60	0	17	1	6	57	0
##	2002	35	0	0	11	0	0	0	2	35	0	19	2	0	19	0
##	2003	22	0	0	16	0	0	0	3	78	0	17	17	0	32	0
##	2004	29	0	0	6	0	0	0	5	23	0	10	5	0	23	0
##	2005	40	0	0	6	0	0	0	9	38	0	11	2	0	0	0
##	2006	14	0	0	13	0	0	0	10	29	0	8	1	0	0	0
##	2007	0	0	0	21	0	0	0	11	34	0	23	14	0	0	0
##	2008	0	0	0	23	0	0	0	0	41	0	25	7	0	0	0
##	2009	0	0	0	18	0	0	0	0	10	0	11	0	0	0	0
##	2010	0	0	0	15	0	0	0	0	6	0	11	4	0	0	0
##	2011	0	0	0	16	0	0	0	0	0	0	15	7	0	0	0
##	2012	0	0	0	25	0	0	0	0	0	0	12	4	0	0	0
##	2013	0	0	0	14	0	0	0	0	0	0	14	4	0	0	0
##	2014	0	0	0	25	0	0	0	0	0	0	17	2	0	0	0
##		LNTB	VRIP	HFLT	ZENN	CCLW	CLAW	AOTA	BKHO	BRCC	FTMA	FTMC	TURT	F254	FRFI	MPTB
##	1993	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1
##	1994	0	0	0	7	0	0	0	0	0	0	0	0	0	0	4
##	1995	0	0	2	5	0	0	2	0	0	0	0	0	2	0	1
##	1996	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
##	1997	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1
##	1998	0	1	5	0	0	0	0	1	0	0	0	0	3	0	5
##	1999	0	0	3	0	0	0	1	2	0	0	0	0	2	0	2
##	2000	0	0	1	0	0	0	0	5	0	0	0	0	0	0	10
##	2001	0	0	1	0	0	0	1	0	0	0	0	0	1	0	35
##	2002	0	1	5	0	0	0	0	1	0	0	0	0	4	0	16
##	2003	0	0	3	0	0	0	3	2	0	0	0	0	3	0	17
##	2004	0	0	3	0	0	0	0	2	0	0	0	0	6	0	10
##	2005	0	1	4	0	0	0	0	0	0	0	0	0	19	0	18
##	2006	0	1	6	0	0	0	0	0	0	0	0	0	6	0	20
##	2007	0	0	7	0	0	0	0	0	0	0	0	0	14	0	27
##	2008	0	0	0	0	0	0	0	4	0	0	0	0	15	0	28
##	2009	0	1	0	0	0	0	0	1	0	0	0	0	19	0	17
##	2010	0	0	0	0	0	0	0	0	0	0	0	0	11	0	10
##	2011	0	1	0	0	0	0	0	2	0	0	0	0	13	0	19
##	2012	0	1	0	0	0	0	0	0	0	0	0	0	16	0	16
##	2013	0	0	0	0	0	0	0	6	0	0	0	0	17	0	15
##	2014	0	0	0	0	0	0	0	6	0	0	0	0	23	0	14
##		OTH_554	SHTC	TRIF	TERM	HSLA	PHNE	PN10	PNSN	FEAT	<NA>	<NA>	<NA>	<NA>	<NA>	
##	1993	1	1	1	1	1	1	1	1	1	0	0	0	0	0	
##	1994	0	0	1	0	0	2	4	2	0	6	3	4	6	1	
##	1995	0	1	1	0	0	2	0	1	0	0	6	5	8	0	
##	1996	0	0	2	0	0	4	0	0	2	0	12	7	3	0	
##	1997	0	1	0	0	0	1	0	0	1	0	24	0	0	0	
##	1998	0	2	0	0	0	2	1	0	1	0	50	0	0	0	
##	1999	0	11	0	0	0	0	2	1	0	0	8	0	0	0	
##	2000	0	28	0	0	0	0	2	0	1	0	13	0	0	0	
##	2001	0	39	1	0	0	0	0	0	1	0	64	0	0	0	
##	2002	0	14	0	0	0	0	0	0	0	0	18	0	0	0	

## 2003	0	4	0	0	0	0	0	0	0	0	14	0	0	0
## 2004	0	4	0	0	0	0	0	0	0	0	15	0	0	0
## 2005	0	3	1	0	0	0	0	0	1	0	20	0	0	0
## 2006	0	0	1	0	0	0	0	0	1	0	26	0	0	0
## 2007	0	0	1	0	0	0	0	0	6	0	30	0	0	0
## 2008	0	0	0	0	0	0	0	0	1	0	43	0	0	0
## 2009	0	0	0	0	0	0	0	0	1	0	28	0	0	0
## 2010	0	0	1	0	0	0	0	0	1	0	29	0	0	0
## 2011	0	0	0	0	0	0	0	0	0	0	226	0	0	0
## 2012	0	0	1	0	0	0	0	0	0	0	30	0	0	0
## 2013	0	0	2	0	0	0	0	0	0	0	0	0	0	0
## 2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 1994	1	1	11	9	2	2	3	1	1	1	1	2	2	1
## 1995	0	2	5	3	0	1	4	0	0	3	1	2	2	0
## 1996	0	5	2	2	1	1	0	0	0	10	3	5	0	0
## 1997	0	0	22	22	0	0	0	0	0	3	1	12	0	0
## 1998	0	0	12	9	0	0	0	0	0	2	0	3	0	0
## 1999	0	0	26	22	0	1	0	0	0	2	0	0	0	0
## 2000	0	0	21	19	0	0	0	0	0	2	0	6	0	0
## 2001	0	0	41	42	0	1	2	0	0	1	0	11	0	0
## 2002	0	0	9	10	0	0	0	0	0	3	0	3	0	0
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## 2004	0	0	0	7	0	0	0	0	0	0	4	0	0	0
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[illegible]

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## 1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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[illegible]

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## 2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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##	2014	0	2	1	1	0	0	0	0	0	0	0	1	0	0	31
##																

[illegible]

##	1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2008	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2013	3	1	1	20	6	3	1	33	5	25	2	2	1	2
##	2014	0	0	0	23	0	1	2	0	0	17	1	0	1	9
##		<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2008	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2010	0	0	0											

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[illegible]

##	1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2008	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2014	1	1	1	1	1	2	2	4	1	2	9	4	1	2
##		<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2008	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2011	0	0	0	0										

## 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2014	19	25	5	1	1	1	5	1	1	1	1	3	1	1	2
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2014	4	2	1	1	1	1	14	1	2	1	1	1	1	6	1
##	<NA>	<NA>													
## 1993	0	0													
## 1994	0	0													
## 1995	0	0													
## 1996	0	0													
## 1997	0	0													
## 1998	0	0													
## 1999	0	0													
## 2000	0	0													
## 2001	0	0													
## 2002	0	0													
## 2003	0	0													
## 2004	0	0													
## 2005	0	0													
## 2006	0	0													
## 2007	0	0													
## 2008	0	0													
## 2009	0	0													
## 2010	0	0													


```
## 2011    0    0
## 2012    0    0
## 2013    0    0
## 2014    1    1
```

```
# Transforming into binary matrices
```

```
p1y <- as.matrix(p1y); p1y[which(p1y>=1)] = 1; p1y[which(p1y<1)] = 0
```

```
# ----- 11 sets of 2 year increments-----
```

```
# Make a list of 2 years per dataframe
```

```
sample_data$TwoYearIncrement <- cut(sample_data$Year, breaks = seq(min(sample_data$Year), max(sample_data$Year), length.out = 11))
```

```
list_twoyears <- split(sample_data, sample_data$TwoYearIncrement)
```

```
# Apply the count_instances function to each two years
```

```
instances_per_twoyear <- lapply(list_twoyears, count_instances)
```

```
# Convert the list of counts to a data frame
```

```
p2y <- do.call(rbind, instances_per_twoyear)
```

```
p2y
```

```
##      FB41 FB05 FB36 FB38 FB55 FB96 FB98 F108 F153 FB15 FB23 FB78 FB93 F155 FB01
## 1      67   60   92  105   72   50   38   38   41   31   55   64   35   82   90
## 2       0   84   85   87   77   15    0   18   26   55   13   49   53  145   84
## 3       0   45   51   49   56   23    0   17   33   59    0   38   50   56   51
## 4       0  118   70    0  153   24    0   30   32   79    0   71  109  118  135
## 5       0   58   29    0   76    0    0   23   28   53    0   27   60   73   37
## 6       0   45   58    0   55    0    0   24   20   57    0   45   33   46    0
## 7       0   43   51    0   54    0    0   29   27   82    0   55   74  116    0
## 8       0   13   54    0   79    0    0   33   45   81    0   68   51   61    0
## 9       0    0   25    0   32    0    0   45   32   33    0   54   41   55    0
## 10      0    0    0    0   79    0    0   21   44   49    0   53   28   74    0
## 11      0    0    0    0   28    0    0   16   23   23    0   17    0   27    0
##      FB43 FB92 F118 F122 FB29 <NA> FB54 FB71 FB90 F100 F119 FB14 FB27 <NA> FB57
## 1      40   75  141  127   52    0  144   61  130   63   92   88   57    0   58
## 2      44   99  109   38   66    0  151   26  136   56  102   57   89    0   45
## 3      28   45   59    0   13    0   74    0   69   35   83   50   32    0    0
## 4      55  114  127    0    0    0  145    0  148   83  102  245   84    0    0
## 5      41   62   77    0    0    0  116    0  122   42   77   49   68    0    0
## 6      26   59   76    0    0    0   60    0   77   47   16   17   46    0    0
## 7      69   92   81    0    0    0   66    0  140    4    0   14   38    0    0
## 8      61   95   96    0    0    0   66    0  119    0    0    0   56    0    0
## 9      34   55   56    0    0    0   53    0   50    0    0    0   29    0    0
## 10      7   56    3    0    0    0   84    0   54    0    0    0   52    0    0
## 11      0   39    0    0    0    0   28    0   34    0    0    0   32    0    0
##      FB66 FB76 FB94 F112 FB12 FB03 <NA> F106 FB44 FB62 F175 FB10 FB46 FB75 FB79
## 1      66   65  101   55   49   48    0   74   75   79   87   83   75   63   61
## 2      64   62   75    0   17   88    0   97   56   36  118  104   94   52   99
## 3      56   52   57    0    0   55    0   62   22    0   63   41   37   42   70
## 4     158  156  233    0    0  148    0  122   29    0  149  110  109  107   86
## 5      85   75   69    0    0   62    0   54   13    0  104   66   43   67   51
## 6      63   56   11    0    0    0    0   48   27    0   76   50    0   60   78
## 7      47    0    0    0    0    0    0  138   20    0  116   58    0    3   95
## 8      37    0    0    0    0    0    0    0   35    0   85   54    0    0  110
## 9      26    0    0    0    0    0    0    0   26    0   70   31    0    0   87
## 10     33    0    0    0    0    0    0    0   33    0  100   46    0    0   52
```

## 11	0	0	0	0	0	0	0	0	22	0	25	16	0	0	29
##	FB60	FB13	F138	FB63	FB07	FB11	F132	FB25	F102	F111	F130	F134	F136	F154	F160
## 1	24	37	95	96	105	92	5	81	6	36	3	8	8	27	9
## 2	8	76	86	81	122	167	10	92	12	117	5	23	19	63	25
## 3	0	76	22	19	61	77	0	45	4	40	0	9	9	3	11
## 4	0	99	74	48	142	181	5	72	12	63	2	12	9	6	11
## 5	0	53	66	50	88	90	2	54	3	19	0	2	1	6	7
## 6	0	35	58	44	58	82	0	51	6	0	0	8	8	12	5
## 7	0	38	88	31	101	137	1	52	19	0	0	8	0	22	3
## 8	0	43	85	7	74	93	1	65	19	0	0	16	0	6	0
## 9	0	0	62	0	62	55	0	50	12	0	0	3	0	1	0
## 10	0	0	85	0	65	69	0	54	16	0	0	0	0	5	0
## 11	0	0	34	0	35	27	0	34	5	0	0	0	0	8	0
##	F162	<NA>	FB20	FB65	HIQQ	POOF	FB28	<NA>	FB09	FB33	ATNA	CWM3	NKLN	WTMA	FB48
## 1	8	0	89	106	6	4	20	0	99	76	2	11	3	12	19
## 2	26	0	74	111	9	11	44	0	96	110	0	7	1	2	14
## 3	12	0	41	51	1	1	44	0	35	54	0	13	0	1	14
## 4	12	7	96	143	12	4	126	0	95	98	0	4	1	0	66
## 5	5	2	78	115	0	1	42	0	70	75	0	7	1	0	15
## 6	3	2	59	71	5	0	18	0	59	67	0	2	1	0	12
## 7	5	0	81	91	18	1	26	0	71	80	6	9	10	0	15
## 8	10	0	86	117	18	1	32	0	39	70	0	8	4	0	11
## 9	10	0	74	51	11	0	18	0	0	48	0	10	6	0	0
## 10	14	0	92	61	16	0	20	0	0	82	1	7	0	0	0
## 11	6	0	29	30	5	0	17	0	0	29	0	4	0	0	0
##	F105	1054	<NA>	FB32	49C3	49LA	<NA>	<NA>	<NA>	<NA>	F164	<NA>	KMSN	MIDF	5NK2
## 1	5	1	0	58	9	18	0	0	0	0	3	0	3	1	1
## 2	2	1	0	50	0	20	0	0	0	1	10	0	0	3	1
## 3	4	0	0	35	0	10	0	1	0	0	14	0	0	1	2
## 4	4	0	0	128	0	12	0	0	0	0	27	0	0	0	0
## 5	0	0	0	20	0	10	0	0	0	0	24	0	0	4	0
## 6	1	0	0	0	0	2	0	0	0	0	47	0	0	0	0
## 7	0	0	0	0	0	0	0	0	2	0	35	0	0	4	0
## 8	0	0	0	0	0	0	0	0	0	0	50	0	0	4	0
## 9	0	0	0	0	0	0	0	0	0	0	41	0	0	4	0
## 10	0	0	0	0	0	0	0	0	0	0	68	0	0	2	0
## 11	0	0	0	0	0	0	0	0	0	0	27	0	0	1	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	WTAB	<NA>	BTTV	<NA>	F147	<NA>	F237	<NA>	<NA>	FB84
## 1	0	0	0	0	0	2	0	1	0	4	0	16	0	0	50
## 2	0	0	2	0	0	0	0	18	0	5	1	8	0	0	76
## 3	0	0	0	0	0	0	0	2	0	2	3	7	0	0	38
## 4	0	0	1	0	2	0	0	0	0	0	13	39	0	1	67
## 5	0	0	0	0	0	0	0	0	0	0	4	26	0	0	24
## 6	0	0	0	0	1	1	0	0	0	0	4	30	0	0	0
## 7	0	1	1	0	5	1	0	0	0	0	9	86	0	0	0
## 8	0	0	1	0	4	1	0	0	0	0	1	58	0	0	0
## 9	0	0	0	0	1	0	0	0	0	0	0	26	0	1	0
## 10	0	0	0	0	0	0	0	0	0	0	0	30	0	1	0
## 11	0	0	0	0	0	0	0	0	0	0	0	26	0	0	0
##	CRAG	HVMS	LCKL	RUFF	FB59	FB83	FB02	C834	BBMB	LDSL	<NA>	MCMA	PN06	F276	FB24
## 1	4	1	10	1	86	35	81	24	4	5	0	10	1	9	55
## 2	1	0	0	2	44	43	42	13	1	0	1	14	0	13	37
## 3	5	2	0	5	36	42	32	45	3	3	0	13	0	20	13
## 4	3	3	0	3	98	69	69	66	3	3	0	39	0	65	0

## 5	0	2	0	3	44	38	50	40	2	3	0	0	0	21	0
## 6	0	2	0	3	0	14	55	26	2	2	0	0	0	26	0
## 7	0	10	0	0	0	0	79	56	0	1	0	0	1	65	0
## 8	0	13	2	0	0	0	74	64	0	0	0	0	0	77	0
## 9	0	10	0	0	0	0	43	43	0	0	0	0	0	53	0
## 10	0	8	1	0	0	0	57	60	0	0	0	0	0	83	0
## 11	0	4	0	0	0	0	13	19	0	0	0	0	0	36	0
##	FB35	F182	DRSN	<NA>	F128	F131	DIPT	SLMS	2SDN	<NA>	BBLN	BTLN	CHK2	ETMA	<NA>
## 1	14	55	26	0	40	107	2	2	1	0	1	2	1	2	0
## 2	16	70	37	0	69	120	7	0	1	2	2	2	1	1	0
## 3	12	41	28	0	58	55	5	0	0	0	1	1	0	6	0
## 4	11	76	11	0	104	127	5	0	0	0	1	1	0	1	0
## 5	9	39	15	0	66	64	0	0	0	0	0	2	0	3	0
## 6	8	37	22	0	52	67	0	0	0	0	1	1	0	1	0
## 7	23	47	21	0	94	122	0	0	0	0	5	0	0	2	0
## 8	25	59	31	0	103	106	0	0	0	0	4	0	0	0	0
## 9	25	41	22	0	47	70	0	0	0	0	0	0	0	0	0
## 10	24	51	0	0	59	93	0	0	0	0	1	0	0	0	0
## 11	6	17	0	0	39	42	0	0	0	0	1	0	0	0	0
##	HNBT	<NA>	JAGG	JIG3	KMBT	LOBE	MLTS	<NA>	<NA>	<NA>	<NA>	<NA>	SHOT	SURR	TFMS
## 1	2	0	2	2	1	2	1	0	0	0	0	0	1	2	2
## 2	0	0	1	3	0	1	1	0	0	0	0	0	3	1	0
## 3	1	0	0	2	0	0	2	0	0	0	0	0	2	0	0
## 4	0	0	0	1	0	0	1	0	0	1	0	0	2	0	0
## 5	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
## 6	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
## 8	3	0	0	3	0	0	2	0	0	1	0	0	0	0	0
## 9	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
## 10	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	TSMV	<NA>	<NA>	FB17	F110	F191	FB73	<NA>	<NA>	PSD2	PSDZ	<NA>	HSNS	<NA>	<NA>
## 1	3	0	0	14	26	10	8	0	0	2	1	0	5	0	0
## 2	5	0	0	30	23	16	11	0	0	0	0	0	1	0	0
## 3	4	0	0	9	24	12	2	0	0	0	0	0	1	0	1
## 4	8	0	0	14	37	11	13	0	0	0	0	0	0	0	0
## 5	6	0	0	14	41	0	5	0	0	0	0	0	2	0	1
## 6	1	0	0	21	22	0	0	0	0	0	0	0	1	0	0
## 7	5	0	0	5	40	0	0	0	0	0	0	0	1	0	0
## 8	19	0	0	0	41	0	0	0	0	0	0	0	6	0	0
## 9	11	0	0	0	25	0	0	0	0	0	0	0	2	0	1
## 10	3	0	0	0	31	0	0	0	0	1	0	0	8	0	1
## 11	4	0	0	0	16	0	0	0	0	0	0	0	5	0	1
##	<NA>	ETSC	<NA>	<NA>	<NA>	LGSC	<NA>	<NA>	MTMN	NLPS	<NA>	<NA>	<NA>	F183	<NA>
## 1	0	1	0	0	0	1	0	0	1	1	0	0	0	20	0
## 2	0	0	1	0	0	0	0	0	14	0	6	0	1	28	2
## 3	0	0	0	1	0	0	1	0	0	0	0	0	0	31	1
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	45	2
## 5	2	0	0	0	0	0	0	0	0	0	3	1	2	24	0
## 6	1	0	0	0	0	0	0	0	0	1	0	0	0	25	0
## 7	7	0	0	0	0	0	0	0	0	2	5	0	0	1	0
## 8	1	0	0	0	0	0	0	0	0	1	19	0	0	0	0
## 9	7	0	0	0	0	0	0	0	0	1	5	1	0	0	0
## 10	0	0	0	1	0	0	0	0	0	1	2	1	0	0	0

## 11	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
##	F114	C791	FB26	FB34	F180	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	SCOR
## 1	63	11	23	37	10	0	0	0	0	0	0	0	0	0	1
## 2	61	0	14	0	44	0	0	0	0	0	0	1	0	0	0
## 3	38	0	17	0	12	0	0	0	0	0	0	0	0	0	0
## 4	66	0	72	0	7	0	1	1	0	0	1	0	0	1	0
## 5	44	0	0	0	8	0	0	0	0	0	1	1	0	0	0
## 6	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	27	0	0	0	3	1	1	1	0	0	0	0	0	0	0
## 8	32	0	0	0	5	0	0	1	0	0	1	0	0	0	0
## 9	10	0	0	0	2	0	0	0	0	0	0	0	0	0	0
## 10	11	0	0	0	2	0	0	0	0	0	0	0	0	0	0
## 11	18	0	0	0	1	0	0	0	0	0	0	0	0	0	0
##	SPIK	FJSL	F117	<NA>	<NA>	ELFF	PN04	<NA>	TTM3	<NA>	LNST	<NA>	<NA>	<NA>	<NA>
## 1	5	1	75	0	0	14	5	0	1	0	1	0	0	0	0
## 2	0	0	34	0	0	6	2	0	1	0	1	0	0	0	0
## 3	0	0	75	0	0	3	0	0	2	0	0	0	0	0	0
## 4	0	0	139	0	0	5	0	0	1	0	0	0	0	0	0
## 5	0	0	15	0	0	5	0	0	5	0	1	0	0	0	0
## 6	0	2	0	0	0	0	0	0	1	0	1	0	0	0	0
## 7	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0
## 8	0	1	0	0	0	0	0	0	3	0	1	0	0	0	0
## 9	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
## 10	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
## 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	FB39	CMRS	CONC	CONS	F163	F181	HAIR	HITS	MSQ2	RTMW	<NA>	SPGT	TABB	MDNK	KNOB
## 1	24	1	2	2	2	9	4	5	3	11	0	1	5	4	10
## 2	12	1	0	3	81	55	10	0	5	16	0	2	7	2	13
## 3	0	0	0	2	41	48	2	0	1	3	0	0	2	0	0
## 4	0	10	0	5	106	113	14	5	5	10	0	0	3	0	0
## 5	0	4	0	3	18	53	9	1	0	6	0	0	1	2	0
## 6	0	22	0	4	0	42	11	20	6	11	0	0	2	10	0
## 7	0	19	0	0	0	53	19	20	3	5	0	0	3	43	0
## 8	0	15	0	0	0	17	19	15	0	18	0	0	3	4	0
## 9	0	18	0	0	0	0	14	17	0	12	0	0	0	0	0
## 10	0	18	0	0	0	0	19	15	0	18	0	0	0	0	0
## 11	0	12	0	0	0	0	8	12	0	2	0	0	0	0	0
##	<NA>	<NA>	NIK2	<NA>	<NA>	BFWT	JAWS	<NA>	<NA>	<NA>	<NA>	ALHK	LHLV	<NA>	FB06
## 1	0	0	2	0	0	6	9	0	0	0	0	4	1	0	81
## 2	0	0	2	0	0	0	0	0	1	0	0	2	0	0	66
## 3	0	0	0	0	0	0	0	0	1	0	0	2	0	0	43
## 4	0	0	0	0	0	0	0	0	0	0	0	3	1	0	123
## 5	0	1	0	0	0	0	0	0	0	0	0	6	0	0	57
## 6	0	0	1	0	0	0	0	0	0	0	0	3	0	0	69
## 7	0	0	0	0	0	0	0	0	0	0	0	3	3	0	14
## 8	0	0	1	0	0	0	0	0	0	0	0	4	1	0	0
## 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	<NA>	<NA>	FB87	<NA>	CKB2	1832	<NA>	<NA>	<NA>	SOLB	TCTV	IKNO	F101	<NA>	<NA>
## 1	0	0	21	0	6	10	0	0	0	19	8	4	99	0	0
## 2	0	0	56	0	0	14	2	61	0	18	19	21	103	0	0
## 3	0	0	39	0	0	0	1	37	0	18	7	38	77	0	0
## 4	0	0	43	0	0	0	6	141	0	36	2	28	116	0	0

## 5	0	0	27	0	0	0	5	113	0	36	19	0	51	0	0
## 6	0	0	12	0	0	0	14	61	0	21	7	0	23	0	0
## 7	0	0	34	0	0	0	21	63	0	31	15	0	0	0	0
## 8	0	0	41	0	0	0	0	51	0	36	7	0	0	0	0
## 9	0	0	31	0	0	0	0	6	0	26	11	0	0	0	0
## 10	0	0	39	0	0	0	0	0	0	26	8	0	0	0	0
## 11	0	0	25	0	0	0	0	0	0	17	2	0	0	0	0
##	<NA>	HFLT	ZENN	<NA>	<NA>	AOTA	<NA>	<NA>	<NA>	<NA>	<NA>	F254	<NA>	MPTB	<NA>
## 1	0	2	12	0	0	2	0	0	0	0	0	2	0	5	0
## 2	1	0	1	0	1	0	1	0	0	0	0	0	0	1	0
## 3	1	8	0	0	0	1	3	0	0	0	0	5	0	7	0
## 4	0	2	0	0	0	1	5	0	0	0	0	1	0	45	0
## 5	1	8	0	0	0	3	3	0	0	0	0	7	0	33	0
## 6	1	7	0	0	0	0	2	0	0	0	0	25	0	28	0
## 7	1	13	0	0	0	0	0	0	0	0	0	20	0	47	0
## 8	1	0	0	0	0	0	5	0	0	0	0	34	0	45	0
## 9	1	0	0	0	0	0	2	0	0	0	0	24	0	29	0
## 10	1	0	0	0	0	0	6	0	0	0	0	33	0	31	0
## 11	0	0	0	0	0	0	6	0	0	0	0	23	0	14	0
##	SHTC	TRIF	<NA>	<NA>	PHNE	PN10	PNSN	<NA>	LUMP	BEGR	MOCH	F116	SLIF	OTH_604	
## 1	1	2	0	0	4	4	3	0	6	9	9	14	1		1
## 2	1	2	0	0	5	0	0	3	0	36	7	3	0		0
## 3	13	0	0	0	2	3	1	1	0	58	0	0	0		0
## 4	67	1	0	0	0	2	0	2	0	77	0	0	0		0
## 5	18	0	0	0	0	0	0	0	0	32	0	0	0		0
## 6	7	1	0	0	0	0	0	1	0	35	0	0	0		0
## 7	0	2	0	0	0	0	0	7	0	56	0	0	0		0
## 8	0	0	0	0	0	0	0	2	0	71	0	0	0		0
## 9	0	1	0	0	0	0	0	1	0	255	0	0	0		0
## 10	0	3	0	0	0	0	0	0	0	30	0	0	0		0
## 11	0	0	0	0	0	0	0	0	0	0	0	0	0		0
##	THOR	F192	F194	MCM2	CATR	LFLA	OTH_199	TN3N	MTSS	SIMP	BRDO	RPPL	DTHB	GTFG	
## 1	3	16	12	2	3	7	1	1	4	2	4	4	1		2
## 2	5	24	24	1	1	0	0	0	13	4	17	0	0		2
## 3	0	38	31	0	1	0	0	0	4	0	3	0	0		2
## 4	0	62	61	0	1	2	0	0	3	0	17	0	0		2
## 5	0	9	18	0	0	0	0	0	7	0	5	0	0		0
## 6	0	0	17	0	0	0	0	0	0	6	0	0	0		1
## 7	0	0	23	0	0	0	0	0	3	7	0	0	3		0
## 8	0	0	32	0	1	0	0	0	1	12	0	0	0		1
## 9	0	0	47	0	0	0	0	0	5	3	0	0	0		0
## 10	0	0	17	0	0	0	0	0	4	3	0	0	1		0
## 11	0	0	0	0	0	0	0	0	1	3	0	0	0		0
##	UPBK	MNIK	C652	THMN	RY34	TBTN	CCL4	F172	L106	C391	BTHV	NKNN	PNKD	C754	RTMC
## 1	1	3	100	3	6	2	14	2	1	24	1	2	4	13	4
## 2	1	0	110	1	5	0	0	5	1	11	2	1	0	0	0
## 3	1	6	7	0	9	2	0	0	1	0	0	1	0	0	0
## 4	0	3	0	0	62	0	0	0	0	0	0	2	1	0	0
## 5	0	5	0	0	41	0	0	0	2	0	0	0	1	0	0
## 6	0	2	0	0	25	0	0	0	1	0	0	0	0	0	0
## 7	2	0	0	0	46	0	0	0	3	0	0	0	0	0	0
## 8	1	0	0	0	51	0	0	0	0	0	0	0	1	0	0
## 9	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0
## 10	1	0	0	0	35	0	0	0	0	0	0	0	0	0	0

## 11	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0
##	WLDC	F149	C595	C091	LEMS	C991	FB99	LBMA	PNTH	HNSC	LIWB	LCDB	TTOO	TWHN	LWMN
## 1	2	6	65	1	1	15	15	16	1	1	1	2	3	1	2
## 2	0	48	16	0	0	3	5	32	0	1	0	2	3	0	1
## 3	0	28	0	0	0	2	3	0	0	0	0	0	0	0	2
## 4	4	46	0	0	0	14	104	0	0	0	0	0	0	1	3
## 5	0	51	0	0	0	9	2	0	0	0	0	0	0	1	3
## 6	0	30	0	0	0	38	10	0	0	0	0	0	0	1	0
## 7	1	74	0	0	0	36	0	0	0	0	0	0	0	1	0
## 8	2	46	0	0	0	33	0	0	0	0	0	0	0	4	0
## 9	2	22	0	0	0	14	0	0	0	0	0	0	0	0	0
## 10	2	15	0	0	0	18	0	0	0	0	0	0	0	1	0
## 11	2	14	0	0	0	15	0	0	0	0	0	0	0	0	0
##	LFLG	LDMA	LNPf	WHIS	F141	FANT	LLIN	FTMW	GAFF	HAGR	PRFR	F174	FB58	MIDM	M145
## 1	1	4	1	1	1	1	1	1	1	1	7	1	1	1	12
## 2	1	6	3	0	20	0	0	0	0	0	8	30	35	0	9
## 3	1	1	5	1	8	0	0	0	0	0	5	37	42	0	6
## 4	1	9	7	0	79	0	0	1	0	0	4	71	90	1	1
## 5	1	4	3	0	91	0	0	1	0	0	2	20	29	0	8
## 6	1	11	7	1	32	0	0	0	0	0	1	20	10	0	9
## 7	0	12	14	0	47	0	0	0	0	0	13	1	0	1	17
## 8	0	17	24	0	68	0	0	0	0	0	10	0	0	0	31
## 9	0	12	10	0	4	0	0	0	0	0	3	0	0	0	8
## 10	0	0	17	0	13	0	0	0	1	0	1	0	0	3	10
## 11	0	0	11	0	5	0	0	0	0	0	3	0	0	0	5
##	MANT	ONIP	STDO	TLN2	PSDQ	HBMB	ALIN	HIPC	HIPM	BARE	BOXX	CURD	LET2	MOPS	MTWN
## 1	2	1	1	1	12	7	1	1	5	2	1	1	1	1	1
## 2	6	0	0	0	4	2	0	0	2	1	0	0	0	0	0
## 3	3	1	0	0	6	5	0	0	2	2	0	0	0	0	0
## 4	2	0	0	0	7	7	0	0	0	2	0	0	0	0	0
## 5	3	0	0	0	4	15	0	0	2	0	0	0	0	0	0
## 6	1	0	0	0	2	3	0	0	0	1	0	0	0	0	1
## 7	3	0	0	0	14	19	0	0	2	0	0	0	0	0	0
## 8	7	0	0	0	16	21	0	0	0	1	0	0	0	0	1
## 9	3	0	0	0	9	9	0	0	0	1	0	0	0	0	0
## 10	4	0	0	0	6	8	0	0	0	2	0	0	0	0	0
## 11	1	0	0	0	4	7	0	0	0	0	0	0	0	0	1
##	NEWT	SBTT	TPLS	PN05	BRCH	LYLU	TNSL	TRNO	SUFL	CATW	CLOX	MM49	MSUM	SCKB	THNM
## 1	1	1	2	2	1	1	1	1	1	2	2	2	6	1	1
## 2	0	0	0	3	0	0	0	0	3	1	0	0	2	0	1
## 3	2	0	1	2	0	0	0	0	3	0	0	1	1	0	2
## 4	1	0	1	1	0	1	1	0	1	0	0	0	0	0	0
## 5	1	0	0	4	0	0	0	0	3	2	0	0	1	0	2
## 6	0	0	1	0	0	0	0	0	1	2	0	0	1	0	1
## 7	0	0	1	2	0	0	0	0	0	6	0	0	1	0	3
## 8	3	0	0	3	0	0	0	0	1	4	0	0	0	0	3
## 9	1	0	0	0	0	0	0	1	2	2	0	0	0	1	1
## 10	3	0	0	0	0	0	0	0	1	2	0	0	0	0	1
## 11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	LBLS	LBSC	LBTY	LTET	HMLS	MM62	GWEN	KNNN	OTH_596	OTH_610	Q5LA	SPTL	F219	1452	
## 1	7	2	2	2	3	1	1	1	1	1	2	3	8	6	
## 2	1	0	1	0	0	0	1	3	0	0	5	7	14	2	
## 3	2	0	0	0	0	0	5	2	0	0	5	0	0	0	
## 4	3	0	0	0	0	0	0	3	0	0	2	0	12	0	

## 5	0	0	0	0	0	0	0	1	0	0	3	0	7	0	
## 6	0	0	0	0	0	0	0	1	0	0	0	0	14	0	
## 7	0	0	0	0	0	0	0	3	0	0	2	0	28	0	
## 8	0	0	0	0	0	0	0	4	0	0	2	0	27	0	
## 9	0	0	0	0	0	0	0	0	0	0	5	0	16	0	
## 10	0	0	0	0	0	0	0	1	0	0	4	0	30	0	
## 11	0	0	0	0	0	0	0	0	0	0	1	0	5	0	
##	CPS2	BTHS	F107	ANGL	GRIN	HMLA	PTHD	RCLA	SROM	SUMM	HNLN	KLNN	SKIT	GRC1	GRC2
## 1	5	1	3	1	1	1	1	1	1	1	1	1	1	1	1
## 2	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0
## 3	0	2	0	0	0	0	0	0	0	0	0	0	3	0	0
## 4	0	1	0	0	0	0	0	0	0	0	3	2	0	0	0
## 5	0	2	0	0	1	0	0	0	0	1	0	1	0	0	0
## 6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0
## 9	0	1	0	2	3	2	3	0	4	0	0	0	0	0	0
## 10	0	2	0	1	0	1	0	0	0	0	1	0	0	0	0
## 11	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
##	BTLE	CWM4	MSUC	USLN	RUBB	1535	MLOB	MLOC	OTH_487	OTH_441	F178	BOXR	OTH_422		
## 1	2	2	4	1	1	13	1	1	1	1	24	3	1		
## 2	2	1	3	0	0	20	1	1	0	0	92	2	1		
## 3	0	0	2	0	0	14	0	0	0	0	43	6	0		
## 4	0	0	1	0	0	0	4	0	0	0	143	37	0		
## 5	0	0	0	0	0	0	2	0	0	0	78	6	0		
## 6	0	0	0	0	0	0	0	0	0	0	75	27	0		
## 7	0	0	2	0	0	0	0	0	0	0	125	54	0		
## 8	0	0	0	0	0	0	0	0	0	0	82	63	0		
## 9	0	0	0	0	0	0	0	0	0	0	63	52	0		
## 10	0	0	0	0	0	0	0	0	0	0	61	41	0		
## 11	0	0	0	0	0	0	0	0	0	0	35	9	0		
##	OTH_373	THOC	OTH_601	F109	F127	MDLB	LBT1	BZPN	F231	F120	F124	LOTB	PPSL	LBHL	
## 1	1	2	1	7	8	1	1	1	1	2	2	1	1	1	
## 2	0	3	0	92	69	0	0	1	0	5	7	0	0	1	
## 3	0	0	0	68	75	2	0	0	1	0	0	0	0	0	
## 4	0	0	0	140	106	0	0	0	2	3	0	7	0	2	
## 5	0	0	0	83	53	0	0	0	11	2	0	2	0	2	
## 6	0	0	0	55	32	0	0	0	7	9	0	5	0	1	
## 7	0	0	0	147	104	1	0	0	1	0	0	4	0	1	
## 8	0	0	0	98	95	0	0	0	23	0	0	2	0	2	
## 9	0	0	0	47	53	0	0	0	4	0	0	6	3	1	
## 10	0	0	0	83	18	0	0	0	1	0	0	2	1	1	
## 11	0	0	0	44	0	0	0	0	0	0	0	0	0	0	
##	OTH_456	OTH_707	BUZM	JDLA	MTHS	OTH_591	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	
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## 3	0	0	0	0	0	0	1	1	0	0	0	0	0		
## 4	0	0	0	1	0	0	3	0	1	3	0	0	0		
## 5	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
## 6	0	0	0	1	0	0	1	0	0	0	0	0	0	0	
## 7	0	0	0	2	0	0	2	0	0	0	0	0	0	1	
## 8	0	0	0	0	0	0	2	0	0	0	0	0	0	0	
## 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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## 3	0	1	0	0	0	0	1	0	0	0	1	50	0	5	30
## 4	0	0	0	2	0	2	4	0	0	0	0	75	0	0	0
## 5	0	0	0	1	0	0	0	0	1	0	0	54	0	0	51
## 6	0	1	0	1	0	0	0	0	0	0	0	76	0	0	86
## 7	0	2	0	0	0	0	2	0	0	0	0	118	0	0	135
## 8	0	0	0	0	0	0	1	0	0	0	0	91	0	0	92
## 9	0	1	0	0	0	0	0	0	0	0	0	60	0	0	61
## 10	0	0	0	0	0	0	0	0	0	0	0	60	0	0	101
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## 3	3	36	0	0	0	73	0	25	26	0	0	0	0	0	0
## 4	48	128	0	0	0	100	0	30	41	0	0	0	6	1	0
## 5	34	83	0	0	0	70	0	0	26	1	0	1	0	1	0
## 6	13	61	0	0	0	62	0	0	24	1	0	1	0	1	0
## 7	0	102	0	0	0	128	0	0	1	0	0	0	0	0	0
## 8	0	102	0	0	0	110	0	0	0	0	0	0	0	0	0
## 9	0	66	0	0	0	46	0	0	0	0	0	0	0	1	0
## 10	0	48	0	0	0	79	0	0	0	0	0	0	0	3	0
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## 3	58	45	1	0	0	4	0	1	22	3	2	35	0	0	0
## 4	127	92	0	0	0	10	0	1	0	1	0	83	0	0	0
## 5	121	60	0	0	0	3	0	0	0	3	0	0	0	0	0
## 6	76	30	0	0	0	4	0	0	0	2	0	0	0	0	0
## 7	113	33	0	0	0	12	0	0	0	0	0	0	0	0	0
## 8	111	35	1	0	0	10	0	0	0	1	0	0	0	0	0
## 9	43	12	0	0	0	12	0	0	0	1	0	0	0	0	0
## 10	81	13	0	0	0	14	0	0	0	1	0	0	0	0	0
## 11	21	7	0	0	0	4	0	0	0	0	0	0	0	0	0
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## 3	0	0	77	0	0	2	3	2	1	0	0	0	0	0	4
## 4	0	0	197	0	0	2	0	3	0	0	0	0	0	0	7
## 5	0	0	87	0	0	3	0	4	0	0	0	0	2	0	0
## 6	0	0	97	0	0	0	0	0	1	0	0	0	0	0	0
## 7	0	0	116	0	0	4	0	0	0	0	0	0	0	0	0
## 8	0	0	116	0	0	7	0	0	0	0	0	0	0	0	0
## 9	0	1	60	0	0	8	0	0	0	0	0	0	0	0	0
## 10	0	0	81	0	0	4	0	0	0	0	0	0	0	0	0
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## 5	9	0	0	0	0	0	0	2	0	0	0	1	0	0	0
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## 7	0	1	1	1	0	0	0	1	0	0	0	1	0	0	0
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## 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 7	0	0	0	0	6	3	1	0	0	0	0	1	0	0	0
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## 3	0	0	0	1	0	2	0	4	0	40	24	6	1	0	0
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## 5	0	0	0	0	0	0	0	1	0	24	29	7	11	0	0
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## 10	0	0	0	1	0	0	1	4	0	83	21	0	14	0	0
## 11	0	0	0	0	0	0	0	0	0	33	0	0	7	0	0
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## 3	0	33	1	0	1	24	1	0	3	0	0	0	3	5	0
## 4	5	47	0	1	1	52	6	0	5	0	0	0	2	7	0
## 5	0	23	0	0	0	28	12	0	5	0	0	0	0	3	0
## 6	0	35	0	0	0	36	11	0	0	0	0	0	0	10	0
## 7	0	59	0	0	0	0	27	0	0	0	0	0	0	17	0
## 8	0	39	0	1	1	0	18	0	0	0	0	2	0	27	0
## 9	0	37	0	0	1	0	8	0	0	0	0	4	0	13	0
## 10	0	27	0	0	0	0	6	0	0	0	0	3	0	11	0
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## 9	0	0	8	2	0	0	2	2	2	0	0	3	0	7	0
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## 6	0	0	0	0	0	0	0	0	2	17	0	0	0	7	0
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## 4	0	0	1	0	0	0	0	0	1	0	0	0	0	2	5
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## 9	0	3	4	0	0	0	0	3	23	0	0	0	0	0	0
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## 3	1	1	2	2	64	34	1	1	1	4	47	23	2	1	1
## 4	0	0	0	0	105	67	0	0	0	23	78	85	19	0	0
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## 7	0	0	0	0	83	0	0	3	0	68	94	80	2	0	0
## 8	0	0	0	0	96	0	0	1	0	38	76	34	7	0	0
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## 10	0	0	0	0	70	0	0	4	0	30	87	0	6	0	0
## 11	0	0	0	0	39	0	0	2	0	13	37	0	1	0	0
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## 3	1	1	1	24	30	3	1	1	4	1	1	1	3	1	1
## 4	0	0	0	32	63	0	0	0	0	1	0	1	0	0	0

## 5	0	0	0	23	31	0	0	0	1	0	0	0	0	0	0
## 6	0	0	0	35	27	0	0	0	2	0	0	0	0	0	0
## 7	0	0	0	0	52	0	0	0	0	0	0	0	0	0	0
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## 9	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0
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## 11	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0
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## 3	13	1	1	17	1	1	2	25	11	2	3	16	18	27	10
## 4	8	0	0	55	1	1	18	150	94	34	0	77	103	140	0
## 5	0	1	0	15	0	0	1	63	30	1	0	15	42	113	0
## 6	1	1	0	0	0	0	2	39	0	0	0	0	53	72	0
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## 8	1	0	0	0	0	0	2	0	0	0	0	0	87	82	0
## 9	1	0	0	0	0	0	4	0	0	0	0	0	25	34	0
## 10	0	0	0	0	1	0	5	0	0	0	0	0	44	43	0
## 11	0	0	0	0	0	0	3	0	0	0	0	0	15	37	0
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## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	21	21	1	17	5	1	1	21	3	1	1	1	3	20	1
## 4	146	119	0	0	33	0	0	146	15	0	0	0	24	138	0
## 5	119	12	0	0	21	5	0	12	6	0	0	0	12	79	0
## 6	71	0	0	0	8	0	0	0	0	0	0	0	0	72	0
## 7	172	0	0	0	0	2	0	0	3	0	0	0	0	126	0
## 8	148	0	0	0	0	4	0	0	4	0	0	0	0	75	0
## 9	66	0	0	0	0	6	0	0	4	0	0	0	0	20	0
## 10	67	0	0	0	0	2	0	0	0	0	0	0	0	24	0
## 11	40	0	0	0	0	0	0	0	0	0	0	0	0	11	0
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## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	13	8	1	3	2	1	1	1	1	1	1	1	1	2	1
## 4	31	0	0	0	1	0	3	0	2	0	2	4	3	0	1
## 5	17	0	0	0	0	0	1	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	1	0	1	0	1	1	0	0	0
## 8	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
## 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
## 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
## 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 3	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1
## 4	0	0	0	0	1	1	0	3	0	0	0	0	7	0	0
## 5	0	0	0	0	2	1	0	0	1	0	0	0	10	1	0
## 6	0	0	0	0	0	0	0	0	0	0	0	2	15	4	0
## 7	0	0	0	0	10	0	0	5	0	0	0	0	20	0	3
## 8	2	0	0	0	16	0	0	3	0	0	0	0	18	0	6
## 9	0	0	0	1	4	0	0	3	0	0	0	1	11	0	8
## 10	0	0	0	0	4	0	0	6	0	0	0	0	10	0	6

## 11	0	0	0	0	6	0	0	0	0	0	0	0	5	0	1
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## 3	1	2	1	1	1	1	1	1	1	1	1	1	0	0	0
## 4	56	2	0	0	0	0	0	1	3	0	50	52	2	1	1
## 5	43	2	0	0	0	0	0	0	0	0	42	43	1	1	0
## 6	60	0	0	0	0	0	0	1	0	0	55	49	1	3	0
## 7	73	0	0	0	0	0	0	2	0	0	77	107	0	0	1
## 8	68	1	0	0	0	0	0	0	0	0	86	100	0	5	1
## 9	46	1	0	0	0	0	0	0	0	0	72	63	0	3	0
## 10	59	1	0	0	0	0	0	0	0	0	90	78	0	0	0
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## 5	0	0	0	0	2	6	0	21	19	0	1	1	2	0	5
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## 7	0	1	0	1	0	0	2	10	43	2	2	5	0	0	3
## 8	0	1	0	0	0	0	1	39	53	3	4	4	0	0	7
## 9	0	0	0	0	0	0	1	19	24	0	2	1	0	0	5
## 10	0	0	0	0	0	0	3	31	27	0	3	0	0	0	1
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## 5	0	1	50	0	0	58	0	113	3	1	63	0	0	0	0
## 6	0	2	34	0	0	13	0	65	0	0	41	0	0	0	2
## 7	0	4	120	0	0	0	0	66	0	0	0	0	1	0	1
## 8	0	0	106	0	0	0	0	77	0	0	0	0	0	3	0
## 9	0	0	23	0	0	0	0	35	0	0	0	0	0	1	1
## 10	0	0	0	0	0	0	0	54	0	0	0	0	0	0	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	118	5	15	17	1	1	20	1	1	2	7	5	64	81	37
## 5	110	9	5	3	1	0	0	0	0	0	5	1	86	2	12
## 6	62	2	4	6	0	1	2	0	0	0	12	0	64	8	0
## 7	92	0	0	11	0	0	1	0	0	1	31	0	110	39	0
## 8	91	0	0	15	0	0	28	0	0	0	15	0	93	55	0
## 9	54	0	0	0	0	0	0	0	0	0	4	0	23	26	0
## 10	88	0	0	5	0	0	0	0	0	1	6	0	39	63	0
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## 4	15	18	16	11	7	6	1	2	1	4	1	4	5	1	1

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## 7	48	45	0	0	30	27	1	1	0	0	1	0	0	0	2
## 8	20	18	0	0	18	26	0	2	0	7	0	0	0	0	0
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## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 9	0	0	0	0	0	0	0	0	0	1	10	0	0	0	0
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## 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 7	0	18	0	0	4	2	2	0	0	0	0	2	0	2	0
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## 7	0	0	0	3	0	0	0	0	0	0	1	3	0	0	0
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## 4	4	1	1	1	1	1	3	2	2	1	1	1	2	0	0
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## 6	0	0	0	0	0	0	3	11	4	0	0	0	0	0	0
## 7	0	1	0	0	0	0	18	23	3	0	2	0	0	0	0
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## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	39	0
## 7	0	0	0	0	0	0	0	3	0	2	1	0	0	84	0
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## 11	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 5	9	42	15	2	1	1	1	1	43	38	55	3	2	40	1
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## 7	0	11	0	12	0	4	0	0	138	145	0	2	1	40	0
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## 10	0	0	0	7	9	2	0	0	8	41	0	0	0	0	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 5	2	2	1	18	4	2	54	62	53	30	6	1	1	11	2
## 6	1	1	1	19	0	0	72	78	68	61	1	0	0	8	0
## 7	0	0	0	98	0	0	120	0	131	138	0	0	4	0	0
## 8	0	2	0	61	0	0	131	0	84	86	0	0	0	0	0
## 9	0	2	0	44	0	0	76	0	48	28	0	0	0	0	0
## 10	0	4	0	63	0	0	114	0	56	65	0	0	0	7	0
## 11	0	0	0	23	0	0	33	0	23	35	0	0	0	5	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	3	1	1	1	1	1	1	1	1	5	1	1	1	3	2
## 6	4	0	0	0	1	0	0	0	0	1	3	0	1	1	3
## 7	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0
## 8	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0
## 9	0	0	0	0	6	1	0	0	0	0	0	0	0	0	0
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## 11	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 5	2	7	14	1	1	1	19	2	1	1	1	1	1	1	7
## 6	8	43	3	0	0	0	45	4	0	0	0	0	0	0	6
## 7	20	0	0	0	1	0	102	2	0	0	0	0	0	0	0
## 8	18	0	0	3	2	0	102	2	0	0	1	1	0	0	0
## 9	17	0	0	1	1	0	78	2	0	0	2	0	0	0	0
## 10	11	0	0	1	1	0	100	8	0	0	2	0	0	0	0
## 11	8	0	0	1	0	0	48	7	0	0	2	0	0	0	0
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## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	22	1	2	1	1	1	3	2	2	2	1	1	1	2	3
## 6	70	0	1	1	1	0	4	27	5	6	0	0	0	39	17
## 7	132	0	5	0	2	0	4	6	0	17	0	0	0	39	45
## 8	106	0	0	2	2	0	0	0	0	6	0	0	0	52	30
## 9	63	0	0	3	0	0	0	0	0	6	0	0	0	40	32
## 10	88	0	0	1	1	0	0	0	0	5	0	0	0	71	32

## 11	7	0	0	0	0	0	0	0	0	1	0	0	0	25	16
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## 6	0	8	0	2	0	0	1	0	0	1	1	14	2	4	12
## 7	0	57	0	20	0	0	0	0	0	0	0	0	2	13	29
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## 7	0	0	5	3	1	0	0	0	0	94	66	10	60	1	138
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## 7	3	15	17	0	0	2	3	3	0	0	0	33	4	0	1
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## 6	4	4	18	9	2	4	1	4	3	1	1	3	10	19	3
## 7	4	3	56	5	0	4	0	10	2	0	0	2	0	0	0
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## 9	1	0	21	11	0	6	1	2	2	0	0	4	0	0	0
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## 6	9	3	10	2	1	1	23	1	1	1	1	1	1	1	4
## 7	18	2	3	6	0	0	50	0	0	0	1	0	0	2	58
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## 10	25	0	0	0	0	35	3	65	49	0	0	0	60	18	66
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## 8	6	4	2	3	0	0	117	109	5	0	0	0	0	0	0
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## 7	1	1	1	2	1	1	1	1	1	1	1	1	1	2	4
## 8	0	0	0	4	0	0	2	0	0	0	0	0	0	7	3
## 9	0	0	0	14	0	0	0	1	0	0	0	0	0	0	2
## 10	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0

## 11	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 7	1	1	4	5	1	20	41	31	5	14	1	6	5	1	1
## 8	1	0	5	18	4	77	64	0	8	33	0	9	11	0	0
## 9	0	0	6	5	2	30	8	0	2	17	0	2	3	0	0
## 10	2	0	5	4	8	74	28	0	6	25	0	1	8	0	0
## 11	0	0	3	0	3	37	15	0	4	11	0	0	1	0	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 7	30	28	19	19	1	14	16	14	1	1	1	3	23	4	1
## 8	18	98	0	0	0	46	42	46	0	0	0	0	53	1	0
## 9	2	53	0	0	0	13	18	17	0	1	0	0	21	1	1
## 10	0	47	0	0	0	0	20	16	0	0	0	0	30	3	1
## 11	0	27	0	0	0	0	12	11	0	0	0	0	19	4	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 7	1	1	2	2	1	1	3	5	2	1	1	1	4	1	6
## 8	0	0	1	4	2	0	1	14	0	1	0	0	0	1	14
## 9	3	3	0	6	2	0	0	24	0	0	0	0	0	3	1
## 10	2	1	0	2	6	0	0	30	0	0	0	0	0	4	2
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 7	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0
## 8	6	6	7	0	0	6	2	1	1	1	7	2	1	6	4
## 9	0	0	3	0	0	7	1	1	0	0	0	0	0	0	0
## 10	0	2	6	0	0	0	0	2	0	0	0	0	0	0	0
## 11	0	3	7	0	1	0	0	0	0	0	0	0	0	3	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	27	5	6	16	1	57	1	2	2	3	2	3	1	19	1
## 9	4	2	11	0	2	53	0	0	0	1	0	0	1	13	0
## 10	0	4	12	0	0	42	0	0	0	1	0	0	0	6	0
## 11	0	2	1	0	2	14	0	0	0	1	0	0	0	6	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 8	1	1	1	1	1	1	1	1	1	1	1	8	24	35	66
## 9	0	0	0	0	0	0	0	0	0	0	0	4	4	27	70
## 10	0	0	0	0	0	0	0	0	0	0	0	3	0	0	57
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## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 8	1	2	1	5	1	5	5	38	1	1	27	10	51	66	8
## 9	0	0	0	0	0	0	0	0	0	3	0	0	48	55	0
## 10	0	0	0	4	0	4	0	0	0	1	0	0	72	46	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 9	1	0	0	0	0	0	0	1	6	7	5	0	1	0	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 9	0	0	0	0	0	1	8	0	5	0	0	0	0	5	3
## 10	0	0	0	0	0	0	0	0	4	0	0	0	1	3	0

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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	3	1	3	2	1	1	2	1	1	18	2	2	6	2	3
## 9	0	0	1	1	3	0	0	0	0	50	4	4	2	0	0
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## 11	0	0	1	0	2	0	0	1	0	28	0	0	0	0	0
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## 9	8	0	0	0	6	0	49	0	2	1	1	9	7	26	11
## 10	5	0	1	0	0	2	55	0	2	0	0	6	12	39	21
## 11	6	0	7	0	0	2	34	0	1	0	0	3	4	6	5
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	1	1	3	1	1	1	1	1	1	2	1	1	1	1	1
## 9	0	1	3	0	0	2	0	1	0	0	0	0	0	0	0
## 10	0	1	1	0	1	0	0	0	0	0	0	0	0	0	1
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
## 9	0	1	0	0	2	2	1	1	1	1	1	1	1	9	57
## 10	0	6	0	0	0	1	2	1	0	0	0	0	0	0	65
## 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
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## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	15	1	1	1	1	39	51	61	18	30	19	33	18	1	5
## 10	32	0	0	0	0	0	90	78	30	39	13	73	0	0	1
## 11	4	0	0	0	0	0	30	26	26	26	0	35	0	0	2
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	1	6	1	42	60	3	4	2	47	16	13	2	4	1	6
## 10	0	8	0	77	0	0	2	1	88	25	31	0	4	1	0
## 11	0	1	0	45	0	0	1	0	38	7	11	0	0	0	0
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## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	5	3	1	2	1	2	29	3	2	12	1	1	2	2	4
## 10	5	0	0	0	0	0	44	6	0	20	0	2	0	2	0
## 11	1	1	0	0	0	0	7	2	0	9	0	0	0	4	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	2	2	2	1	1	1	2	1	2	1	1	1	1	4	6
## 10	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0

## 11	0	1	0	0	0	0	0	0	0	3	0	0	0	1	0
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## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	1	2	1	1	6	1	1	1	1	1	1	1	1	1	3
## 10	0	0	0	1	0	1	0	2	0	0	0	0	0	0	1
## 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	1	1	2	2	2	1	4	3	1	1	1	1	1	2	2
## 10	0	0	0	2	2	0	1	1	1	1	0	0	0	0	0
## 11	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	2	2	2	1	3	1	1	1	1	1	1	3	1	2	1
## 10	0	1	0	0	2	1	3	1	0	0	0	0	0	4	1
## 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0										

## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	1	8	1	1	1	1	1	1	4	6	13	1	1	10	1
## 10	0	52	0	1	0	1	0	0	17	0	43	4	0	55	0
## 11	0	30	0	1	0	0	0	0	17	0	12	6	0	35	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	1	4	1	2	2	2	3	2	3	1	1	12	1	1	1
## 10	4	8	0	4	1	3	3	3	15	1	0	71	0	0	6
## 11	2	0	0	1	0	0	3	0	6	0	0	40	0	0	3
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	1	1	1	3	1	4	2	1	1	1	16	1	3	1	1
## 10	0	0	0	40	10	2	9	1	4	1	60	0	5	5	1
## 11	0	0	0	16	5	0	9	2	3	0	29	0	6	1	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	1	1	2	1	1	1	2	1	1	2	1	2	1	0	0
## 10	1	0	7	5	0	0	34	2	0	18	0	0	6	1	1
## 11	0	0	6	0	0	0	10	2	0	12	0	0	2	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 10	1	1	1	1	1	1	1	28	2	13	2	4	3	6	2

##	11	0	0	0	0	0	0	0	21	0	3	0	0	2	6	0
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##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	10	1	3	1	1	86	1	1	1	3	1	19	77	71	35	3
##	11	0	1	0	0	47	0	0	0	4	0	0	27	35	29	0
##		<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	10	1	4	1	1	87	2	30	2	2	2	1	54	3	56	7
##	11	0	4	0	0	25	0	11	0	0	0	0	27	0	40	6
##		<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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##	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	10	1	3	3	1	1	1	1	12	2	3	17	1	1	1	1
##	11	0	4	0	0	0	0	0	2	1	1	0	0	0	0	0
##		<														

## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 10	1	7	1	1	2	2	2	1	1	1	3	1	2	1	1
## 11	0	4	0	0	0	0	1	0	0	0	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 10	1	2	1	4	4	7	6	1	1	2	2	2	3	3	2
## 11	0	0	0	3	1	3	5	0	0	0	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 10	32	45	7	7	1	1	3	1	1	20	6	3	1	33	5
## 11	8	41	0	1	0	0	0	0	0	23	0	1	2	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 10	25	2	2	1	2	1	3	3	4	3	3	3	1	4	3
## 11	17	1	0	1	9	0	13	0	9	0	10	0	0	7	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 10	1	1	27	11	32	8	1	3	3	6	1	36	6	1	1

## 11	0	1	23	17	29	0	0	6	3	0	0	28	5	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 10	8	5	2	8	1	1	1	1	1	6	1	2	7	1	2
## 11	16	12	0	11	0	0	0	0	0	22	0	0	6	0	3
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 10	1	1	1	1	1	1	1	1	1	2	2	1	1	3	1
## 11	0	0	0	0	0	0	0	1	1	0	0	0	0	2	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 10	1	1	1	9	1	1	1	1	1	2	1	1	1	1	1
## 11	0	0	0	27	0	0	0	0	0	2	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0												

[illegible]

```
## 11      1      1      1      1      6      1      1      1
```

```
# Transforming into binary matrices
```

```
p2y <- as.matrix(p2y); p2y[which(p2y>=1)] = 1; p2y[which(p2y<1)] = 0
```

```
# ----- 7 sets of 3 year increments-----
```

```
# Make a list of 3 years per dataframe
```

```
sample_data$ThreeYearIncrement <- cut(sample_data$Year, breaks = seq(min(sample_data$Year), max(sample_data$Year), length.out = 7))
```

```
list_threeyears <- split(sample_data, sample_data$ThreeYearIncrement)
```

```
# Apply the count_instances function to each two years
```

```
instances_per_threeyear <- lapply(list_threeyears, count_instances)
```

```
# Convert the list of counts to a data frame
```

```
p3y <- do.call(rbind, instances_per_threeyear)
```

```
p3y
```

```
##      FB41 FB05 FB36 FB38 FB55 FB96 FB98 F108 F153 FB15 FB23 FB78 FB93 F155 FB01
## 1      67    109   136   151   118    57    38    40    53    50    68    82    63   170   140
## 2      0     80    92    90    87    31     0    33    47    95     0    69    75   113    85
## 3      0    144    83     0   182    24     0    44    50   107     0    80   142   153   163
## 4      0     77    74     0   102     0     0    33    30    82     0    63    60    84     9
## 5      0     49    74     0   103     0     0    42    56   138     0    90   109   157     0
## 6      0      7    56     0    62     0     0    65    48    58     0    87    57    75     0
## 7      0      0     0     0   107     0     0    37    67    72     0    70    28   101     0
##      FB43 FB92 F118 F122 FB29 <NA> FB54 FB71 FB90 F100 F119 FB14 FB27 <NA> FB57
## 1      60   125   203   165    89     0   229    87   221    88   142   112    97     0   103
## 2      52    94   106     0    42     0   140     0   114    66   135    83    81     0     0
## 3      79   152   170     0     0     0   180     0   201   104   147   268   115     0     0
## 4      43    83   110     0     0     0   141     0   146    68    48    43    83     0     0
## 5     113   155   142     0     0     0   105     0   231     4     0    14    70     0     0
## 6      51    87    91     0     0     0    80     0    78     0     0     0    53     0     0
## 7       7    95     3     0     0     0   112     0    88     0     0     0    84     0     0
##      FB66 FB76 FB94 F112 FB12 FB03 <NA> F106 FB44 FB62 F175 FB10 FB46 FB75 FB79
## 1      92    89   131    55    66    92     0   119   106   111   145   137   123    90   118
## 2      94    90   102     0     0    99     0   114    47     4   123    91    83    67   112
## 3     201   194   264     0     0   199     0   152    36     0   200   140   139   137   114
## 4     105    93    49     0     0    11     0    72    33     0   129    86    13    97   101
## 5      71     0     0     0     0     0     0   138    36     0   167    84     0     3   172
## 6      39     0     0     0     0     0     0     0    45     0   104    59     0     0   120
## 7      33     0     0     0     0     0     0     0    55     0   125    62     0     0    81
##      FB60 FB13 F138 FB63 FB07 FB11 F132 FB25 F102 F111 F130 F134 F136 F154 F160
## 1      32    62   148   148   180   190    10   132    13    87     7    12    13    59    28
## 2       0   127    55    48   108   146     5    86     9   106     1    28    23    34    17
## 3       0   123   108    80   190   234     5    97    13    82     2    12     9     9    13
## 4       0    64    90    62    98   119     2    80     8     0     0    10     9    15    10
## 5       0    72   139    38   153   197     2    85    28     0     0    17     0    27     3
## 6       0     9    96     0    84    88     0    82    22     0     0    10     0     2     0
## 7       0     0   119     0   100    96     0    88    21     0     0     0     0    13     0
##      F162 <NA> FB20 FB65 HIQQ POOF FB28 <NA> FB09 FB33 ATNA CWM3 NKLN WTMA FB48
## 1      28     0   128   169    13     8    32     0   154   146     2    14     4    14    27
## 2      18     0    76    99     3     8    76     0    76    94     0    17     0     1    20
## 3      14     9   133   184    12     4   155     0   122   129     0     9     2     0    72
## 4       6     2   100   145     5     1    31     0   102   111     0     4     1     0    21
## 5       8     0   131   174    26     2    49     0    99   123     6    14    11     0    24
```

## 6	17	0	110	85	21	0	27	0	11	75	0	13	9	0	2
## 7	20	0	121	91	21	0	37	0	0	111	1	11	0	0	0
##	F105	1054	<NA>	FB32	49C3	49LA	<NA>	<NA>	<NA>	<NA>	F164	<NA>	KMSN	MIDF	5NK2
## 1	5	1	0	85	9	34	0	0	0	0	5	0	3	1	1
## 2	6	1	0	58	0	14	0	1	0	1	22	0	0	4	3
## 3	4	0	0	148	0	20	0	0	0	0	31	0	0	2	0
## 4	1	0	0	0	0	4	0	0	0	0	67	0	0	2	0
## 5	0	0	0	0	0	0	0	0	2	0	69	0	0	8	0
## 6	0	0	0	0	0	0	0	0	0	0	57	0	0	4	0
## 7	0	0	0	0	0	0	0	0	0	0	95	0	0	3	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	WTAB	<NA>	BTTV	<NA>	F147	<NA>	F237	<NA>	<NA>	FB84
## 1	0	0	0	0	0	2	0	14	0	5	0	17	0	0	91
## 2	0	0	2	0	0	0	0	7	0	6	4	14	0	0	73
## 3	0	0	1	0	2	0	0	0	0	0	14	55	0	1	91
## 4	0	0	0	0	1	1	0	0	0	0	7	40	0	0	0
## 5	0	1	1	0	8	2	0	0	0	0	10	131	0	0	0
## 6	0	0	1	0	2	0	0	0	0	0	0	39	0	1	0
## 7	0	0	0	0	0	0	0	0	0	0	0	56	0	1	0
##	CRAG	HVMS	LCKL	RUFF	FB59	FB83	FB02	C834	BBMB	LDL	LSMS	MCMA	PN06	F276	FB24
## 1	5	1	10	3	105	53	109	25	5	5	1	21	1	12	73
## 2	5	2	0	5	61	67	46	57	3	3	0	16	0	30	32
## 3	3	4	0	3	141	86	97	87	5	6	0	39	0	77	0
## 4	0	3	0	6	1	35	77	45	2	2	0	0	0	35	0
## 5	0	18	1	0	0	0	131	99	0	1	0	0	1	118	0
## 6	0	15	1	0	0	0	65	64	0	0	0	0	0	77	0
## 7	0	12	1	0	0	0	70	79	0	0	0	0	0	119	0
##	FB35	F182	DRSN	<NA>	F128	F131	DIPT	SLMS	2SDN	BBL2	BBLN	BTLN	CHK2	ETMA	<NA>
## 1	20	88	44	0	60	165	6	2	1	1	2	4	2	3	0
## 2	22	78	47	0	107	117	8	0	1	1	2	1	0	6	0
## 3	16	96	16	0	137	170	5	0	0	0	1	3	0	2	0
## 4	12	56	32	0	85	88	0	0	0	0	1	1	0	3	0
## 5	37	86	36	0	165	190	0	0	0	0	8	0	0	2	0
## 6	36	61	38	0	79	108	0	0	0	0	1	0	0	0	0
## 7	30	68	0	0	98	135	0	0	0	0	2	0	0	0	0
##	HNBT	<NA>	JAGG	JIG3	KMBT	LOBE	MLTS	<NA>	<NA>	<NA>	<NA>	<NA>	SHOT	SURR	TFMS
## 1	2	0	3	4	1	3	1	0	0	0	0	0	4	3	2
## 2	1	0	0	3	0	0	3	0	0	0	0	0	2	0	0
## 3	0	0	0	1	0	0	1	0	1	1	0	0	3	0	0
## 4	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0
## 5	3	0	0	1	0	0	2	0	0	0	0	1	1	0	0
## 6	1	0	0	2	0	0	1	0	0	1	0	0	0	0	0
## 7	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
##	TSMV	<NA>	<NA>	FB17	F110	F191	FB73	<NA>	<NA>	PSD2	PSDZ	<NA>	HSNS	<NA>	<NA>
## 1	6	0	0	33	35	18	14	0	0	2	1	0	5	0	0
## 2	6	0	0	20	38	20	7	0	0	0	0	0	2	0	1
## 3	14	0	0	22	55	11	18	0	0	0	0	0	1	0	1
## 4	1	0	0	27	45	0	0	0	0	0	0	0	2	0	0
## 5	15	0	0	5	63	0	0	0	0	0	0	0	6	0	0
## 6	20	0	0	0	43	0	0	0	0	0	0	0	3	0	1
## 7	7	0	0	0	47	0	0	0	0	1	0	0	13	0	2
##	<NA>	ETSC	<NA>	<NA>	<NA>	LGSC	<NA>	<NA>	MTMN	NLPS	<NA>	<NA>	<NA>	F183	THUB
## 1	0	1	0	0	0	1	0	0	15	1	0	0	0	33	1
## 2	0	0	1	1	0	0	1	0	0	0	6	0	1	46	2
## 3	1	0	0	0	0	0	0	0	0	0	1	1	2	56	2

## 4	2	0	0	0	0	0	0	0	0	1	2	0	0	38	0
## 5	7	0	0	0	0	0	0	0	0	3	22	0	0	1	0
## 6	8	0	0	0	0	0	0	0	0	1	7	1	0	0	0
## 7	0	0	0	2	0	0	0	0	0	1	2	1	0	0	0
##	F114	C791	FB26	FB34	F180	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	SCOR
## 1	100	11	31	37	23	0	0	0	0	0	0	0	0	0	1
## 2	62	0	23	0	43	0	0	0	0	0	0	1	0	0	0
## 3	96	0	72	0	9	0	1	1	0	0	2	1	0	1	0
## 4	33	0	0	0	6	0	0	0	0	0	0	0	0	0	0
## 5	53	0	0	0	8	1	1	1	0	0	1	0	0	0	0
## 6	16	0	0	0	2	0	0	1	0	0	0	0	0	0	0
## 7	29	0	0	0	3	0	0	0	0	0	0	0	0	0	0
##	SPIK	FJSL	F117	<NA>	<NA>	ELFF	PN04	<NA>	TTM3	<NA>	LNST	<NA>	<NA>	<NA>	<NA>
## 1	5	1	109	0	0	17	7	0	1	0	2	0	0	0	0
## 2	0	0	75	0	0	6	0	0	3	0	0	0	0	0	0
## 3	0	0	154	0	0	7	0	0	5	0	1	0	0	0	0
## 4	0	2	0	0	0	3	0	0	2	0	1	0	0	0	0
## 5	0	1	0	0	0	1	0	0	1	0	1	0	0	0	0
## 6	0	0	0	0	0	0	0	0	4	0	2	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
##	FB39	CMRS	CONC	CONS	F163	F181	HAIR	HITS	MSQ2	RTMW	<NA>	SPGT	TABB	MDNK	KNOB
## 1	36	2	2	4	41	33	9	5	4	15	0	3	9	4	16
## 2	0	0	0	3	83	79	7	0	5	15	0	0	5	2	7
## 3	0	10	0	8	112	122	16	5	5	15	0	0	3	0	0
## 4	0	26	0	4	12	86	18	21	6	12	0	0	3	12	0
## 5	0	24	0	0	0	70	28	25	3	11	0	0	6	47	0
## 6	0	28	0	0	0	0	24	27	0	24	0	0	0	0	0
## 7	0	30	0	0	0	0	27	27	0	20	0	0	0	0	0
##	<NA>	<NA>	NIK2	<NA>	<NA>	BFWT	JAWS	<NA>	<NA>	<NA>	<NA>	ALHK	LHLV	<NA>	FB06
## 1	0	0	3	0	0	6	9	0	0	0	0	6	1	0	109
## 2	0	0	1	0	0	0	0	0	2	0	0	2	0	0	81
## 3	0	0	0	0	0	0	0	0	0	0	0	5	1	0	158
## 4	0	1	1	0	0	0	0	0	0	0	0	7	0	0	91
## 5	0	0	1	0	0	0	0	0	0	0	0	7	4	0	14
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	<NA>	<NA>	FB87	<NA>	CKB2	1832	<NA>	F157	<NA>	SOLB	TCTV	IKNO	F101	<NA>	<NA>
## 1	0	0	35	0	6	17	0	18	0	28	14	9	141	0	0
## 2	0	0	81	0	0	7	3	80	0	27	20	54	138	0	0
## 3	0	0	54	0	0	0	8	176	0	55	4	28	135	0	0
## 4	0	0	28	0	0	0	17	139	0	38	24	0	55	0	0
## 5	0	0	57	0	0	0	21	104	0	56	22	0	0	0	0
## 6	0	0	49	0	0	0	0	16	0	37	11	0	0	0	0
## 7	0	0	64	0	0	0	0	0	0	43	10	0	0	0	0
##	VRIP	HFLT	ZENN	<NA>	CLAW	AOTA	<NA>	<NA>	<NA>	<NA>	<NA>	F254	<NA>	MPTB	<NA>
## 1	1	2	12	0	1	2	0	0	0	0	0	2	0	5	0
## 2	1	8	1	0	0	1	4	0	0	0	0	5	0	8	0
## 3	1	7	0	0	0	1	6	0	0	0	0	5	0	61	0
## 4	1	10	0	0	0	3	4	0	0	0	0	28	0	45	0
## 5	1	13	0	0	0	0	4	0	0	0	0	35	0	75	0
## 6	2	0	0	0	0	0	3	0	0	0	0	43	0	46	0
## 7	1	0	0	0	0	0	12	0	0	0	0	56	0	45	0
##	SHTC	TRIF	<NA>	<NA>	PHNE	PN10	PNSN	FEAT	LUMP	BEGR	MOCH	F116	SLIF	OTH_604	THOR
## 1	1	4	0	0	8	4	3	2	6	21	16	17	1	1	8

## 2	14	0	0	0	3	3	1	2	0	82	0	0	0		0	0
## 3	81	1	0	0	0	2	0	2	0	95	0	0	0		0	0
## 4	11	1	0	0	0	0	0	1	0	49	0	0	0		0	0
## 5	0	2	0	0	0	0	0	8	0	99	0	0	0		0	0
## 6	0	1	0	0	0	0	0	2	0	283	0	0	0		0	0
## 7	0	3	0	0	0	0	0	0	0	30	0	0	0		0	0
##	F192	F194	MCM2	CATR	LFLA	OTH_199	TN3N	MTSS	SIMP	BRDO	RPPL	DTHB	GTFG	UPBK	MNIK	
## 1	18	14	3	4	7		1	1	14	5	9	4	1	2	2	3
## 2	60	53	0	1	0		0	0	7	1	15	0	0	4	1	6
## 3	71	71	0	1	2		0	0	6	0	20	0	0	2	0	7
## 4	0	25	0	0	0		0	0	4	6	2	0	0	1	0	3
## 5	0	39	0	0	0		0	0	4	13	0	0	3	1	2	0
## 6	0	63	0	1	0		0	0	5	9	0	0	0	0	1	0
## 7	0	17	0	0	0		0	0	5	6	0	0	1	0	1	0
##	C652	THMN	RY34	TBTN	CCL4	F172	L106	C391	BTHV	NKNN	PNKD	C754	RTMC	WLDC	F149	
## 1	163	4	7	2	14	5	2	35	3	3	4	13	4	2	21	
## 2	54	0	13	2	0	2	1	0	0	1	0	0	0	0	61	
## 3	0	0	80	0	0	0	2	0	0	2	2	0	0	4	64	
## 4	0	0	48	0	0	0	1	0	0	0	0	0	0	0	63	
## 5	0	0	78	0	0	0	3	0	0	0	0	0	0	1	104	
## 6	0	0	45	0	0	0	0	0	0	0	1	0	0	4	38	
## 7	0	0	45	0	0	0	0	0	0	0	0	0	0	4	29	
##	C595	C091	LEMS	C991	FB99	LBMA	PNTN	HNSC	LIWB	LCDB	TTOO	TWHN	LWMN	LFLG	LDMA	
## 1	81	1	1	17	19	26	1	2	1	4	6	1	2	1	6	
## 2	0	0	0	3	4	22	0	0	0	0	0	0	3	2	5	
## 3	0	0	0	15	104	0	0	0	0	0	0	1	5	1	12	
## 4	0	0	0	46	12	0	0	0	0	0	0	2	1	2	12	
## 5	0	0	0	56	0	0	0	0	0	0	0	4	0	0	24	
## 6	0	0	0	27	0	0	0	0	0	0	0	1	0	0	17	
## 7	0	0	0	33	0	0	0	0	0	0	0	1	0	0	0	
##	LNPF	WHIS	F141	FANT	LLIN	FTMW	GAFF	HAGR	PRFR	F174	FB58	MIDM	M145	MANT	ONIP	
## 1	3	1	12	1	1	1	1	1	11	9	9	1	18	7	1	
## 2	6	1	17	0	0	0	0	0	9	59	69	0	9	4	1	
## 3	9	0	100	0	0	2	0	0	6	86	110	1	5	4	0	
## 4	8	1	102	0	0	0	0	0	1	25	19	0	13	2	0	
## 5	26	0	93	0	0	0	0	0	19	1	0	1	38	6	0	
## 6	22	0	26	0	0	0	0	0	7	0	0	0	18	7	0	
## 7	28	0	18	0	0	0	1	0	4	0	0	3	15	5	0	
##	STDO	TLN2	PSDQ	HBMB	ALIN	HIPC	HIPM	BARE	BOXX	CURD	LET2	MOPS	MTWN	NEWT	SBTT	
## 1	1	1	15	7	1	1	6	3	1	1	1	1	1	1	1	
## 2	0	0	7	7	0	0	3	2	0	0	0	0	0	2	0	
## 3	0	0	9	11	0	0	0	2	0	0	0	0	0	2	0	
## 4	0	0	4	14	0	0	2	1	0	0	0	0	1	0	0	
## 5	0	0	23	33	0	0	2	0	0	0	0	0	0	0	0	
## 6	0	0	16	16	0	0	0	2	0	0	0	0	1	4	0	
## 7	0	0	10	15	0	0	0	2	0	0	0	0	1	4	0	
##	TPLS	PN05	BRCH	LYLU	TNSL	TRNO	SUFL	CATW	CLOX	MM49	MSUM	SCKB	THNM	LBLS	LBSC	
## 1	2	5	1	1	1	1	2	3	2	2	6	1	2	8	2	
## 2	1	2	0	0	0	0	5	0	0	1	3	0	2	2	0	
## 3	1	5	0	1	1	0	3	2	0	0	1	0	2	3	0	
## 4	1	0	0	0	0	0	2	2	0	0	1	0	1	0	0	
## 5	1	3	0	0	0	0	0	8	0	0	1	0	4	0	0	
## 6	0	2	0	0	0	1	3	4	0	0	0	1	3	0	0	
## 7	0	0	0	0	0	0	1	2	0	0	0	0	1	0	0	

##	LBTY	LTET	HMLS	MM62	GWEN	KNNN	OTH_596	OTH_610	Q5LA	SPTL	F219	1452	CPS2	BTHS	
## 1	3	2	3	1	2	2	1	1	6	10	22	8	5	1	
## 2	0	0	0	0	5	4	0	0	6	0	0	0	0	2	
## 3	0	0	0	0	0	4	0	0	3	0	16	0	0	3	
## 4	0	0	0	0	0	1	0	0	2	0	17	0	0	1	
## 5	0	0	0	0	0	5	0	0	4	0	43	0	0	0	
## 6	0	0	0	0	0	2	0	0	5	0	28	0	0	1	
## 7	0	0	0	0	0	1	0	0	5	0	35	0	0	2	
##	F107	ANGL	GRIN	HMLA	PTHD	RCLA	SR0M	SUMM	HNLN	KLNN	SKIT	GRC1	GRC2	BTLE	CWM4
## 1	3	2	1	1	1	1	1	1	1	1	1	1	1	4	3
## 2	0	0	0	1	1	0	0	0	0	0	3	0	0	0	0
## 3	0	0	0	0	0	0	0	0	3	3	0	0	0	0	0
## 4	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	2	3	3	3	0	6	0	0	0	0	0	0	0	0
## 7	0	2	0	2	0	0	0	0	1	0	0	0	0	0	0
##	MSUC	USLN	RUBB	1535	MLOB	MLOC	OTH_487	OTH_441	F178	BOXR	OTH_422	OTH_373	THOC		
## 1	4	1	1	21	1	1	1	1	75	3	2	1	5		
## 2	5	0	0	26	1	1	0	0	84	8	0	0	0		
## 3	1	0	0	0	4	0	0	0	190	40	0	0	0		
## 4	0	0	0	0	2	0	0	0	106	30	0	0	0		
## 5	2	0	0	0	0	0	0	0	189	99	0	0	0		
## 6	0	0	0	0	0	0	0	0	81	70	0	0	0		
## 7	0	0	0	0	0	0	0	0	96	50	0	0	0		
##	OTH_601	F109	F127	MDLB	LBT1	BZPN	F231	F120	F124	LOTB	PPSL	LBHL	OTH_456		
## 1	1	59	31	1	1	2	1	3	5	1	1	1	1		
## 2	0	108	121	2	0	0	1	4	4	0	0	1	0		
## 3	0	191	129	0	0	0	2	3	0	8	0	2	0		
## 4	0	87	62	0	0	0	18	11	0	6	0	3	0		
## 5	0	209	154	1	0	0	22	0	0	5	0	1	0		
## 6	0	83	98	0	0	0	6	0	0	7	3	3	0		
## 7	0	127	18	0	0	0	1	0	0	2	1	1	0		
##	OTH_707	BUZM	JDLA	MTHS	OTH_591	CLIF	MNCB	TOT2	DEDO	F144	MDPK	NIPP	IKNC	WAVE	
## 1	1	1	1	1	1	1	2	1	1	46	6	1	1	1	
## 2	0	0	0	0	0	1	1	1	0	34	7	0	0	1	
## 3	0	0	1	0	0	3	0	1	3	0	0	0	0	0	
## 4	0	0	1	0	0	2	0	0	0	0	0	1	0	1	
## 5	0	0	2	0	0	4	0	0	0	0	0	1	0	2	
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	EFHT	MRMS	CSTK	LSPL	SBPE	C717	LAT2	TNFG	DMDI	F188	C073	TEEN	F159	WAND	F198
## 1	1	1	1	3	2	16	2	2	3	49	31	7	47	1	34
## 2	1	0	0	1	2	0	1	1	1	88	0	14	89	3	76
## 3	0	3	0	2	4	0	1	0	0	110	0	0	8	66	167
## 4	0	1	0	0	0	0	0	0	0	95	0	0	129	29	105
## 5	0	0	0	0	3	0	0	0	0	191	0	0	205	0	176
## 6	0	0	0	0	0	0	0	0	0	78	0	0	83	0	94
## 7	0	0	0	0	0	0	0	0	0	96	0	0	124	0	48
##	PSB2	PSBZ	PHIN	F148	C574	F184	JOSE	F202	INHF	KATT	ROOS	RP61	C755	F113	F190
## 1	1	1	16	54	23	11	13	1	1	1	1	1	1	52	14
## 2	0	0	0	137	0	45	48	5	0	2	0	0	0	103	62
## 3	0	0	0	130	0	30	59	1	0	1	6	2	0	188	118
## 4	0	0	0	102	0	0	32	1	0	1	0	1	0	136	64
## 5	0	0	0	202	0	0	1	0	0	0	0	0	0	198	55

## 6	0	0	0	82	0	0	0	0	0	0	0	1	0	69	25
## 7	0	0	0	120	0	0	0	0	0	0	0	3	0	102	20
##	XYLO	C295	MSLB	TDTL	BTOK	LPSK	F152	GALO	WORM	F186	FLTP	FB70	BTMV	MTMS	MOFG
## 1	1	13	21	1	1	1	32	1	6	12	1	1	1	1	1
## 2	1	0	19	5	0	3	63	4	5	69	0	0	0	0	0
## 3	0	0	0	12	0	1	0	3	0	83	0	0	0	0	0
## 4	0	0	0	5	0	0	0	3	0	0	0	0	0	0	0
## 5	1	0	0	18	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	16	0	0	0	2	0	0	0	0	0	0	1
## 7	0	0	0	18	0	0	0	1	0	0	0	0	0	0	0
##	F146	CTS2	MSQL	PSC3	BTCH	DIGT	PORT	LTS2	LTSM	ALKC	CHMA	PN03	BRD2	C871	PROF
## 1	25	2	1	1	1	1	1	1	1	1	1	1	4	1	1
## 2	143	0	0	2	6	4	2	0	0	0	0	0	16	71	0
## 3	255	0	0	3	0	4	0	0	0	0	0	0	7	40	0
## 4	126	0	0	2	0	3	1	0	0	0	2	0	0	0	2
## 5	208	0	0	8	0	0	0	0	0	0	0	0	0	0	1
## 6	84	0	0	11	0	0	0	0	0	0	0	0	0	0	0
## 7	114	0	0	6	0	0	0	0	0	0	0	0	0	0	2
##	STMN	VTHN	SLLP	INDT	BTTN	SOLS	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
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## 3	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0
## 4	0	0	0	0	0	2	0	0	0	4	0	0	0	0	0
## 5	1	1	0	0	0	3	0	0	0	1	0	0	0	0	0
## 6	0	0	0	0	0	3	0	0	0	0	1	0	0	0	0
## 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 2	6	1	4	4	2	2	1	12	31	8	1	1	1	1	1
## 3	6	2	0	4	0	0	0	1	0	2	1	0	0	0	0
## 4	0	0	2	5	0	0	0	0	0	1	0	0	0	0	0
## 5	0	0	7	3	1	0	0	0	0	1	0	0	0	0	0
## 6	0	5	7	2	0	0	0	0	0	6	0	0	0	0	0
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## 2	1	2	1	3	1	5	43	58	38	7	2	1	1	1	45
## 3	0	0	0	1	2	1	0	74	60	4	9	0	3	5	59
## 4	0	0	0	0	0	2	0	46	33	7	24	0	0	0	46
## 5	0	0	0	0	1	3	0	110	29	0	25	0	0	0	85
## 6	0	0	0	0	2	6	0	67	41	0	22	0	0	0	50
## 7	0	1	0	0	1	4	0	116	21	0	21	0	0	0	44
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## 3	0	1	1	65	12	0	6	0	0	0	2	9	0	0	6
## 4	0	0	0	51	17	0	4	0	0	0	0	11	0	0	0
## 5	0	1	1	0	38	0	0	0	0	0	0	29	0	0	0
## 6	0	0	1	0	15	0	0	0	0	6	0	28	0	0	0
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## 3	6	2	0	6	3	7	1	0	5	0	0	24	0	2	3

## 4	17	0	0	1	0	2	2	0	0	0	0	13	0	0	0
## 5	25	1	0	1	3	3	4	1	0	5	0	7	0	1	0
## 6	23	2	0	2	2	4	2	0	0	4	0	9	0	1	0
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## 3	2	3	3	0	0	0	1	76	0	0	0	0	1	0	0
## 4	0	0	0	0	0	0	2	26	0	0	0	7	0	0	2
## 5	2	0	1	0	0	0	0	3	0	0	0	35	0	0	2
## 6	0	0	2	0	0	0	8	0	0	0	0	43	0	0	3
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## 3	4	1	0	0	0	0	1	0	0	0	0	2	5	0	4
## 4	5	1	0	0	0	1	9	0	0	0	0	0	0	0	1
## 5	11	2	0	0	0	0	24	1	0	0	0	0	0	0	0
## 6	6	0	0	0	0	4	30	0	0	0	0	0	0	0	0
## 7	8	0	0	0	0	8	33	0	0	0	0	0	0	0	0
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## 2	1	1	17	68	10	10	13	3	1	1	1	1	1	1	1
## 3	1	0	0	151	69	0	33	5	0	0	3	0	0	0	0
## 4	0	0	0	91	54	0	12	0	0	0	1	0	0	0	0
## 5	0	0	0	221	62	0	11	2	0	0	1	1	0	0	0
## 6	0	0	0	92	35	0	8	0	0	0	0	0	0	0	0
## 7	0	0	0	114	55	0	0	0	0	0	0	1	0	0	0
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## 2	2	2	64	34	1	1	1	4	47	23	2	1	1	1	1
## 3	0	0	140	67	1	0	0	31	106	95	20	0	0	0	0
## 4	0	0	75	0	0	2	0	51	82	57	0	1	0	0	0
## 5	0	0	147	0	0	4	0	91	145	105	4	0	0	0	0
## 6	0	0	90	0	0	5	1	50	68	12	8	0	0	0	0
## 7	0	0	109	0	0	6	0	43	124	0	7	0	0	0	0
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## 3	0	38	77	0	0	0	1	1	0	1	0	0	0	8	0
## 4	0	52	44	0	0	0	2	0	0	0	0	0	0	1	2
## 5	0	0	84	0	0	0	0	1	0	0	0	0	0	1	0
## 6	0	0	56	0	0	0	0	0	0	0	0	0	0	2	0
## 7	0	0	46	0	0	0	3	0	0	0	0	0	0	0	0
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## 2	1	17	1	1	2	25	11	2	3	16	18	27	10	21	21
## 3	0	70	1	1	18	178	114	35	0	92	119	180	0	198	131
## 4	0	0	0	0	3	74	10	0	0	0	79	145	0	138	0
## 5	0	0	4	0	18	78	0	0	0	0	149	181	0	294	0
## 6	0	0	0	0	5	0	0	0	0	0	48	55	0	92	0
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## 3	0	0	49	2	0	158	19	0	0	0	32	181	0	46	0
## 4	0	0	13	3	0	0	2	0	0	0	4	108	0	2	0
## 5	0	0	0	6	0	0	6	0	0	0	0	181	0	0	0
## 6	0	0	0	6	0	0	5	0	0	0	0	40	0	0	0
## 7	0	0	0	2	0	0	0	0	0	0	0	35	0	0	0
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## 3	0	0	1	0	4	0	2	0	2	4	3	0	1	0	0
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## 5	0	0	0	0	2	0	2	0	1	1	0	0	0	0	0
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## 3	0	0	2	1	0	3	1	0	0	0	10	0	0	78	4
## 4	0	0	1	1	0	0	0	0	0	2	22	5	0	81	0
## 5	0	0	22	0	0	6	0	0	0	0	26	0	7	120	0
## 6	0	1	8	0	0	5	0	0	0	1	23	0	10	67	2
## 7	0	0	10	0	0	6	0	0	0	0	15	0	7	73	2
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## 4	0	0	0	0	0	1	0	0	76	73	2	3	0	0	0
## 5	0	0	0	0	0	2	0	0	129	181	0	3	2	0	2
## 6	0	0	0	0	0	0	0	0	106	89	0	5	0	0	0
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## 6	0	0	0	0	1	33	41	0	4	1	0	0	11	0	0
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## 3	58	1	1	131	1	151	5	13	133	1	1	1	1	151	7
## 4	67	0	0	38	0	143	0	1	75	0	0	0	2	139	9
## 5	214	0	0	0	0	127	0	0	0	0	1	0	1	154	0
## 6	35	0	0	0	0	51	0	0	0	0	0	4	1	83	0
## 7	0	0	0	0	0	79	0	0	0	0	0	1	1	119	0
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## 3	16	20	2	1	20	1	1	2	8	6	84	81	45	18	18
## 4	8	6	0	1	2	0	0	0	16	0	130	10	4	2	2
## 5	0	19	0	0	29	0	0	1	40	0	174	69	0	61	58
## 6	0	7	0	0	0	0	0	0	10	0	52	51	0	7	5
## 7	0	18	0	0	0	0	0	1	11	0	55	92	0	15	3

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## 4	0	0	0	5	0	3	0	1	0	0	0	0	1	0	0
## 5	0	0	41	52	1	2	0	4	1	0	0	0	2	0	0
## 6	0	0	9	11	0	1	0	6	0	0	0	0	0	0	0
## 7	0	0	0	41	0	0	0	2	0	0	0	0	0	0	0
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## 4	0	1	0	1	0	2	0	0	0	0	7	0	0	0	0
## 5	0	0	1	0	1	3	0	2	0	1	9	1	0	1	0
## 6	0	0	0	0	0	0	0	0	0	1	8	1	0	0	0
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## 6	9	6	3	59	28	0	5	30	0	7	7	0	0	9	86
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[illegible]

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##	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	7	3	2	1	94	5	12	2	1	1	1	1	1	1	1	11
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	7	1	1	2	2	3	1	1	1	3	1	2	1	1	1	2
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	7	1	7	5	10	11	1	1	2	2	2	3	3	2	40	86
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0											

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```
## 2    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 3    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 4    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 5    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 6    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 7    1    1    1    5    19   25    5    1    1    1    5    1    1    1    1
##      <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA>
## 1    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 2    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 3    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 4    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 5    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 6    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 7    3    1    1    2    4    2    1    1    1    1    14    1    2    1    1
##      <NA> <NA> <NA> <NA> <NA> <NA>
## 1    0    0    0    0    0    0
## 2    0    0    0    0    0    0
## 3    0    0    0    0    0    0
## 4    0    0    0    0    0    0
## 5    0    0    0    0    0    0
## 6    0    0    0    0    0    0
## 7    1    1    6    1    1    1
```

```
# Transforming into binary matrices
```

```
p3y <- as.matrix(p3y); p3y[which(p3y>=1)] = 1; p3y[which(p3y<1)] = 0
```

```
# ----- 6 sets of 4 year increments-----
```

```
# Make a list of 4 years per dataframe
```

```
sample_data$FourYearIncrement <- cut(sample_data$Year, breaks = seq(min(sample_data$Year), max(sample_data$Year), length.out = 6))
```

```
list_fouryears <- split(sample_data, sample_data$FourYearIncrement)
```

```
# Apply the count_instances function to each two years
```

```
instances_per_fouryear <- lapply(list_fouryears, count_instances)
```

```
# Convert the list of counts to a data frame
```

```
p4y <- do.call(rbind, instances_per_fouryear)
```

```
p4y
```

```
##      FB41 FB05 FB36 FB38 FB55 FB96 FB98 F108 F153 FB15 FB23 FB78 FB93 F155 FB01
## 1    67   144   177   192   149    65    38    56    67    86    68   113    88   227   174
## 2     0   163   121    49   209    47     0    47    65   138     0   109   159   174   186
## 3     0   103    87     0   131     0     0    47    48   110     0    72    93   119    37
## 4     0    56   105     0   133     0     0    62    72   163     0   123   125   177     0
## 5     0     0    25     0   111     0     0    66    76    82     0   107    69   129     0
## 6     0     0     0     0    28     0     0    16    23    23     0    17     0    27     0
##      FB43 FB92 F118 F122 FB29 <NA> FB54 FB71 FB90 F100 F119 FB14 FB27 <NA> FB57
## 1    84   174   250   165   118     0   295    87   266   119   194   145   146     0   103
## 2    83   159   186     0    13     0   219     0   217   118   185   295   116     0     0
## 3    67   121   153     0     0     0   176     0   199    89    93    66   114     0     0
## 4   130   187   177     0     0     0   132     0   259     4     0    14    94     0     0
## 5    41   111    59     0     0     0   137     0   104     0     0     0    81     0     0
## 6     0    39     0     0     0     0    28     0    34     0     0     0    32     0     0
##      FB66 FB76 FB94 F112 FB12 FB03 <NA> F106 FB44 FB62 F175 FB10 FB46 FB75 FB79
## 1   130   127   176    55    66   136     0   171   131   115   205   187   169   115   160
## 2   214   208   290     0     0   203     0   184    51     0   212   151   146   149   156
```

## 3	148	131	80	0	0	62	0	102	40	0	180	116	43	127	129
## 4	84	0	0	0	0	0	0	138	55	0	201	112	0	3	205
## 5	59	0	0	0	0	0	0	0	59	0	170	77	0	0	139
## 6	0	0	0	0	0	0	0	0	22	0	25	16	0	0	29
##	FB60	FB13	F138	FB63	FB07	FB11	F132	FB25	F102	F111	F130	F134	F136	F154	F160
## 1	32	113	181	177	227	259	15	173	18	153	8	31	27	90	34
## 2	0	175	96	67	203	258	5	117	16	103	2	21	18	9	22
## 3	0	88	124	94	146	172	2	105	9	19	0	10	9	18	12
## 4	0	81	173	38	175	230	2	117	38	0	0	24	0	28	3
## 5	0	0	147	0	127	124	0	104	28	0	0	3	0	6	0
## 6	0	0	34	0	35	27	0	34	5	0	0	0	0	8	0
##	F162	<NA>	FB20	FB65	HIQQ	POOF	FB28	<NA>	FB09	FB33	ATNA	CWM3	NKLN	WTMA	FB48
## 1	34	0	163	217	15	15	64	0	195	186	2	18	4	14	33
## 2	24	7	137	194	13	5	170	0	130	152	0	17	1	1	80
## 3	8	4	137	186	5	1	60	0	129	142	0	9	2	0	27
## 4	15	0	167	208	36	2	58	0	110	150	6	17	14	0	26
## 5	24	0	166	112	27	0	38	0	0	130	1	17	6	0	0
## 6	6	0	29	30	5	0	17	0	0	29	0	4	0	0	0
##	F105	1054	<NA>	FB32	49C3	49LA	<NA>	<NA>	<NA>	F161	F164	<NA>	KMSN	MIDF	5NK2
## 1	7	2	0	108	9	38	0	0	0	1	13	0	3	4	2
## 2	8	0	0	163	0	22	0	1	0	0	41	0	0	1	2
## 3	1	0	0	20	0	12	0	0	0	0	71	0	0	4	0
## 4	0	0	0	0	0	0	0	0	2	0	85	0	0	8	0
## 5	0	0	0	0	0	0	0	0	0	0	109	0	0	6	0
## 6	0	0	0	0	0	0	0	0	0	0	27	0	0	1	0
##	<NA>	<NA>	MBAB	<NA>	<NA>	WTAB	<NA>	BTTV	<NA>	F147	F210	F237	<NA>	<NA>	FB84
## 1	0	0	2	0	0	2	0	19	0	9	1	24	0	0	126
## 2	0	0	1	0	2	0	0	2	0	2	16	46	0	1	105
## 3	0	0	0	0	1	1	0	0	0	0	8	56	0	0	24
## 4	0	1	2	0	9	2	0	0	0	0	10	144	0	0	0
## 5	0	0	0	0	1	0	0	0	0	0	0	56	0	2	0
## 6	0	0	0	0	0	0	0	0	0	0	0	26	0	0	0
##	CRAG	HVMS	LCKL	RUFF	FB59	FB83	FB02	C834	BBMB	LDL	LSMS	MCMA	PN06	F276	FB24
## 1	5	1	10	3	130	78	123	37	5	5	1	24	1	22	92
## 2	8	5	0	8	134	111	101	111	6	6	0	52	0	85	13
## 3	0	4	0	6	44	52	105	66	4	5	0	0	0	47	0
## 4	0	23	2	0	0	0	153	120	0	1	0	0	1	142	0
## 5	0	18	1	0	0	0	100	103	0	0	0	0	0	136	0
## 6	0	4	0	0	0	0	13	19	0	0	0	0	0	36	0
##	FB35	F182	DRSN	<NA>	F128	F131	DIPT	SLMS	2SDN	BBL2	BBLN	BTLN	CHK2	ETMA	<NA>
## 1	30	125	63	0	109	227	9	2	2	2	3	4	2	3	0
## 2	23	117	39	0	162	182	10	0	0	0	2	2	0	7	0
## 3	17	76	37	0	118	131	0	0	0	0	1	3	0	4	0
## 4	48	106	52	0	197	228	0	0	0	0	9	0	0	2	0
## 5	49	92	22	0	106	163	0	0	0	0	1	0	0	0	0
## 6	6	17	0	0	39	42	0	0	0	0	1	0	0	0	0
##	HNB	<NA>	JAGG	JIG3	KMBT	LOBE	MLTS	<NA>	<NA>	<NA>	<NA>	<NA>	SHOT	SURR	TFMS
## 1	2	0	3	5	1	3	2	0	0	0	0	0	4	3	2
## 2	1	0	0	3	0	0	3	0	0	1	0	0	4	0	0
## 3	0	0	0	1	0	0	1	0	1	0	0	0	2	0	0
## 4	3	0	0	3	0	0	2	0	0	1	0	1	1	0	0
## 5	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	TSMV	<NA>	<NA>	FB17	F110	F191	FB73	<NA>	<NA>	PSD2	PSDZ	<NA>	HSNS	<NA>	<NA>

## 1	8	0	0	44	49	26	19	0	0	2	1	0	6	0	0
## 2	12	0	0	23	61	23	15	0	0	0	0	0	1	0	1
## 3	7	0	0	35	63	0	5	0	0	0	0	0	3	0	1
## 4	24	0	0	5	81	0	0	0	0	0	0	0	7	0	0
## 5	14	0	0	0	56	0	0	0	0	1	0	0	10	0	2
## 6	4	0	0	0	16	0	0	0	0	0	0	0	5	0	1
##	<NA>	ETSC	FNOT	<NA>	<NA>	LGSC	<NA>	<NA>	MTMN	NLPS	PLUG	<NA>	TOTW	F183	THUB
## 1	0	1	1	0	0	1	0	0	15	1	6	0	1	48	2
## 2	0	0	0	1	0	0	1	0	0	0	0	0	0	76	3
## 3	3	0	0	0	0	0	0	0	0	1	3	1	2	49	0
## 4	8	0	0	0	0	0	0	0	0	3	24	0	0	1	0
## 5	7	0	0	1	0	0	0	0	0	2	7	2	0	0	0
## 6	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
##	F114	C791	FB26	FB34	F180	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	PKUP	<NA>	<NA>	SCOR
## 1	124	11	37	37	54	0	0	0	0	0	0	1	0	0	1
## 2	104	0	89	0	19	0	1	1	0	0	1	0	0	1	0
## 3	63	0	0	0	8	0	0	0	0	0	1	1	0	0	0
## 4	59	0	0	0	8	1	1	2	0	0	1	0	0	0	0
## 5	21	0	0	0	4	0	0	0	0	0	0	0	0	0	0
## 6	18	0	0	0	1	0	0	0	0	0	0	0	0	0	0
##	SPIK	FJSL	F117	<NA>	<NA>	ELFF	PN04	<NA>	TTM3	<NA>	LNST	<NA>	<NA>	<NA>	<NA>
## 1	5	1	109	0	0	20	7	0	2	0	2	0	0	0	0
## 2	0	0	214	0	0	8	0	0	3	0	0	0	0	0	0
## 3	0	2	15	0	0	5	0	0	6	0	2	0	0	0	0
## 4	0	1	0	0	0	1	0	0	4	0	2	0	0	0	0
## 5	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	FB39	CMRS	CONC	CONS	F163	F181	HAIR	HITS	MSQ2	RTMW	<NA>	SPGT	TABB	MDNK	KNOB
## 1	36	2	2	5	83	64	14	5	8	27	0	3	12	6	23
## 2	0	10	0	7	147	161	16	5	6	13	0	0	5	0	0
## 3	0	26	0	7	18	95	20	21	6	17	0	0	3	12	0
## 4	0	34	0	0	0	70	38	35	3	23	0	0	6	47	0
## 5	0	36	0	0	0	0	33	32	0	30	0	0	0	0	0
## 6	0	12	0	0	0	0	8	12	0	2	0	0	0	0	0
##	<NA>	<NA>	NIK2	<NA>	<NA>	BFWT	JAWS	<NA>	CHPC	<NA>	<NA>	ALHK	LHLV	<NA>	FB06
## 1	0	0	4	0	0	6	9	0	1	0	0	6	1	0	147
## 2	0	0	0	0	0	0	0	0	1	0	0	5	1	0	166
## 3	0	1	1	0	0	0	0	0	0	0	0	9	0	0	126
## 4	0	0	1	0	0	0	0	0	0	0	0	7	4	0	14
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	<NA>	<NA>	FB87	<NA>	CKB2	1832	SUMO	F157	<NA>	SOLB	TCTV	IKNO	F101	<NA>	<NA>
## 1	0	0	77	0	6	24	2	61	0	37	27	25	202	0	0
## 2	0	0	82	0	0	0	7	178	0	54	9	66	193	0	0
## 3	0	0	39	0	0	0	19	174	0	57	26	0	74	0	0
## 4	0	0	75	0	0	0	21	114	0	67	22	0	0	0	0
## 5	0	0	70	0	0	0	0	6	0	52	19	0	0	0	0
## 6	0	0	25	0	0	0	0	0	0	17	2	0	0	0	0
##	VRIP	HFLT	ZENN	<NA>	CLAW	AOTA	BKHO	<NA>	<NA>	<NA>	<NA>	F254	<NA>	MPTB	<NA>
## 1	1	2	13	0	1	2	1	0	0	0	0	2	0	6	0
## 2	1	10	0	0	0	2	8	0	0	0	0	6	0	52	0
## 3	2	15	0	0	0	3	5	0	0	0	0	32	0	61	0
## 4	2	13	0	0	0	0	5	0	0	0	0	54	0	92	0
## 5	2	0	0	0	0	0	8	0	0	0	0	57	0	60	0

## 6	0	0	0	0	0	0	6	0	0	0	0	23	0	14	0
##	SHTC	TRIF	<NA>	<NA>	PHNE	PN10	PNSN	FEAT	LUMP	BEGR	MOCH	F116	SLIF	OTH_604	THOR
## 1	2	4	0	0	9	4	3	3	6	45	16	17	1	1	8
## 2	80	1	0	0	2	5	1	3	0	135	0	0	0	0	0
## 3	25	1	0	0	0	0	0	1	0	67	0	0	0	0	0
## 4	0	2	0	0	0	0	0	9	0	127	0	0	0	0	0
## 5	0	4	0	0	0	0	0	1	0	285	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	F192	F194	MCM2	CATR	LFLA	OTH_199	TN3N	MTSS	SIMP	BRDO	RPPL	DTHB	GTFG	UPBK	MNIK
## 1	40	36	3	4	7		1	1	17	6	21	4	1	4	2
## 2	100	92	0	2	2		0	0	7	0	20	0	0	4	1
## 3	9	35	0	0	0		0	0	7	6	5	0	0	1	0
## 4	0	55	0	1	0		0	0	4	19	0	0	3	1	3
## 5	0	64	0	0	0		0	0	9	6	0	0	1	0	1
## 6	0	0	0	0	0		0	0	1	3	0	0	0	0	0
##	C652	THMN	RY34	TBTN	CCL4	F172	L106	C391	BTHV	NKNN	PNKD	C754	RTMC	WLDC	F149
## 1	210	4	11	2	14	7	2	35	3	3	4	13	4	2	54
## 2	7	0	71	2	0	0	1	0	0	3	1	0	0	4	74
## 3	0	0	66	0	0	0	3	0	0	0	1	0	0	0	81
## 4	0	0	97	0	0	0	3	0	0	0	1	0	0	3	120
## 5	0	0	61	0	0	0	0	0	0	0	0	0	0	4	37
## 6	0	0	10	0	0	0	0	0	0	0	0	0	0	2	14
##	C595	C091	LEMS	C991	FB99	LBMA	PNTN	HNSC	LIWB	LCDB	TT00	TWHN	LWMN	LFLG	LDMA
## 1	81	1	1	18	20	48	1	2	1	4	6	1	3	2	10
## 2	0	0	0	16	107	0	0	0	0	0	0	1	5	2	10
## 3	0	0	0	47	12	0	0	0	0	0	0	2	3	2	15
## 4	0	0	0	69	0	0	0	0	0	0	0	5	0	0	29
## 5	0	0	0	32	0	0	0	0	0	0	0	1	0	0	12
## 6	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0
##	LNPF	WHIS	F141	FANT	LLIN	FTMW	GAFF	HAGR	PRFR	F174	FB58	MIDM	M145	MANT	ONIP
## 1	4	1	21	1	1	1	1	1	15	31	36	1	21	8	1
## 2	12	1	87	0	0	1	0	0	9	108	132	1	7	5	1
## 3	10	1	123	0	0	1	0	0	3	40	39	0	17	4	0
## 4	38	0	115	0	0	0	0	0	23	1	0	1	48	10	0
## 5	27	0	17	0	0	0	1	0	4	0	0	3	18	7	0
## 6	11	0	5	0	0	0	0	0	3	0	0	0	5	1	0
##	STDO	TLN2	PSDQ	HBMB	ALIN	HIPC	HIPM	BARE	BOXX	CURD	LET2	MOPS	MTWN	NEWT	SBTT
## 1	1	1	16	9	1	1	7	3	1	1	1	1	1	1	1
## 2	0	0	13	12	0	0	2	4	0	0	0	0	0	3	0
## 3	0	0	6	18	0	0	2	1	0	0	0	0	1	1	0
## 4	0	0	30	40	0	0	2	1	0	0	0	0	1	3	0
## 5	0	0	15	17	0	0	0	3	0	0	0	0	0	4	0
## 6	0	0	4	7	0	0	0	0	0	0	0	0	1	1	0
##	TPLS	PN05	BRCH	LYLU	TNSL	TRNO	SUFL	CATW	CLOX	MM49	MSUM	SCKB	THNM	LBL5	LBSC
## 1	2	5	1	1	1	1	4	3	2	2	8	1	2	8	2
## 2	2	3	0	1	1	0	4	0	0	1	1	0	2	5	0
## 3	1	4	0	0	0	0	4	4	0	0	2	0	3	0	0
## 4	1	5	0	0	0	0	1	10	0	0	1	0	6	0	0
## 5	0	0	0	0	0	1	3	4	0	0	0	1	2	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	LBTY	LTET	HMLS	MM62	GWEN	KNNN	OTH_596	OTH_610	Q5LA	SPTL	F219	1452	CPS2	BTHS	
## 1	3	2	3	1	2	4	1	1	7	10	22	8	5	1	
## 2	0	0	0	0	5	5	0	0	7	0	12	0	0	3	
## 3	0	0	0	0	0	2	0	0	3	0	21	0	0	3	

## 4	0	0	0	0	0	7	0	0	4	0	55	0	0	0	
## 5	0	0	0	0	0	1	0	0	9	0	46	0	0	3	
## 6	0	0	0	0	0	0	0	0	1	0	5	0	0	0	
##	F107	ANGL	GRIN	HMLA	PTHD	RCLA	SR0M	SUMM	HNLN	KLNN	SKIT	GRC1	GRC2	BTLE	CWM4
## 1	3	2	1	2	2	1	1	1	1	1	1	1	1	4	3
## 2	0	0	0	0	0	0	0	0	3	2	3	0	0	0	0
## 3	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0
## 4	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0
## 5	0	3	3	3	3	0	4	0	1	0	0	0	0	0	0
## 6	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
##	MSUC	USLN	RUBB	1535	MLOB	MLOC	OTH_487	OTH_441	F178	BOXR	OTH_422	OTH_373	THOC		
## 1	7	1	1	33	2	2	1	1	116	5	2	1	5		
## 2	3	0	0	14	4	0	0	0	186	43	0	0	0		
## 3	0	0	0	0	2	0	0	0	153	33	0	0	0		
## 4	2	0	0	0	0	0	0	0	207	117	0	0	0		
## 5	0	0	0	0	0	0	0	0	124	93	0	0	0		
## 6	0	0	0	0	0	0	0	0	35	9	0	0	0		
##	OTH_601	F109	F127	MDLB	LBT1	BZPN	F231	F120	F124	LOTB	PPSL	LBHL	OTH_456		
## 1	1	99	77	1	1	2	1	7	9	1	1	2	1		
## 2	0	208	181	2	0	0	3	3	0	7	0	2	0		
## 3	0	138	85	0	0	0	18	11	0	7	0	3	0		
## 4	0	245	199	1	0	0	24	0	0	6	0	3	0		
## 5	0	130	71	0	0	0	5	0	0	8	4	2	0		
## 6	0	44	0	0	0	0	0	0	0	0	0	0	0		
##	OTH_707	BUZM	JDLA	MTHS	OTH_591	CLIF	MNCB	TOT2	DEDO	F144	MDPK	NIPP	IKNC	WAVE	
## 1	1	1	1	1	1	1	2	2	1	80	13	1	1	1	
## 2	0	0	1	0	0	4	1	1	3	0	0	0	0	1	
## 3	0	0	1	0	0	2	0	0	0	0	0	1	0	1	
## 4	0	0	2	0	0	4	0	0	0	0	0	1	0	2	
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	EFHT	MRMS	CSTK	LSPL	SBPE	C717	LAT2	TNFG	DMDI	F188	C073	TEEN	F159	WAND	F198
## 1	2	1	1	4	3	16	3	3	3	87	31	16	106	1	74
## 2	0	2	0	2	5	0	0	0	1	125	0	5	30	51	164
## 3	0	2	0	0	0	0	1	0	0	130	0	0	137	47	144
## 4	0	0	0	0	3	0	0	0	0	209	0	0	227	0	204
## 5	0	0	0	0	0	0	0	0	0	120	0	0	162	0	114
## 6	0	0	0	0	0	0	0	0	0	36	0	0	23	0	0
##	PSB2	PSBZ	PHIN	F148	C574	F184	JOSE	F202	INHF	KATT	ROOS	RP61	C755	F113	F190
## 1	1	1	16	118	23	31	35	6	1	3	1	1	1	97	31
## 2	0	0	0	173	0	55	67	0	0	0	6	1	0	185	137
## 3	0	0	0	132	0	0	50	2	0	2	0	2	0	197	90
## 4	0	0	0	238	0	0	1	0	0	0	0	0	0	224	68
## 5	0	0	0	125	0	0	0	0	0	0	0	4	0	124	25
## 6	0	0	0	41	0	0	0	0	0	0	0	0	0	21	7
##	XYLO	C295	MSLB	TDTL	BTOK	LPSK	F152	GALO	WORM	F186	FLTP	FB70	BTMV	MTMS	MOFG
## 1	1	13	40	2	1	3	73	2	9	46	1	1	1	1	1
## 2	1	0	0	14	0	2	22	4	2	118	0	0	0	0	0
## 3	0	0	0	7	0	0	0	5	0	0	0	0	0	0	0
## 4	1	0	0	22	0	0	0	1	0	0	0	0	0	0	0
## 5	0	0	0	26	0	0	0	2	0	0	0	0	0	0	1
## 6	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
##	F146	CTS2	MSQL	PSC3	BTCH	DIGT	PORT	LTS2	LTSM	ALKC	CHMA	PN03	BRD2	C871	PROF
## 1	91	2	1	1	4	3	2	1	1	1	1	1	16	39	1

## 2	274	0	0	4	3	5	1	0	0	0	0	0	11	64	0
## 3	184	0	0	3	0	4	1	0	0	0	2	0	0	9	2
## 4	232	0	0	11	0	0	0	0	0	0	0	0	0	0	1
## 5	141	0	0	12	0	0	0	0	0	0	0	0	0	0	2
## 6	33	0	0	2	0	0	0	0	0	0	0	0	0	0	0
##	STMN	VTHN	SLLP	INDT	BTTN	SOLS	LACH	OTH_164	OTH_208	RNMA	F170	FNGD	HTHR	PRGO	
## 1	1	1	1	1	1	1	3	1	1	3	1	1	1	1	
## 2	0	0	1	0	0	0	3	0	0	0	1	0	0	0	
## 3	0	0	0	0	0	2	0	0	0	4	0	0	0	0	
## 4	1	1	0	0	0	6	0	0	0	1	1	0	0	0	
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	WAAA	WOTN	CRUM	MUCH	NIPN	BBUK	LBLT	LEMO	LSPO	PUMP	SGLA	TSMN	TULP	BOZO	FLLN
## 1	1	2	1	2	1	1	1	1	1	30	7	1	1	1	1
## 2	0	10	2	2	5	1	1	0	12	1	2	0	0	0	0
## 3	0	0	0	2	7	0	0	0	0	0	2	1	0	0	0
## 4	0	0	1	8	5	1	0	0	0	0	1	0	0	0	0
## 5	0	0	7	15	0	0	0	0	0	0	7	0	0	0	0
## 6	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
##	MOML	HSN2	SMUS	BSLV	UPBT	HILB	MORN	C272	F142	JOSC	HANG	F126	STIP	WHIT	LBLK
## 1	1	1	1	1	1	1	1	43	18	14	1	1	1	1	1
## 2	0	0	1	0	3	2	5	0	102	66	8	7	0	3	5
## 3	0	0	0	0	0	0	2	0	58	51	9	27	0	0	0
## 4	0	0	0	0	0	1	6	0	128	42	0	33	0	0	0
## 5	0	0	1	0	0	3	7	0	132	49	0	28	0	0	0
## 6	0	0	0	0	0	0	0	0	33	0	0	7	0	0	0
##	IKN2	PRFC	APEM	HMTN	SBDO	RTM2	PLG2	MJMA	MJMC	OTH_228	RNMK	DAND	LNPC	TWIG	XNDU
## 1	12	3	1	2	6	3	1	2	2		1	1	1	1	1
## 2	80	1	1	2	76	7	0	8	0		0	0	5	12	0
## 3	58	0	0	0	64	23	0	5	0		0	0	0	13	0
## 4	98	0	1	1	0	45	0	0	0		0	2	0	44	0
## 5	64	0	0	1	0	14	0	0	0		0	7	0	24	0
## 6	17	0	0	0	0	2	0	0	0		0	3	0	6	0
##	PECS	ULYS	ZOEY	IVTA	NACK	POET	R27L	TAL2	YAH0	HBUT	HOKA	OTH_692	LIZD	SCOB	SKIL
## 1	3	1	1	1	1	1	1	1	1	1	1		1	1	1
## 2	7	6	2	1	5	4	6	0	1	7	0		0	34	0
## 3	0	18	0	0	2	0	3	3	0	0	0		0	17	0
## 4	0	40	1	0	3	3	5	4	1	0	6		0	9	0
## 5	0	23	3	0	1	3	6	2	1	0	4		0	14	0
## 6	0	10	2	0	0	0	1	0	0	0	0		0	3	0
##	PRTF	TUNL	GIDN	OCTV	BUMI	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
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## 2	4	2	4	3	0	1	11	3	80	1	1	1	1	1	1
## 3	0	0	0	1	0	0	0	2	48	0	0	0	7	1	0
## 4	0	2	0	2	0	0	0	5	3	0	0	0	44	0	0
## 5	0	0	0	3	0	0	0	4	0	0	0	0	47	0	0
## 6	0	0	0	1	0	0	0	2	0	0	0	0	5	0	0
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## 2	2	3	1	1	1	1	2	5	1	1	2	1	5	27	1
## 3	2	8	2	0	0	0	1	9	0	0	0	0	0	0	0
## 4	2	13	2	0	0	0	1	31	1	0	0	0	0	0	0
## 5	3	10	0	0	0	0	6	45	0	0	0	0	0	0	0
## 6	0	2	0	0	0	0	5	11	0	0	0	0	0	0	0

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## 2	8	2	1	17	183	69	10	31	8	1	1	3	1	1	1
## 3	2	0	0	0	127	64	0	27	0	0	0	2	0	0	0
## 4	0	0	0	0	249	74	0	15	2	0	0	1	1	0	0
## 5	0	0	0	0	143	58	0	4	0	0	0	0	0	0	0
## 6	0	0	0	0	35	20	0	0	0	0	0	0	1	0	0
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## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	2	2	169	101	1	1	1	27	125	108	21	1	1	1
## 3	0	0	0	110	0	1	2	0	59	110	67	1	1	0	0
## 4	0	0	0	179	0	0	4	0	106	170	114	9	0	0	0
## 5	0	0	0	128	0	0	9	1	65	130	3	9	0	0	0
## 6	0	0	0	39	0	0	2	0	13	37	0	1	0	0	0
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## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	1	56	93	3	1	1	4	2	1	2	3	1	1	21
## 3	0	0	58	58	0	0	0	3	0	0	0	0	0	0	1
## 4	0	0	0	103	0	0	0	0	1	0	0	0	0	0	2
## 5	0	0	0	70	0	0	0	3	0	0	0	0	0	0	1
## 6	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0
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## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	1	72	2	2	20	175	105	36	3	93	121	167	10	167
## 3	2	0	15	0	0	3	102	30	1	0	15	95	185	0	190
## 4	0	0	0	4	0	19	78	0	0	0	0	172	202	0	320
## 5	0	0	0	1	0	9	0	0	0	0	0	69	77	0	133
## 6	0	0	0	0	0	3	0	0	0	0	0	15	37	0	40
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## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	140	1	17	38	1	1	167	18	1	1	1	27	158	1	44
## 3	12	0	0	29	5	0	12	6	0	0	0	12	151	0	17
## 4	0	0	0	0	6	0	0	7	0	0	0	0	201	0	0
## 5	0	0	0	0	8	0	0	4	0	0	0	0	44	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0
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## 2	8	1	3	3	1	4	1	3	1	3	5	4	2	2	1
## 3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	2	0	2	0	1	1	0	0	1	2
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	2	1	2	2	1	4	1	1	1	1	8	1	1	57
## 3	0	0	0	2	1	0	0	1	0	0	2	25	5	0	103
## 4	0	0	0	26	0	0	8	0	0	0	0	38	0	9	141
## 5	0	0	1	8	0	0	9	0	0	0	1	21	0	14	105
## 6	0	0	0	6	0	0	0	0	0	0	0	5	0	1	14
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## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	4	1	1	1	1	1	2	4	1	51	53	2	1	1	1
## 3	2	0	0	0	0	0	1	0	0	97	92	2	4	0	0
## 4	1	0	0	0	0	0	2	0	0	163	207	0	5	2	0

## 5	2	0	0	0	0	0	0	0	0	162	141	0	3	0	0
## 6	1	0	0	0	0	0	0	0	0	28	34	0	0	0	0
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## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	2	3	2	3	36	3	16	11	1	2	3	2	2	4	1
## 3	0	0	0	2	6	1	33	43	0	2	1	3	0	7	0
## 4	2	0	1	0	0	3	49	96	5	6	9	0	0	10	0
## 5	0	0	0	0	0	4	50	51	0	5	1	0	0	6	0
## 6	0	0	0	1	0	0	22	16	0	0	0	0	0	0	0
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## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	41	1	1	98	1	116	2	13	104	1	1	1	1	118
## 3	3	84	0	0	71	0	178	3	1	104	0	0	0	2	172
## 4	4	226	0	0	0	0	143	0	0	0	0	1	3	1	183
## 5	0	23	0	0	0	0	89	0	0	0	0	0	1	1	142
## 6	0	0	0	0	0	0	25	0	0	0	0	0	1	1	31
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## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	5	15	17	1	1	20	1	1	2	7	5	64	81	37	15
## 3	11	9	9	1	1	2	0	0	0	17	1	150	10	12	5
## 4	0	0	26	0	0	29	0	0	1	46	0	203	94	0	68
## 5	0	0	5	0	0	0	0	0	1	10	0	62	89	0	6
## 6	0	0	13	0	0	0	0	0	0	5	0	16	29	0	9
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## 2	18	16	11	7	6	1	2	1	4	1	4	5	1	1	1
## 3	2	0	0	0	5	0	5	0	2	0	0	1	0	2	0
## 4	63	0	0	48	53	1	3	0	7	1	0	0	0	2	0
## 5	3	0	0	2	40	0	0	0	5	0	0	0	0	0	0
## 6	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0
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## 3	0	0	1	0	2	0	2	0	0	1	0	20	0	0	0
## 4	0	0	0	1	0	1	3	0	2	0	2	10	1	0	1
## 5	0	0	0	1	0	0	0	0	1	0	0	7	1	0	0
## 6	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 3	1	0	0	0	0	0	2	0	0	3	1	1	0	0	0
## 4	0	0	0	0	0	0	0	0	0	22	1	0	0	0	1
## 5	0	0	0	0	0	0	0	0	3	17	0	0	0	0	0
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## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	2	1	4	4	7	6	1	1	2	2	2	3	3	2	32
## 6	0	0	3	1	3	5	0	0	0	0	0	0	0	0	8
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	45	7	7	1	1	3	1	1	20	6	3	1	33	5	25
## 6	41	0	1	0	0	0	0	0	23	0	1	2	0	0	17
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>

[illegible]

```
## 6      9      4      1      2      2      8      10      16      16      1      2      1      1      1      1
##      <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA>
## 1      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 2      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 3      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 4      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 5      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 6      1      1      1      1      5      19      25      5      1      1      1      1      5      1      1      1
##      <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA>
## 1      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 2      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 3      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 4      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 5      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 6      1      3      1      1      2      4      2      1      1      1      1      14      1      2      1
##      <NA> <NA> <NA> <NA> <NA> <NA> <NA>
## 1      0      0      0      0      0      0      0
## 2      0      0      0      0      0      0      0
## 3      0      0      0      0      0      0      0
## 4      0      0      0      0      0      0      0
## 5      0      0      0      0      0      0      0
## 6      1      1      1      6      1      1      1
```

```
# Transforming into binary matrices
```

```
p4y <- as.matrix(p4y); p4y[which(p4y>=1)] = 1; p4y[which(p4y<1)] = 0
```

```
# ----- 4 sets of 5 year increments-----
```

```
# Make a list of 5 years per dataframe
```

```
sample_data$FiveYearIncrement <- cut(sample_data$Year, breaks = seq(min(sample_data$Year), max(sample_data$Year),
```

```
list_fivyears <- split(sample_data, sample_data$FiveYearIncrement)
```

```
# Apply the count_instances function to each two years
```

```
instances_per_fiveyear <- lapply(list_fivyears, count_instances)
```

```
# Convert the list of counts to a data frame
```

```
p5y <- do.call(rbind, instances_per_fiveyear)
```

```
p5y
```

```
##      FB41 FB05 FB36 FB38 FB55 FB96 FB98 F108 F153 FB15 FB23 FB78 FB93 F155 FB01
## 1      67      165      200      215      173      78      38      62      79      110      68      133      108      256      199
## 2      0      200      127      26      261      34      0      64      81      167      0      116      199      218      198
## 3      0      94      132      0      158      0      0      66      76      195      0      135      142      203      0
## 4      0      7      56      0      141      0      0      86      92      107      0      140      85      149      0
## 5      0      0      0      0      28      0      0      16      23      23      0      17      0      27      0
##      FB43 FB92 F118 F122 FB29 <NA> FB54 FB71 FB90 F100 F119 FB14 FB27 <NA> FB57
## 1      98      199      275      165      131      0      351      87      304      139      234      167      160      0      103
## 2      110      196      238      0      0      0      279      0      301      140      222      322      170      0      0
## 3      139      214      218      0      0      0      165      0      308      51      16      31      116      0      0
## 4      58      143      94      0      0      0      164      0      132      0      0      0      105      0      0
## 5      0      39      0      0      0      0      28      0      34      0      0      0      32      0      0
##      FB66 FB76 FB94 F112 FB12 FB03 <NA> F106 FB44 FB62 F175 FB10 FB46 FB75 FB79
## 1      148      142      203      55      66      165      0      205      143      115      230      204      186      132      190
## 2      281      268      332      0      0      236      0      204      52      0      291      200      172      199      177
## 3      134      56      11      0      0      0      0      186      63      0      243      134      0      63      250
## 4      72      0      0      0      0      0      0      0      78      0      204      105      0      0      172
```

## 5	0	0	0	0	0	0	0	0	22	0	25	16	0	0	29
##	FB60	FB13	F138	FB63	FB07	FB11	F132	FB25	F102	F111	F130	F134	F136	F154	F160
## 1	32	146	191	186	255	306	15	187	20	174	8	37	32	93	39
## 2	0	195	152	108	263	301	7	157	17	101	2	17	14	12	24
## 3	0	107	197	82	211	279	2	136	34	0	0	25	8	39	8
## 4	0	9	181	0	149	157	0	136	38	0	0	10	0	7	0
## 5	0	0	34	0	35	27	0	34	5	0	0	0	0	8	0
##	F162	<NA>	FB20	FB65	HIQQ	POOF	FB28	<NA>	FB09	FB33	ATNA	CWM3	NKLN	WTMA	FB48
## 1	38	0	184	234	15	16	83	0	215	215	2	23	4	15	38
## 2	25	9	194	292	13	5	193	0	180	198	0	19	2	0	90
## 3	11	2	190	245	31	2	67	0	158	190	6	16	12	0	36
## 4	31	0	202	146	37	0	47	0	11	157	1	20	9	0	2
## 5	6	0	29	30	5	0	17	0	0	29	0	4	0	0	0
##	F105	1054	<NA>	FB32	49C3	49LA	<NA>	DRAC	<NA>	F161	F164	<NA>	KMSN	MIDF	5NK2
## 1	7	2	0	121	9	44	0	1	0	1	26	0	3	5	4
## 2	8	0	0	170	0	26	0	0	0	0	52	0	0	4	0
## 3	1	0	0	0	0	2	0	0	2	0	116	0	0	8	0
## 4	0	0	0	0	0	0	0	0	0	0	125	0	0	6	0
## 5	0	0	0	0	0	0	0	0	0	0	27	0	0	1	0
##	<NA>	<NA>	MBAB	<NA>	<NA>	WTAB	<NA>	BTTV	<NA>	F147	F210	F237	<NA>	<NA>	FB84
## 1	0	0	2	0	0	2	0	19	0	11	3	26	0	0	144
## 2	0	0	1	0	2	0	0	2	0	0	18	70	0	1	111
## 3	0	1	1	0	9	3	0	0	0	0	14	161	0	0	0
## 4	0	0	1	0	2	0	0	0	0	0	0	69	0	2	0
## 5	0	0	0	0	0	0	0	0	0	0	0	26	0	0	0
##	CRAG	HVMS	LCKL	RUFF	FB59	FB83	FB02	C834	BBMB	LDL	LSMS	MCMA	PN06	F276	FB24
## 1	8	1	10	6	147	89	141	59	7	7	1	30	1	27	105
## 2	5	7	0	8	161	138	133	129	6	7	0	46	0	101	0
## 3	0	20	1	3	0	14	186	125	2	3	0	0	1	144	0
## 4	0	23	2	0	0	0	122	124	0	0	0	0	0	160	0
## 5	0	4	0	0	0	0	13	19	0	0	0	0	0	36	0
##	FB35	F182	DRSN	<NA>	F128	F131	DIPT	SLMS	2SDN	BBL2	BBLN	BTLN	CHK2	ETMA	<NA>
## 1	36	142	72	0	136	253	14	2	2	2	4	5	2	3	0
## 2	26	139	45	0	201	220	5	0	0	0	1	3	0	10	0
## 3	45	123	58	0	217	257	0	0	0	0	9	1	0	3	0
## 4	60	112	38	0	138	201	0	0	0	0	2	0	0	0	0
## 5	6	17	0	0	39	42	0	0	0	0	1	0	0	0	0
##	HNB	<NA>	JAGG	JIG3	KMBT	LOBE	MLTS	<NA>	<NA>	<NA>	<NA>	<NA>	SHOT	SURR	TFMS
## 1	2	0	3	7	1	3	4	0	0	0	0	0	6	3	2
## 2	1	0	0	1	0	0	1	0	1	1	0	0	3	0	0
## 3	3	0	0	2	0	0	3	0	0	0	0	1	2	0	0
## 4	1	0	0	3	0	0	1	0	0	1	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	TSMV	<NA>	<NA>	FB17	F110	F191	FB73	<NA>	<NA>	PSD2	PSDZ	<NA>	HSNS	<NA>	BIDF
## 1	9	0	0	49	59	34	20	0	0	2	1	0	7	0	1
## 2	17	0	0	32	92	15	19	0	0	0	0	0	2	0	1
## 3	16	0	0	26	85	0	0	0	0	0	0	0	7	0	0
## 4	23	0	0	0	74	0	0	0	0	1	0	0	11	0	2
## 5	4	0	0	0	16	0	0	0	0	0	0	0	5	0	1
##	<NA>	ETSC	FNOT	<NA>	<NA>	LGSC	<NA>	<NA>	MTMN	NLPS	PLUG	<NA>	TOTW	F183	THUB
## 1	0	1	1	0	0	1	0	0	15	1	6	0	1	58	3
## 2	2	0	0	1	0	0	1	0	0	0	3	1	2	90	2
## 3	8	0	0	0	0	0	0	0	0	4	22	0	0	26	0
## 4	8	0	0	1	0	0	0	0	0	2	9	2	0	0	0

##	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
##	F114	C791	FB26	FB34	F180	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	PKUP	<NA>	<NA>	SCOR	
##	1	143	11	46	37	64	0	0	0	0	0	1	0	0	1	
##	2	129	0	80	0	17	0	1	1	0	0	2	1	0	1	0
##	3	72	0	0	0	8	1	1	1	0	0	1	0	0	0	0
##	4	27	0	0	0	4	0	0	1	0	0	0	0	0	0	0
##	5	18	0	0	0	1	0	0	0	0	0	0	0	0	0	0
##	SPIK	FJSL	F117	<NA>	<NA>	ELFF	PN04	<NA>	TTM3	<NA>	LNST	<NA>	<NA>	<NA>	<NA>	
##	1	5	1	140	0	0	22	7	0	2	0	2	0	0	0	0
##	2	0	0	198	0	0	11	0	0	8	0	1	0	0	0	0
##	3	0	3	0	0	0	1	0	0	2	0	2	0	0	0	0
##	4	0	0	0	0	0	0	0	0	4	0	3	0	0	0	0
##	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	FB39	CMRS	CONC	CONS	F163	F181	HAIR	HITS	MSQ2	RTMW	<NA>	SPGT	TABB	MDNK	KNOB	
##	1	36	2	2	6	104	93	16	5	9	29	0	3	13	6	23
##	2	0	14	0	9	144	185	23	6	5	17	0	0	5	2	0
##	3	0	46	0	4	0	112	39	45	9	22	0	0	8	57	0
##	4	0	46	0	0	0	0	43	42	0	42	0	0	0	0	0
##	5	0	12	0	0	0	0	8	12	0	2	0	0	0	0	0
##	<NA>	<NA>	NIK2	<NA>	<NA>	BFWT	JAWS	<NA>	CHPC	<NA>	<NA>	ALHK	LHLV	<NA>	FB06	
##	1	0	0	4	0	0	6	9	0	1	0	0	8	1	0	162
##	2	0	1	0	0	0	0	0	0	1	0	0	9	1	0	208
##	3	0	0	2	0	0	0	0	0	0	0	0	10	4	0	83
##	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	<NA>	<NA>	FB87	<NA>	CKB2	1832	SUMO	F157	<NA>	SOLB	TCTV	IKNO	F101	<NA>	<NA>	
##	1	0	0	95	0	6	24	2	79	0	44	30	36	234	0	0
##	2	0	0	91	0	0	0	12	273	0	83	25	55	212	0	0
##	3	0	0	69	0	0	0	35	165	0	77	29	0	23	0	0
##	4	0	0	88	0	0	0	0	16	0	63	19	0	0	0	0
##	5	0	0	25	0	0	0	0	0	0	17	2	0	0	0	0
##	VRIP	HFLT	ZENN	<NA>	CLAW	AOTA	BKHO	<NA>	<NA>	<NA>	<NA>	F254	<NA>	MPTB	<NA>	
##	1	2	7	13	0	1	2	2	0	0	0	0	5	0	11	0
##	2	1	13	0	0	0	5	10	0	0	0	0	10	0	80	0
##	3	2	20	0	0	0	0	6	0	0	0	0	60	0	103	0
##	4	3	0	0	0	0	0	9	0	0	0	0	76	0	77	0
##	5	0	0	0	0	0	0	6	0	0	0	0	23	0	14	0
##	SHTC	TRIF	<NA>	<NA>	PHNE	PN10	PNSN	FEAT	LUMP	BEGR	MOCH	F116	SLIF	OTH_604	THOR	
##	1	4	4	0	0	11	5	3	4	6	95	16	17	1	1	8
##	2	96	1	0	0	0	4	1	2	0	117	0	0	0	0	0
##	3	7	3	0	0	0	0	0	9	0	134	0	0	0	0	0
##	4	0	4	0	0	0	0	0	2	0	313	0	0	0	0	0
##	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	F192	F194	MCM2	CATR	LFLA	OTH_199	TN3N	MTSS	SIMP	BRDO	RPPL	DTHB	GTFG	UPBK	MNIK	
##	1	52	45	3	4	7	1	1	19	6	24	4	1	6	3	3
##	2	97	101	0	2	2	0	0	12	0	22	0	0	2	0	14
##	3	0	56	0	0	0	0	0	4	19	0	0	3	2	2	2
##	4	0	80	0	1	0	0	0	9	12	0	0	1	0	2	0
##	5	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0
##	C652	THMN	RY34	TBTN	CCL4	F172	L106	C391	BTHV	NKNN	PNKD	C754	RTMC	WLDC	F149	
##	1	217	4	15	3	14	7	2	35	3	4	4	13	4	2	74
##	2	0	0	108	1	0	0	3	0	0	2	2	0	0	4	105
##	3	0	0	103	0	0	0	4	0	0	0	0	0	0	1	134
##	4	0	0	80	0	0	0	0	0	0	0	1	0	0	6	53

## 5	0	0	10	0	0	0	0	0	0	0	0	0	0	2	14
##	C595	C091	LEMS	C991	FB99	LBMA	PNTH	HNSC	LIWB	LCDB	TT00	TWHN	LWMN	LFLG	LDMA
## 1	81	1	1	18	21	48	1	2	1	4	6	1	4	2	11
## 2	0	0	0	25	108	0	0	0	0	0	0	2	7	3	13
## 3	0	0	0	94	10	0	0	0	0	0	0	5	0	1	35
## 4	0	0	0	45	0	0	0	0	0	0	0	2	0	0	17
## 5	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0
##	LNPF	WHIS	F141	FANT	LLIN	FTMW	GAFF	HAGR	PRFR	F174	FB58	MIDM	M145	MANT	ONIP
## 1	7	1	23	1	1	1	1	1	16	55	62	1	25	8	1
## 2	12	1	176	0	0	2	0	0	10	104	135	1	11	8	1
## 3	33	1	125	0	0	0	0	0	20	21	10	1	47	7	0
## 4	39	0	39	0	0	0	1	0	8	0	0	3	28	11	0
## 5	11	0	5	0	0	0	0	0	3	0	0	0	5	1	0
##	STDQ	TLN2	PSDQ	HBMB	ALIN	HIPC	HIPM	BARE	BOXX	CURD	LET2	MOPS	MTWN	NEWT	SBTT
## 1	1	1	17	11	1	1	8	4	1	1	1	1	1	1	1
## 2	0	0	16	25	0	0	3	3	0	0	0	0	0	4	0
## 3	0	0	25	36	0	0	2	1	0	0	0	0	1	0	0
## 4	0	0	22	24	0	0	0	4	0	0	0	0	1	7	0
## 5	0	0	4	7	0	0	0	0	0	0	0	0	1	1	0
##	TPLS	PN05	BRCH	LYLU	TNSL	TRNO	SUFL	CATW	CLOX	MM49	MSUM	SCKB	THNM	LBSL	LBSC
## 1	2	5	1	1	1	1	4	3	2	3	8	1	2	9	2
## 2	2	7	0	1	1	0	7	2	0	0	2	0	4	4	0
## 3	2	3	0	0	0	0	1	10	0	0	2	0	5	0	0
## 4	0	2	0	0	0	1	4	6	0	0	0	1	4	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	LBTY	LTET	HMLS	MM62	GWEN	KNNN	OTH_596	OTH_610	Q5LA	SPTL	F219	1452	CPS2	BTHS	
## 1	3	2	3	1	2	4	1	1	9	10	22	8	5	3	
## 2	0	0	0	0	5	6	0	0	8	0	19	0	0	3	
## 3	0	0	0	0	0	6	0	0	4	0	57	0	0	1	
## 4	0	0	0	0	0	3	0	0	9	0	58	0	0	3	
## 5	0	0	0	0	0	0	0	0	1	0	5	0	0	0	
##	F107	ANGL	GRIN	HMLA	PTHD	RCLA	SR0M	SUMM	HNLN	KLNN	SKIT	GRC1	GRC2	BTLE	CWM4
## 1	3	2	1	2	2	1	1	1	1	1	3	1	1	4	3
## 2	0	0	1	0	0	0	0	1	3	3	1	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	3	3	4	3	0	6	0	1	0	0	0	0	0	0
## 5	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
##	MSUC	USLN	RUBB	1535	MLOB	MLOC	OTH_487	OTH_441	F178	BOXR	OTH_422	OTH_373	THOC		
## 1	7	1	1	43	2	2	1	1	134	8	2	1	5		
## 2	3	0	0	4	6	0	0	0	246	46	0	0	0		
## 3	2	0	0	0	0	0	0	0	264	126	0	0	0		
## 4	0	0	0	0	0	0	0	0	142	111	0	0	0		
## 5	0	0	0	0	0	0	0	0	35	9	0	0	0		
##	OTH_601	F109	F127	MDLB	LBT1	BZPN	F231	F120	F124	LOTB	PPSL	LBHL	OTH_456		
## 1	1	129	109	2	1	2	1	7	9	1	1	2	1		
## 2	0	261	202	1	0	0	14	5	0	9	0	4	0		
## 3	0	264	186	1	0	0	29	9	0	10	0	2	0		
## 4	0	166	116	0	0	0	7	0	0	9	4	4	0		
## 5	0	44	0	0	0	0	0	0	0	0	0	0	0		
##	OTH_707	BUZM	JDLA	MTHS	OTH_591	CLIF	MNCB	TOT2	DEDO	F144	MDPK	NIPP	IKNC	WAVE	
## 1	1	1	1	1	1	2	3	2	1	80	13	1	1	1	
## 2	0	0	1	0	0	4	0	1	3	0	0	1	0	1	
## 3	0	0	3	0	0	5	0	0	0	0	0	1	0	3	
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	

## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	EFHT	MRMS	CSTK	LSPL	SBPE	C717	LAT2	TNFG	DMDI	F188	C073	TEEN	F159	WAND	F198
## 1	2	1	1	4	3	16	3	3	4	115	31	21	131	2	88
## 2	0	3	0	2	5	0	1	0	0	151	0	0	56	84	233
## 3	0	1	0	0	3	0	0	0	0	267	0	0	291	13	237
## 4	0	0	0	0	0	0	0	0	0	138	0	0	184	0	142
## 5	0	0	0	0	0	0	0	0	0	36	0	0	23	0	0
##	PSB2	PSBZ	PHIN	F148	C574	F184	JOSE	F202	INHF	KATT	ROOS	RP61	C755	F113	F190
## 1	1	1	16	172	23	48	43	6	1	3	1	1	1	132	57
## 2	0	0	0	189	0	38	85	1	0	1	6	2	0	271	171
## 3	0	0	0	264	0	0	25	1	0	1	0	1	0	274	85
## 4	0	0	0	161	0	0	0	0	0	0	0	4	0	150	38
## 5	0	0	0	41	0	0	0	0	0	0	0	0	0	21	7
##	XYLO	C295	MSLB	TDTL	BTOK	LPSK	F152	GALO	WORM	F186	FLTP	FB70	BTMV	MTMS	MOFG
## 1	2	13	40	3	1	4	85	2	10	61	1	1	1	1	1
## 2	0	0	0	16	0	1	10	7	1	103	0	0	0	0	0
## 3	1	0	0	22	0	0	0	2	0	0	0	0	0	0	0
## 4	0	0	0	30	0	0	0	3	0	0	0	0	0	0	1
## 5	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0
##	F146	CTS2	MSQL	PSC3	BTCH	DIGT	PORT	LTS2	LTSM	ALKC	CHMA	PN03	BRD2	C871	PROF
## 1	138	2	1	1	7	5	3	1	1	1	1	1	18	56	1
## 2	314	0	0	7	0	7	0	0	0	0	2	0	9	56	0
## 3	305	0	0	8	0	0	1	0	0	0	0	0	0	0	3
## 4	165	0	0	15	0	0	0	0	0	0	0	0	0	0	2
## 5	33	0	0	2	0	0	0	0	0	0	0	0	0	0	0
##	STMN	VTHN	SLLP	INDT	BTTN	SOLS	LACH	OTH_164	OTH_208	RNMA	F170	FNGD	HTHR	PRGO	
## 1	1	1	2	1	1	1	4		1	1	3	1	1	1	1
## 2	0	0	0	0	0	2	2		0	0	1	1	0	0	0
## 3	1	1	0	0	0	3	0		0	0	4	0	0	0	0
## 4	0	0	0	0	0	3	0		0	0	0	1	0	0	0
## 5	0	0	0	0	0	0	0		0	0	0	0	0	0	0
##	WAAA	WOTN	CRUM	MUCH	NIPN	BBUK	LBLT	LEMO	LSPO	PUMP	SGLA	TSMN	TULP	BOZO	FLLN
## 1	1	3	1	3	2	2	2	1	1	30	8	1	1	1	1
## 2	0	9	2	1	10	0	0	0	12	1	2	1	0	0	0
## 3	0	0	0	9	4	1	0	0	0	0	2	0	0	0	0
## 4	0	0	8	16	2	0	0	0	0	0	7	0	0	0	0
## 5	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
##	MOML	HSN2	SMUS	BSLV	UPBT	HILB	MORN	C272	F142	JOSC	HANG	F126	STIP	WHIT	LBLK
## 1	1	1	1	1	1	1	1	43	36	22	5	1	1	1	1
## 2	0	0	1	0	3	2	6	0	108	87	11	18	0	3	5
## 3	0	0	0	0	0	1	4	0	144	51	2	41	0	0	0
## 4	0	0	1	0	0	3	10	0	150	62	0	36	0	0	0
## 5	0	0	0	0	0	0	0	0	33	0	0	7	0	0	0
##	IKN2	PRFC	APEM	HMTN	SBDO	RTM2	PLG2	MJMA	MJMC	OTH_228	RNMK	DAND	LNPC	TWIG	XNDU
## 1	21	4	1	3	12	4	1	2	2		1	1	2	4	1
## 2	94	0	1	1	98	18	0	13	0		0	0	4	12	0
## 3	120	0	1	1	36	49	0	0	0		0	0	0	39	0
## 4	77	0	0	1	0	21	0	0	0		0	9	0	39	0
## 5	17	0	0	0	0	2	0	0	0		0	3	0	6	0
##	PECS	ULYS	ZOEY	IVTA	NACK	POET	R27L	TAL2	YAH0	HBUT	HOKA	OTH_692	LIZD	SCOB	SKIL
## 1	4	1	1	1	1	1	1	1	1	3	1		1	3	1
## 2	6	9	2	1	6	4	8	1	1	5	0		0	41	0
## 3	0	40	1	0	2	3	4	6	1	0	5		0	15	0
## 4	0	38	3	0	3	3	8	2	1	0	5		0	16	0

## 5	0	10	2	0	0	0	1	0	0	0	0	0	3	0	1
##	PRTF	TUNL	GIDN	OCTV	BUMI	ICEB	KNIK	KOKO	ZRBA	ALH2	MNC2	CURL	F193	FHIS	UDOG
## 1	2	1	1	1	1	1	1	1	8	1	1	1	1	1	1
## 2	3	2	4	4	0	0	10	2	103	0	0	0	0	1	0
## 3	0	2	0	1	0	0	0	2	20	0	0	0	42	0	0
## 4	0	0	0	4	0	0	0	9	0	0	0	0	56	0	0
## 5	0	0	0	1	0	0	0	2	0	0	0	0	5	0	0
##	MYST	TKID	CAES	BIGB	MUCC	OTH_419	PIHI	SCSM	ANOK	TPLO	HSLR	QCHE	ZVGO	F115	
## 1	1	1	1	1	1		1	2	1	1	1	1	2	19	
## 2	1	7	2	0	0		0	1	8	0	0	1	0	3	8
## 3	4	14	2	0	0		0	0	29	1	0	0	0	0	0
## 4	3	12	0	0	0		0	7	52	0	0	0	0	0	0
## 5	0	2	0	0	0		0	5	11	0	0	0	0	0	0
##	OTH_606	MVON	OTH_402	SNSC	F166	F196	F176	C931	WHOO	WINN	LDNK	OTH_485	SEWF		
## 1	1	3	1	1	17	25	6	10	6	2	1	1	1		
## 2	0	7	1	0	0	218	94	0	47	6	0	0	3		
## 3	0	0	0	0	0	288	95	0	16	2	0	0	2		
## 4	0	0	0	0	0	171	70	0	8	0	0	0	0		
## 5	0	0	0	0	0	35	20	0	0	0	0	0	0		
##	UWHO	BALE	HLBP	TDDP	2102	C296	F125	F216	ERKA	MFLC	MFLG	F248	F123	C596	BIKO
## 1	1	1	1	1	2	2	20	15	1	1	1	1	13	9	1
## 2	0	0	0	0	0	0	211	86	1	1	0	45	165	111	21
## 3	1	0	0	0	0	0	195	0	0	5	0	131	202	160	4
## 4	0	0	0	0	0	0	160	0	0	9	1	80	155	12	14
## 5	1	0	0	0	0	0	39	0	0	2	0	13	37	0	1
##	AFLY	BOOM	FRST	KEEB	NARW	1833	C835	SET2	TNMI	CHMP	AAXE	<NA>	<NA>	<NA>	<NA>
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## 2	1	0	0	0	0	75	121	2	0	0	2	2	1	2	3
## 3	0	0	0	0	0	35	111	0	0	0	2	1	0	0	0
## 4	0	0	0	0	0	0	89	0	0	0	3	0	0	0	0
## 5	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0
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## 2	1	1	21	2	1	87	2	2	21	238	135	37	3	108	163
## 3	0	0	2	1	0	0	4	0	20	117	0	0	0	0	202
## 4	0	0	2	0	0	0	1	0	10	0	0	0	0	0	92
## 5	0	0	0	0	0	0	0	0	3	0	0	0	0	0	15
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## 2	280	10	286	152	1	17	59	6	1	179	24	1	1	1	39
## 3	253	0	365	0	0	0	8	6	0	0	6	0	0	0	0
## 4	98	0	159	0	0	0	0	8	0	0	5	0	0	0	0
## 5	37	0	40	0	0	0	0	0	0	0	0	0	0	0	0
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## 2	237	1	61	8	1	3	3	1	5	1	3	1	3	5	4
## 3	253	0	0	0	0	0	0	0	3	0	2	0	1	1	0
## 4	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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## 3	0	0	0	0	0	0	22	0	0	6	0	0	0	2	41
## 4	0	6	2	0	0	1	12	0	0	11	0	0	0	1	33

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## 2	2	1	100	6	1	1	1	1	1	2	4	1	93	96	3
## 3	4	7	180	0	0	0	0	0	0	3	0	0	184	230	1
## 4	0	16	126	3	0	0	0	0	0	0	0	0	196	167	0
## 5	0	1	14	1	0	0	0	0	0	0	0	0	28	34	0
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## 3	6	2	0	2	0	1	0	0	4	47	103	5	5	9	1
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## 2	2	9	1	2	91	1	1	156	1	229	5	14	167	1	1
## 3	0	6	0	6	248	0	0	13	0	192	0	0	41	0	1
## 4	0	12	0	0	35	0	0	0	0	105	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0
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## 2	1	1	228	14	20	20	2	1	20	1	1	2	12	6	150
## 3	0	3	216	2	4	25	0	1	31	0	0	1	52	0	238
## 4	4	1	171	0	0	12	0	0	0	0	0	1	16	0	91
## 5	1	1	31	0	0	13	0	0	0	0	0	0	5	0	16
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## 2	83	49	18	18	16	11	7	6	1	4	1	5	1	4	6
## 3	77	0	63	60	0	0	41	57	1	5	0	5	1	0	0
## 4	114	0	13	8	0	0	9	41	0	1	0	8	0	0	0
## 5	29	0	9	0	0	0	0	11	0	0	0	0	0	0	0
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## 4	0	0	0	0	0	0	1	0	0	0	0	1	0	1	8
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## 3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
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## 3	0	1	0	1	0	0	0	0	0	0	0	0	18	1	0
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## 3	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0
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## 3	0	0	0	27	0	0	4	2	3	0	0	0	0	4	5
## 4	0	0	0	7	0	0	3	5	4	3	0	0	0	2	8
## 5	0	0	0	1	0	0	0	0	3	1	0	0	0	0	0
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## 3	8	0	0	0	0	24	0	0	0	0	0	4	4	7	0
## 4	2	0	0	0	0	15	0	1	0	0	1	2	0	0	0
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## 3	2	0	0	1	0	0	0	0	23	41	7	0	2	0	0
## 4	0	0	0	0	0	0	0	0	16	9	0	0	0	0	0
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## 3	1	0	0	0	0	0	0	0	0	6	0	3	3	0	0
## 4	0	0	0	0	0	0	0	5	0	8	0	3	3	0	0
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## 3	159	0	0	61	0	33	0	14	0	0	336	276	43	9	1
## 4	119	0	0	0	0	23	10	10	0	0	56	88	0	8	0
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## 3	81	0	1	2	1	155	0	0	275	78	254	248	1	0	4
## 4	0	0	0	7	0	130	0	0	238	0	133	130	0	0	0
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## 3	8	0	4	0	0	0	6	0	0	0	0	1	3	0	1
## 4	7	0	0	0	0	0	10	1	0	0	0	0	1	1	0
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## 3	2	3	42	43	3	0	2	0	205	8	0	0	0	0	0
## 4	0	0	32	0	0	5	3	0	222	10	0	0	5	1	0
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## 3	0	6	277	0	6	2	5	0	8	33	5	27	0	0	0
## 4	0	0	182	0	0	5	1	0	0	0	0	13	0	0	0

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## 4	127	73	0	0	0	8	0	0	0	1	0	1	0	0	0
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## 4	32	24	0	0	0	7	0	0	0	0	0	0	148	0	59
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## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	2	6	10	3	1	2	1	2	73	9	2	32	1	3	2
## 5	0	0	1	1	0	0	0	0	7	2	0	9	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	4	4	2	2	2	1	1	1	2	1	2	3	2	1	1

## 5	4	0	0	1	0	0	0	0	0	0	0	3	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	4	6	1	2	1	2	6	2	1	3	1	1	1	1	1
## 5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	4	1	1	2	4	4	1	5	4	2	2	1	1	1
## 5	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	2	2	2	3	2	1	5	2	4	2	1	1	1	3	1
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	6	2	2	2	1	1	5	1	1	1	6	2	15	4	2
## 5	0	0	0	0	1	0	0	0	0	0	0	0	6	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	2	2	1	60	1	2	1	2	1	1	21	6	56	5	1
## 5	0	0	0	30	0	1	0	0	0	0	17	0	12	6	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	65	1	5	12	1	6	3	5	6	5	18	2	1	83	1
## 5	35	0	2	0	0	1	0	0	3	0	6	0	0	40	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	7	1	1	1	43	11	6	11	2	5	2	76	1	8
## 5	0	3	0	0	0	16	5	0	9	2	3	0	29	0	6
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	6	2	2	1	9	6	1	1	36	3	1	20	1	2	7
## 5	1	0	0	0	6	0	0	0	10	2	0	12	0	0	2
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	1	1	1	1	1	1	1	1	28	2	13	2	4	3

## 5	0	0	0	0	0	0	0	0	0	21	0	3	0	0	2
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	6	2	1	3	1	1	86	1	1	1	3	1	19	77	71
## 5	6	0	0	1	0	0	47	0	0	0	4	0	0	27	35
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	35	3	1	4	1	1	87	2	30	2	2	2	1	54	3
## 5	29	0	0	4	0	0	25	0	11	0	0	0	0	27	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	56	7	1	3	3	1	1	1	1	12	2	3	17	1	1
## 5	40	6	0	4	0	0	0	0	0	2	1	1	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	1	1	1	2	2	1	63	4	7	2	1	1	1	1
## 5	0	0	0	0	1	0	0	31	1	5	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	1	1	7	1	1	2	2	2	1	1	1	3	1	2
## 5	0	0	0	4	0	0	0	0	1	0	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	1	1	2	1	4	4	7	6	1	1	2	2	2	3
## 5	0	0	0	0	0	3	1	3	5	0	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	3	2	32	45	7	7	1	1	3	1	1	20	6	3	1
## 5	0	0	8	41	0	1	0	0	0	0	0	23	0	1	2
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	33	5	25	2	2	1	2	1	3	3	4	3	3	3	1
## 5	0	0	17	1	0	1	9	0	13	0	9	0	10	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	4	3	1	1	27	11	32	8	1	3	3	6	1	36	6

[illegible]


```
## 5      1      2      1      1      1      1      6      1      1      1
```

```
# Transforming into binary matrices
```

```
p5y <- as.matrix(p5y); p5y[which(p5y>=1)] = 1; p5y[which(p5y<1)] = 0
```

```
# ----- 4 sets of 6 year increments-----
```

```
# Make a list of 6 years per dataframe
```

```
sample_data$SixYearIncrement <- cut(sample_data$Year, breaks = seq(min(sample_data$Year), max(sample_da
```

```
list_sixyears <- split(sample_data, sample_data$SixYearIncrement)
```

```
# Apply the count_instances function to each two years
```

```
instances_per_sixyear <- lapply(list_sixyears, count_instances)
```

```
# Convert the list of counts to a data frame
```

```
p6y <- do.call(rbind, instances_per_sixyear)
```

```
p6y
```

```
##      FB41 FB05 FB36 FB38 FB55 FB96 FB98 F108 F153 FB15 FB23 FB78 FB93 F155 FB01
## 1      67   189   228   241   205   88   38   73   100   145   68   151   138   283   225
## 2       0   221   157     0   284   24    0   77   80   189    0   143   202   237   172
## 3       0    56   130     0   165    0    0   107  104   196    0   177   166   232    0
## 4       0     0     0     0   107    0    0   37   67   72    0   70   28   101    0
##      FB43 FB92 F118 F122 FB29 <NA> FB54 FB71 FB90 F100 F119 FB14 FB27 <NA> FB57
## 1   112   219   309   165   131    0   369   87   335   154   277   195   178    0   103
## 2   122   235   280     0     0    0   321    0   347   172   195   311   198    0    0
## 3   164   242   233     0     0    0   185    0   309    4    0   14   123    0    0
## 4     7    95     3     0     0    0   112    0   88    0    0    0   84    0    0
##      FB66 FB76 FB94 F112 FB12 FB03 <NA> F106 FB44 FB62 F175 FB10 FB46 FB75 FB79
## 1   186   179   233   55   66   191    0   233   153   115   268   228   206   157   230
## 2   306   287   313     0     0   210    0   224   69    0   329   226   152   234   215
## 3   110     0     0     0     0    0    0   138   81    0   271   143    0    3   292
## 4    33     0     0     0     0    0    0    0   55    0   125   62    0    0   81
##      FB60 FB13 F138 FB63 FB07 FB11 F132 FB25 F102 F111 F130 F134 F136 F154 F160
## 1    32   189   203   196   288   336   15   218   22   193    8   40   36   93   45
## 2     0   187   198   142   288   353    7   177   21   82    2   22   18   24   23
## 3     0    81   235   38   237   285    2   167   50    0    0   27    0   29    3
## 4     0     0   119    0   100   96    0   88   21    0    0    0    0   13    0
##      F162 <NA> FB20 FB65 HIQQ POOF FB28 <NA> FB09 FB33 ATNA CWM3 NKLN WTMA FB48
## 1    46     0   204   268   16   16   108    0   230   240    2   31    4   15   47
## 2    20    11   233   329   17    5   186    0   224   240    0   13    3    0   93
## 3    25     0   241   259   47    2   76    0   110   198    6   27   20    0   26
## 4    20     0   121   91   21    0   37    0    0   111    1   11    0    0    0
##      F105 1054 <NA> FB32 49C3 49LA <NA> DRAC <NA> F161 F164 <NA> KMSN MIDF 5NK2
## 1    11     2     0   143    9   48    0    1    0    1   27    0    3    5    4
## 2     5     0     0   148    0   24    0    0    0    0   98    0    0    4    0
## 3     0     0     0     0    0    0    0    0    0    2    0   126    0    0   12    0
## 4     0     0     0     0    0    0    0    0    0    0   95    0    0    3    0
##      <NA> <NA> MBAB <NA> <NA> WTAB <NA> BTTV <NA> F147 F210 F237 <NA> <NA> FB84
## 1     0     0     2     0     0     2     0   21    0   11    4   31    0    0   164
## 2     0     0     1     0     3     1     0    0    0    0   21   95    0    1    91
## 3     0     1     2     0    10     2     0    0    0    0   10  170    0    1    0
## 4     0     0     0     0     0     0     0    0    0    0    0   56    0    1    0
##      CRAG HVMS LCKL RUFF FB59 FB83 FB02 C834 BBMB LDSL LSMS MCMA PN06 F276 FB24
## 1    10     3    10     8   166   120   155   82    8    8    1   37    1   42   105
## 2     3     7     0     9   142   121   174   132    7    8    0   39    0   112    0
```

## 3	0	33	2	0	0	0	196	163	0	1	0	0	1	195	0
## 4	0	12	1	0	0	0	70	79	0	0	0	0	0	119	0
##	FB35	F182	DRSN	<NA>	F128	F131	DIPT	SLMS	2SDN	BBL2	BBLN	BTLN	CHK2	ETMA	<NA>
## 1	42	166	91	0	167	282	14	2	2	2	4	5	2	9	0
## 2	28	152	48	0	222	258	5	0	0	0	2	4	0	5	0
## 3	73	147	74	0	244	298	0	0	0	0	9	0	0	2	0
## 4	30	68	0	0	98	135	0	0	0	0	2	0	0	0	0
##	HNBT	<NA>	JAGG	JIG3	KMBT	LOBE	MLTS	<NA>	<NA>	<NA>	<NA>	<NA>	SHOT	SURR	TFMS
## 1	3	0	3	7	1	3	4	0	0	0	0	0	6	3	2
## 2	0	0	0	2	0	0	2	0	1	1	0	0	4	0	0
## 3	4	0	0	3	0	0	3	0	0	1	0	1	1	0	0
## 4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
##	TSMV	<NA>	<NA>	FB17	F110	F191	FB73	<NA>	<NA>	PSD2	PSDZ	<NA>	HSNS	<NA>	BIDF
## 1	12	0	0	53	73	38	21	0	0	2	1	0	7	0	1
## 2	15	0	0	49	100	11	18	0	0	0	0	0	3	0	1
## 3	35	0	0	5	106	0	0	0	0	0	0	0	9	0	1
## 4	7	0	0	0	47	0	0	0	0	1	0	0	13	0	2
##	<NA>	ETSC	FNOT	GFSO	<NA>	LGSC	MOL2	<NA>	MTMN	NLPS	PLUG	<NA>	TOTW	F183	THUB
## 1	0	1	1	1	0	1	1	0	15	1	6	0	1	79	3
## 2	3	0	0	0	0	0	0	0	0	1	3	1	2	94	2
## 3	15	0	0	0	0	0	0	0	0	4	29	1	0	1	0
## 4	0	0	0	2	0	0	0	0	0	1	2	1	0	0	0
##	F114	C791	FB26	FB34	F180	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	PKUP	<NA>	<NA>	SCOR
## 1	162	11	54	37	66	0	0	0	0	0	0	1	0	0	1
## 2	129	0	72	0	15	0	1	1	0	0	2	1	0	1	0
## 3	69	0	0	0	10	1	1	2	0	0	1	0	0	0	0
## 4	29	0	0	0	3	0	0	0	0	0	0	0	0	0	0
##	SPIK	FJSL	F117	<NA>	<NA>	ELFF	PN04	<NA>	TTM3	<NA>	LNST	<NA>	<NA>	<NA>	<NA>
## 1	5	1	184	0	0	23	7	0	4	0	2	0	0	0	0
## 2	0	2	154	0	0	10	0	0	7	0	2	0	0	0	0
## 3	0	1	0	0	0	1	0	0	5	0	3	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
##	FB39	CMRS	CONC	CONS	F163	F181	HAIR	HITS	MSQ2	RTMW	<NA>	SPGT	TABB	MDNK	KNOB
## 1	36	2	2	7	124	112	16	5	9	30	0	3	14	6	23
## 2	0	36	0	12	124	208	34	26	11	27	0	0	6	12	0
## 3	0	52	0	0	0	70	52	52	3	35	0	0	6	47	0
## 4	0	30	0	0	0	0	27	27	0	20	0	0	0	0	0
##	<NA>	<NA>	NIK2	<NA>	<NA>	BFWT	JAWS	<NA>	CHPC	<NA>	<NA>	ALHK	LHLV	<NA>	FB06
## 1	0	0	4	0	0	6	9	0	2	0	0	8	1	0	190
## 2	0	1	1	0	0	0	0	0	0	0	0	12	1	0	249
## 3	0	0	1	0	0	0	0	0	0	0	0	7	4	0	14
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	<NA>	<NA>	FB87	<NA>	CKB2	1832	SUMO	F157	<NA>	SOLB	TCTV	IKNO	F101	<NA>	<NA>
## 1	0	0	116	0	6	24	3	98	0	55	34	63	279	0	0
## 2	0	0	82	0	0	0	25	315	0	93	28	28	190	0	0
## 3	0	0	106	0	0	0	21	120	0	93	33	0	0	0	0
## 4	0	0	64	0	0	0	0	0	0	43	10	0	0	0	0
##	VRIP	HFLT	ZENN	<NA>	CLAW	AOTA	BKHO	<NA>	<NA>	<NA>	<NA>	F254	<NA>	MPTB	<NA>
## 1	2	10	13	0	1	3	4	0	0	0	0	7	0	13	0
## 2	2	17	0	0	0	4	10	0	0	0	0	33	0	106	0
## 3	3	13	0	0	0	0	7	0	0	0	0	78	0	121	0
## 4	1	0	0	0	0	0	12	0	0	0	0	56	0	45	0
##	SHTC	TRIF	<NA>	<NA>	PHNE	PN10	PNSN	FEAT	LUMP	BEGR	MOCH	F116	SLIF	OTH_604	THOR
## 1	15	4	0	0	11	7	4	4	6	103	16	17	1	1	8

## 2	92	2	0	0	0	2	0	3	0	144	0	0	0	0	0
## 3	0	3	0	0	0	0	0	10	0	382	0	0	0	0	0
## 4	0	3	0	0	0	0	0	0	0	30	0	0	0	0	0
##	F192	F194	MCM2	CATR	LFLA	OTH_199	TN3N	MTSS	SIMP	BRDO	RPPL	DTHB	GTFG	UPBK	MNIK
## 1	78	67	3	5	7	1	1	21	6	24	4	1	6	3	9
## 2	71	96	0	1	2	0	0	10	6	22	0	0	3	0	10
## 3	0	102	0	1	0	0	0	9	22	0	0	3	1	3	0
## 4	0	17	0	0	0	0	0	5	6	0	0	1	0	1	0
##	C652	THMN	RY34	TBTN	CCL4	F172	L106	C391	BTHV	NKNN	PNKD	C754	RTMC	WLDC	F149
## 1	217	4	20	4	14	7	3	35	3	4	4	13	4	2	82
## 2	0	0	128	0	0	0	3	0	0	2	2	0	0	4	127
## 3	0	0	123	0	0	0	3	0	0	0	1	0	0	5	142
## 4	0	0	45	0	0	0	0	0	0	0	0	0	0	4	29
##	C595	C091	LEMS	C991	FB99	LBMA	PNTH	HNSC	LIWB	LCDB	TTOO	TWHN	LWMN	LFLG	LDMA
## 1	81	1	1	20	23	48	1	2	1	4	6	1	5	3	11
## 2	0	0	0	61	116	0	0	0	0	0	0	3	6	3	24
## 3	0	0	0	83	0	0	0	0	0	0	0	5	0	0	41
## 4	0	0	0	33	0	0	0	0	0	0	0	1	0	0	0
##	LNPF	WHIS	F141	FANT	LLIN	FTMW	GAFF	HAGR	PRFR	F174	FB58	MIDM	M145	MANT	ONIP
## 1	9	2	29	1	1	1	1	1	20	68	78	1	27	11	2
## 2	17	1	202	0	0	2	0	0	7	111	129	1	18	6	0
## 3	48	0	119	0	0	0	0	0	26	1	0	1	56	13	0
## 4	28	0	18	0	0	0	1	0	4	0	0	3	15	5	0
##	STDQ	TLN2	PSDQ	HBMB	ALIN	HIPC	HIPM	BARE	BOXX	CURD	LET2	MOPS	MTWN	NEWT	SBTT
## 1	1	1	22	14	1	1	9	5	1	1	1	1	1	3	1
## 2	0	0	13	25	0	0	2	3	0	0	0	0	1	2	0
## 3	0	0	39	49	0	0	2	2	0	0	0	0	1	4	0
## 4	0	0	10	15	0	0	0	2	0	0	0	0	1	4	0
##	TPLS	PN05	BRCH	LYLU	TNSL	TRNO	SUFL	CATW	CLOX	MM49	MSUM	SCKB	THNM	LBLS	LBSC
## 1	3	7	1	1	1	1	7	3	2	3	9	1	4	10	2
## 2	2	5	0	1	1	0	5	4	0	0	2	0	3	3	0
## 3	1	5	0	0	0	1	3	12	0	0	1	1	7	0	0
## 4	0	0	0	0	0	0	1	2	0	0	0	0	1	0	0
##	LBTY	LTET	HMLS	MM62	GWEN	KNNN	OTH_596	OTH_610	Q5LA	SPTL	F219	1452	CPS2	BTHS	
## 1	3	2	3	1	7	6	1	1	12	10	22	8	5	3	
## 2	0	0	0	0	0	5	0	0	5	0	33	0	0	4	
## 3	0	0	0	0	0	7	0	0	9	0	71	0	0	1	
## 4	0	0	0	0	0	1	0	0	5	0	35	0	0	2	
##	F107	ANGL	GRIN	HMLA	PTHD	RCLA	SROM	SUMM	HNLN	KLNN	SKIT	GRC1	GRC2	BTLE	CWM4
## 1	3	2	1	2	2	1	1	1	1	1	4	1	1	4	3
## 2	0	0	1	0	0	0	0	1	3	3	0	0	0	0	0
## 3	0	2	3	3	3	0	6	0	0	0	0	0	0	0	0
## 4	0	2	0	2	0	0	0	0	1	0	0	0	0	0	0
##	MSUC	USLN	RUBB	1535	MLOB	MLOC	OTH_487	OTH_441	F178	BOXR	OTH_422	OTH_373	THOC		
## 1	9	1	1	47	2	2	1	1	159	11	2	1	5		
## 2	1	0	0	0	6	0	0	0	296	70	0	0	0		
## 3	2	0	0	0	0	0	0	0	270	169	0	0	0		
## 4	0	0	0	0	0	0	0	0	96	50	0	0	0		
##	OTH_601	F109	F127	MDLB	LBT1	BZPN	F231	F120	F124	LOTB	PPSL	LBHL	OTH_456		
## 1	1	167	152	3	1	2	2	7	9	1	1	2	1		
## 2	0	278	191	0	0	0	20	14	0	14	0	5	0		
## 3	0	292	252	1	0	0	28	0	0	12	3	4	0		
## 4	0	127	18	0	0	0	1	0	0	2	1	1	0		
##	OTH_707	BUZM	JDLA	MTHS	OTH_591	CLIF	MNCB	TOT2	DEDO	F144	MDPK	NIPP	IKNC	WAVE	

## 1	1	1	1	1	1	2	3	2	1	80	13	1	1	2	
## 2	0	0	2	0	0	5	0	1	3	0	0	1	0	1	
## 3	0	0	2	0	0	4	0	0	0	0	0	1	0	3	
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	EFHT	MRMS	CSTK	LSPL	SBPE	C717	LAT2	TNFG	DMDI	F188	C073	TEEN	F159	WAND	F198
## 1	2	1	1	4	4	16	3	3	4	137	31	21	136	4	110
## 2	0	4	0	2	4	0	1	0	0	205	0	0	137	95	272
## 3	0	0	0	0	3	0	0	0	0	269	0	0	288	0	270
## 4	0	0	0	0	0	0	0	0	0	96	0	0	124	0	48
##	PSB2	PSBZ	PHIN	F148	C574	F184	JOSE	F202	INHF	KATT	ROOS	RP61	C755	F113	F190
## 1	1	1	16	191	23	56	61	6	1	3	1	1	1	155	76
## 2	0	0	0	232	0	30	91	2	0	2	6	3	0	324	182
## 3	0	0	0	284	0	0	1	0	0	0	0	1	0	267	80
## 4	0	0	0	120	0	0	0	0	0	0	0	3	0	102	20
##	XYLO	C295	MSLB	TDTL	BTOK	LPSK	F152	GALO	WORM	F186	FLTP	FB70	BTMV	MTMS	MOFG
## 1	2	13	40	6	1	4	95	5	11	81	1	1	1	1	1
## 2	0	0	0	17	0	1	0	6	0	83	0	0	0	0	0
## 3	1	0	0	34	0	0	0	2	0	0	0	0	0	0	1
## 4	0	0	0	18	0	0	0	1	0	0	0	0	0	0	0
##	F146	CTS2	MSQL	PSC3	BTCH	DIGT	PORT	LTS2	LTSM	ALKC	CHMA	PN03	BRD2	C871	PROF
## 1	168	2	1	3	7	5	3	1	1	1	1	1	20	72	1
## 2	381	0	0	5	0	7	1	0	0	0	2	0	7	40	2
## 3	292	0	0	19	0	0	0	0	0	0	0	0	0	0	1
## 4	114	0	0	6	0	0	0	0	0	0	0	0	0	0	2
##	STMN	VTHN	SLLP	INDT	BTTN	SOLS	LACH	OTH_164	OTH_208	RNMA	F170	FNGD	HTHR	PRGO	
## 1	1	1	2	1	1	1	4		1	1	3	1	1	1	1
## 2	0	0	0	0	0	2	2		0	0	4	1	0	0	0
## 3	1	1	0	0	0	6	0		0	0	1	1	0	0	0
## 4	0	0	0	0	0	0	0		0	0	0	0	0	0	0
##	WAAA	WOTN	CRUM	MUCH	NIPN	BBUK	LBLT	LEMO	LSPO	PUMP	SGLA	TSMN	TULP	BOZO	FLLN
## 1	1	6	1	4	4	2	2	1	12	31	8	1	1	1	1
## 2	0	6	2	2	9	0	0	0	1	0	3	1	0	0	0
## 3	0	0	5	14	5	1	0	0	0	0	7	0	0	0	0
## 4	0	0	3	14	0	0	0	0	0	0	1	0	0	0	0
##	MOML	HSN2	SMUS	BSLV	UPBT	HILB	MORN	C272	F142	JOSC	HANG	F126	STIP	WHIT	LBLK
## 1	1	1	2	1	3	1	5	43	58	38	7	2	1	1	1
## 2	0	0	0	0	1	2	3	0	120	93	11	33	0	3	5
## 3	0	0	0	0	0	3	9	0	177	70	0	47	0	0	0
## 4	0	0	1	0	0	1	4	0	116	21	0	21	0	0	0
##	IKN2	PRFC	APEM	HMTN	SBDO	RTM2	PLG2	MJMA	MJMC	OTH_228	RNMK	DAND	LNPC	TWIG	XNDU
## 1	45	4	1	3	30	4	1	5	2		1	1	4	6	1
## 2	105	0	1	1	116	29	0	10	0		0	0	2	20	0
## 3	135	0	1	2	0	53	0	0	0		0	6	0	57	0
## 4	44	0	0	0	0	8	0	0	0		0	6	0	17	0
##	PECS	ULYS	ZOEY	IVTA	NACK	POET	R27L	TAL2	YAH0	HBUT	HOKA	OTH_692	LIZD	SCOB	SKIL
## 1	4	2	1	2	1	2	1	1	2	3	1		1	15	1
## 2	6	23	2	0	7	3	9	3	0	5	0		0	37	0
## 3	0	48	3	0	3	5	7	6	1	0	9		0	16	0
## 4	0	25	3	0	1	1	5	0	1	0	1		0	10	0
##	PRTF	TUNL	GIDN	OCTV	BUMI	ICEB	KNIK	KOKO	ZRBA	ALH2	MNC2	CURL	F193	FHIS	UDOG
## 1	2	1	2	2	1	1	11	2	26	1	1	1	1	1	1
## 2	3	2	3	3	0	0	0	3	102	0	0	0	7	1	0
## 3	0	2	0	3	0	0	0	8	3	0	0	0	78	0	0
## 4	0	0	0	3	0	0	0	3	0	0	0	0	18	0	0

##	MYST	TKID	CAES	BIGB	MUCC	OTH_419	PIHI	SCSM	ANOK	TPLO	HSLR	QCHE	ZVGO	F115	
## 1	2	2	1	1	1		1	2	4	1	1	2	1	3	22
## 2	2	9	2	0	0		0	1	10	0	0	0	0	2	5
## 3	5	17	2	0	0		0	4	54	1	0	0	0	0	0
## 4	0	8	0	0	0		0	8	33	0	0	0	0	0	0
##	OTH_606	MVON	OTH_402	SNSC	F166	F196	F176	C931	WHOO	WINN	LDNK	OTH_485	SEWF		
## 1		1	5		1	1	17	68	10	10	13	3	1		1
## 2		0	5		1	0	0	242	123	0	45	5	0		4
## 3		0	0		0	0	0	313	97	0	19	2	0		1
## 4		0	0		0	0	0	114	55	0	0	0	0		0
##	UWHO	BALE	HLBP	TDDP	2102	C296	F125	F216	ERKA	MFLC	MFLG	F248	F123	C596	BIKO
## 1	1	1	1	1	2	2	64	34	1	1	1	4	47	23	2
## 2	0	0	0	0	0	0	215	67	1	2	0	82	188	152	20
## 3	1	0	0	0	0	0	237	0	0	9	1	141	213	117	12
## 4	1	0	0	0	0	0	109	0	0	6	0	43	124	0	7
##	AFLY	BOOM	FRST	KEEB	NARW	1833	C835	SET2	TNMI	CHMP	AAXE	TNBS	OTH_597	CHOF	ZPHR
## 1	1	1	1	1	1	24	30	3	1	1	4	1		1	3
## 2	1	0	0	0	0	90	121	0	0	0	3	1		0	0
## 3	0	0	0	0	0	0	140	0	0	0	0	1		0	0
## 4	0	0	0	0	0	0	46	0	0	0	3	0		0	0
##	OTH_435	YOGI	DRMS	BLIK	BKBS	CCL6	HUCK	OTH_430	ZELD	F218	F214	MCM3	OTH_378		
## 1		1	1	13	1	1	17	1		1	2	25	11	2	3
## 2		0	0	9	2	0	70	1		1	21	252	124	35	0
## 3		0	0	3	0	0	0	4		0	23	78	0	0	0
## 4		0	0	0	0	0	0	1		0	8	0	0	0	0
##	C273	F165	F228	C254	F133	1312	FNMA	C793	ZRBC	TTA2	CDS2	F212	VANB	SLOT	UHAL
## 1	16	18	27	10	21	21	1	17	5	1	1	21	3	1	1
## 2	92	198	325	0	336	131	0	0	62	5	0	158	21	0	0
## 3	0	197	236	0	386	0	0	0	0	12	0	0	11	0	0
## 4	0	59	80	0	107	0	0	0	0	2	0	0	0	0	0
##	VANG	HAWC	F220	BTTC	1536	1551	CTS3	PSC4	NIPC	OTH_697	FB68	OTH_660	MUBT		
## 1	1	3	20	1	13	8	1	3	2		1	1		1	1
## 2	0	36	289	0	48	0	0	0	1		0	5		0	2
## 3	0	0	221	0	0	0	0	0	0		0	2		0	2
## 4	0	0	35	0	0	0	0	0	0		0	0		0	0
##	OTH_634	VIVA	WEBS	WILL	OTH_376	LHEL	VGRL	OTH_268	BTST	FB89	HMLT	OINK	OTH_602		
## 1		1	1	1	1		2	1	1		1	2	1	1	1
## 2		0	2	4	3		0	1	0		0	0	0	3	2
## 3		0	1	1	0		0	5	2		0	0	1	30	0
## 4		0	0	0	0		0	1	0		0	0	0	10	0
##	MJM2	SBAN	WVLT	FTLB	SBHN	YANK	HMMM	NIGT	F236	LONE	OTH_297	BEAT	MDEW	OTH_397	
## 1	1	1	1	1	1	1	1	1	1	2		1	1	1	1
## 2	3	1	0	0	2	32	5	0	159	4		0	0	0	0
## 3	11	0	0	0	1	49	0	17	187	2		0	0	0	0
## 4	6	0	0	0	0	15	0	7	73	2		0	0	0	0
##	OTH_577	THSM	ZODI	OTH_150	F258	F268	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1		1	1	1		1	1	1	0	0	0	0	0	0	0
## 2		0	2	3		0	147	144	4	5	1	1	2	3	5
## 3		0	2	0		0	235	270	0	8	2	0	2	0	1
## 4		0	0	0		0	118	112	0	0	0	0	0	0	1
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	42	4	49	54	1	4	4	5	2	11	1	4	125	1	1
## 3	0	4	68	120	5	8	10	0	0	15	0	4	249	0	0

## 4	0	3	53	43	0	3	0	0	0	1	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	169	1	294	5	14	208	1	1	1	3	290	16	24	26	2
## 3	0	0	178	0	0	0	0	1	4	2	237	0	0	26	0
## 4	0	0	79	0	0	0	0	0	1	1	119	0	0	18	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	2	22	1	1	2	24	6	214	91	49	20	20	16	11	7
## 3	0	29	0	0	1	50	0	226	120	0	68	63	0	0	50
## 4	0	0	0	0	1	11	0	55	92	0	15	3	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	11	1	7	1	6	1	4	6	1	3	1	1	1	2	2
## 3	63	1	3	0	10	1	0	0	0	2	0	0	0	0	1
## 4	41	0	0	0	2	0	0	0	0	0	0	0	0	0	1
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	3	1	3	1	2	4	1	46	2	2	2	1	1	1	1
## 3	0	1	3	0	2	0	2	17	2	0	1	0	0	0	0
## 4	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	1	1	1	1	1	2	3	1	2	1	2	1	1	1
## 3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	1	3	1	1	5	2	2	1	1	1	1	1	1	1
## 3	0	0	0	0	1	32	1	0	0	0	1	1	1	0	0
## 4	0	0	0	0	3	12	0	0	0	0	0	0	0	0	0
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## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	1	2	1	1	3	1	4	27	1	1	15	1	1	4
## 3	0	1	0	2	0	1	3	0	0	0	0	28	0	0	7
## 4	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	4	12	4	6	3	1	1	5	7	1	1	2	2	62	1
## 3	5	6	2	0	0	0	5	9	4	0	0	0	0	15	0
## 4	2	3	2	0	0	0	1	3	2	0	0	0	0	7	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	4	1	7	3	2	5	3	2	4	1	4	1	1	1	1
## 3	0	0	0	0	5	1	6	0	0	0	0	1	0	0	0
## 4	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0
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## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	11	27	23	2	1	2	2	1	1	1	1	1	1	1
## 3	0	30	33	3	0	2	0	0	1	0	0	0	0	0	0
## 4	0	13	11	0	0	0	0	0	0	0	0	0	0	0	0
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## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	2	29	3	2	12	1	1	2	2	4	2	2	2	1	1
## 4	0	51	8	0	29	0	2	0	6	0	0	1	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	1	2	1	2	1	1	1	1	4	6	1	2	1	1	6
## 4	0	0	0	0	5	1	0	0	1	0	0	0	0	1	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	1	1	1	1	1	1	1	1	1	3	1	1	2	2	2
## 4	1	0	2	0	0	0	0	0	0	1	0	0	0	2	2
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	1	4	3	1	1	1	1	1	2	2	2	2	2	1	3

##	0	2	1	1	1	1	0	0	0	0	0	0	1	0	0	2
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	1	1	1	1	1	1	3	1	2	1	2	2	1	1	3
##	4	1	3	1	0	0	0	0	0	4	1	0	0	1	0	2
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	1	1	1	6	2	4	2	2	2	2	1	8	1	1	1
##	4	0	0	0	0	0	17	2	0	0	0	0	82	0	2	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	1	1	1	4	6	13	1	1	10	1	1	4	1	2	2
##	4	1	0	0	34	0	55	10	0	90	0	6	8	0	5	1
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	2	3	2	3	1	1	12	1	1	1	1	1	1	3	1
##	4	3	6	3	21	1	0	111	0	0	9	0	0	0	56	15
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	4	2	1	1	1	16	1	3	1	1	1	1	2	1	1
##	4	2	18	3	7	1	89	0	11	6	1	1	0	13	5	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	1	2	1	1	2	1	2	1	0	0	0	0	0	0	0
##	4	0	44	4	0	30	0	0	8	1	1	1	1	1	1	1
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	4	1	1													

[illegible]

```
## 2    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 3    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 4    2    8   10   16   16    1    2    1    1    1    1    1    1    1    1
##      <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA>
## 1    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 2    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 3    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 4    5   19   25    5    1    1    1    5    1    1    1    1    3    1    1
##      <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA>
## 1    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 2    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 3    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
## 4    2    4    2    1    1    1    1   14    1    2    1    1    1    1    6
##      <NA> <NA> <NA>
## 1    0    0    0
## 2    0    0    0
## 3    0    0    0
## 4    1    1    1
```

```
# Transforming into binary matrices
```

```
p6y <- as.matrix(p6y); p6y[which(p6y==1)] = 1; p6y[which(p6y<1)] = 0
```

```
# ----- 3 sets of 7 year increments-----
```

```
# Make a list of 7 years per dataframe
```

```
sample_data$SevenYearIncrement <- cut(sample_data$Year, breaks = seq(min(sample_data$Year), max(sample_data$Year), length.out = 3))
```

```
list_sevenyears <- split(sample_data, sample_data$SevenYearIncrement)
```

```
# Apply the count_instances function to each two years
```

```
instances_per_sevenyear <- lapply(list_sevenyears, count_instances)
```

```
# Convert the list of counts to a data frame
```

```
p7y <- do.call(rbind, instances_per_sevenyear)
```

```
p7y
```

```
##      FB41 FB05 FB36 FB38 FB55 FB96 FB98 F108 F153 FB15 FB23 FB78 FB93 F155 FB01
## 1      67  254  269  241  287  104   38   87  123  187   68  178  207  344  296
## 2       0  199  167    0  256    8    0   92   84  229    0  171  207  292  101
## 3       0   13   79    0  218    0    0  115  144  186    0  192  120  217    0
##      FB43 FB92 F118 F122 FB29 <NA> FB54 FB71 FB90 F100 F119 FB14 FB27 <NA> FB57
## 1     134  273  370  165  131    0  442   87  411  203  326  365  225    0  103
## 2     169  273  300    0    0    0  314    0  411  127  146  155  189    0    0
## 3     102  245  155    0    0    0  231    0  257    0    0    0  169    0    0
##      FB66 FB76 FB94 F112 FB12 FB03 <NA> F106 FB44 FB62 F175 FB10 FB46 FB75 FB79
## 1     274  270  382   55   66  257    0  280  169  115  334  277  256  219  270
## 2     265  196  164    0    0  144    0  315   73    0  379  235  102  175  270
## 3      96    0    0    0    0    0    0    0  116    0  280  147    0    0  278
##      FB60 FB13 F138 FB63 FB07 FB11 F132 FB25 F102 F111 F130 F134 F136 F154 F160
## 1      32  235  233  210  362  438   17  271   28  216    8   44   38   95   47
## 2       0  179  256  159  315  388    6  176   34   59    2   26   16   44   24
## 3       0   43  266    7  236  244    1  203   52    0    0   19    0   20    0
##      F162 F200 FB20 FB65 HIQQ POOF FB28 <NA> FB09 FB33 ATNA CWM3 NKLN WTMA FB48
## 1      50    6  259  348   20   18  192    0  284  280    2   34    5   15  104
## 2      21    5  259  340   31    4  128    0  241  280    6   19   12    0   51
## 3      40    0  281  259   50    1   87    0   39  229    1   29   10    0   11
##      F105 1054 <NA> FB32 49C3 49LA <NA> DRAC <NA> F161 F164 <NA> KMSN MIDF 5NK2
```

## 1	14	2	0	231	9	56	0	1	0	1	38	0	3	5	4
## 2	2	0	0	60	0	16	0	0	2	0	122	0	0	8	0
## 3	0	0	0	0	0	0	0	0	0	0	186	0	0	11	0
##	<NA>	<NA>	MBAB	<NA>	SCTN	WTAB	<NA>	BTTV	<NA>	F147	F210	F237	<NA>	GRIM	FB84
## 1	0	0	3	0	2	2	0	21	0	11	6	53	0	1	193
## 2	0	1	1	0	6	2	0	0	0	0	28	159	0	0	62
## 3	0	0	1	0	5	1	0	0	0	0	1	140	0	2	0
##	CRAG	HVMS	LCKL	RUFF	FB59	FB83	FB02	C834	BBMB	LDSL	LSMS	MCMA	PN06	F276	FB24
## 1	12	4	10	10	203	163	201	108	10	10	1	62	1	76	105
## 2	1	16	0	7	105	78	207	162	5	7	0	14	1	143	0
## 3	0	35	3	0	0	0	187	186	0	0	0	0	0	249	0
##	FB35	F182	DRSN	<NA>	F128	F131	DIPT	SLMS	2SDN	BBL2	BBLN	BTLN	CHK2	ETMA	<NA>
## 1	47	204	98	0	206	333	19	2	2	2	4	5	2	9	0
## 2	46	161	62	0	277	329	0	0	0	0	7	4	0	7	0
## 3	80	168	53	0	248	311	0	0	0	0	6	0	0	0	0
##	HNBT	<NA>	JAGG	JIG3	KMBT	LOBE	MLTS	<NA>	<NA>	MTLR	<NA>	<NA>	SHOT	SURR	TFMS
## 1	3	0	3	8	1	3	5	0	0	1	0	0	6	3	2
## 2	0	0	0	1	0	0	1	0	1	0	0	1	5	0	0
## 3	4	0	0	4	0	0	3	0	0	1	0	0	0	0	0
##	TSMV	<NA>	<NA>	FB17	F110	F191	FB73	<NA>	<NA>	PSD2	PSDZ	<NA>	HSNS	<NA>	BIDF
## 1	18	0	0	60	90	49	27	0	0	2	1	0	7	0	1
## 2	14	0	0	47	123	0	12	0	0	0	0	0	4	0	1
## 3	37	0	0	0	113	0	0	0	0	1	0	0	21	0	3
##	<NA>	ETSC	FNOT	GFSO	<NA>	LGSC	MOL2	<NA>	MTMN	NLPS	PLUG	<NA>	TOTW	F183	THUB
## 1	0	1	1	1	0	1	1	0	15	1	6	0	1	99	4
## 2	10	0	0	0	0	0	0	0	0	3	8	1	2	75	1
## 3	8	0	0	2	0	0	0	0	0	3	26	2	0	0	0
##	F114	C791	FB26	FB34	F180	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	PKUP	<NA>	<NA>	SCOR
## 1	193	11	118	37	70	0	0	0	0	0	0	1	0	0	1
## 2	125	0	8	0	14	1	2	2	0	0	2	1	0	1	0
## 3	71	0	0	0	10	0	0	1	0	0	1	0	0	0	0
##	SPIK	FJSL	F117	<NA>	<NA>	ELFF	PN04	<NA>	TTM3	<NA>	LNST	<NA>	<NA>	<NA>	<NA>
## 1	5	1	262	0	0	24	7	0	4	0	2	0	0	0	0
## 2	0	2	76	0	0	10	0	0	8	0	3	0	0	0	0
## 3	0	1	0	0	0	0	0	0	4	0	3	0	0	0	0
##	FB39	CMRS	CONC	CONS	F163	F181	HAIR	HITS	MSQ2	RTMW	<NA>	SPGT	TABB	MDNK	KNOB
## 1	36	8	2	11	187	214	28	8	12	37	0	3	16	6	23
## 2	0	49	0	8	61	159	41	43	11	25	0	0	7	55	0
## 3	0	63	0	0	0	17	60	59	0	50	0	0	3	4	0
##	<NA>	<NA>	NIK2	<NA>	<NA>	BFWT	JAWS	<NA>	CHPC	<NA>	<NA>	ALHK	LHLV	<NA>	FB06
## 1	0	0	4	0	0	6	9	0	2	0	0	10	1	0	256
## 2	0	1	1	0	0	0	0	0	0	0	0	13	4	0	197
## 3	0	0	1	0	0	0	0	0	0	0	0	4	1	0	0
##	<NA>	<NA>	FB87	<NA>	CKB2	1832	SUMO	F157	<NA>	SOLB	TCTV	IKNO	F101	<NA>	<NA>
## 1	0	0	147	0	6	24	7	179	0	74	35	85	338	0	0
## 2	0	0	85	0	0	0	42	297	0	105	42	6	131	0	0
## 3	0	0	136	0	0	0	0	57	0	105	28	0	0	0	0
##	VRIP	HFLT	ZENN	<NA>	CLAW	AOTA	BKHO	<NA>	<NA>	<NA>	<NA>	F254	<NA>	MPTB	<NA>
## 1	2	11	13	0	1	3	9	0	0	0	0	7	0	23	0
## 2	3	29	0	0	0	4	5	0	0	0	0	53	0	143	0
## 3	3	0	0	0	0	0	19	0	0	0	0	114	0	119	0
##	SHTC	TRIF	<NA>	<NA>	PHNE	PN10	PNSN	FEAT	LUMP	BEGR	MOCH	F116	SLIF	OTH_604	THOR
## 1	43	4	0	0	11	9	4	5	6	116	16	17	1	1	8
## 2	64	4	0	0	0	0	0	9	0	187	0	0	0	0	0

## 3	0	4	0	0	0	0	0	3	0	356	0	0	0	0	0
##	F192	F194	MCM2	CATR	LFLA	OTH_199	TN3N	MTSS	SIMP	BRDO	RPPL	DTHB	GTFG	UPBK	MNIK
## 1	99	86	3	5	7		1	1	23	6	30	4	1	7	3 10
## 2	50	100	0	1	2		0	0	11	13	16	0	3	2	2 9
## 3	0	96	0	1	0		0	0	11	21	0	0	1	1	2 0
##	C652	THMN	RY34	TBTN	CCL4	F172	L106	C391	BTHV	NKNN	PNKD	C754	RTMC	WLDC	F149
## 1	217	4	40	4	14	7	3	35	3	6	4	13	4	6	99
## 2	0	0	154	0	0	0	6	0	0	0	2	0	0	1	184
## 3	0	0	122	0	0	0	0	0	0	0	1	0	0	8	97
##	C595	C091	LEMS	C991	FB99	LBMA	PNTN	HNSC	LIWB	LCDB	TTOO	TWHN	LWMN	LFLG	LDMA
## 1	81	1	1	29	76	48	1	2	1	4	6	2	5	4	18
## 2	0	0	0	88	63	0	0	0	0	0	0	3	6	2	29
## 3	0	0	0	80	0	0	0	0	0	0	0	5	0	0	29
##	LNPF	WHIS	F141	FANT	LLIN	FTMW	GAFF	HAGR	PRFR	F174	FB58	MIDM	M145	MANT	ONIP
## 1	15	2	70	1	1	1	1	1	24	101	122	2	27	13	2
## 2	25	1	208	0	0	2	0	0	16	79	85	1	35	7	0
## 3	62	0	90	0	0	0	1	0	17	0	0	3	54	15	0
##	STDQ	TLN2	PSDQ	HBMB	ALIN	HIPC	HIPM	BARE	BOXX	CURD	LET2	MOPS	MTWN	NEWT	SBTT
## 1	1	1	27	15	1	1	9	6	1	1	1	1	1	3	1
## 2	0	0	22	43	0	0	4	2	0	0	0	0	1	2	0
## 3	0	0	35	45	0	0	0	4	0	0	0	0	2	8	0
##	TPLS	PN05	BRCH	LYLU	TNSL	TRNO	SUFL	CATW	CLOX	MM49	MSUM	SCKB	THNM	LBSL	LBSC
## 1	3	7	1	1	1	1	8	3	2	3	9	1	4	13	2
## 2	3	7	0	1	1	0	4	10	0	0	3	0	6	0	0
## 3	0	3	0	0	0	1	4	8	0	0	0	1	5	0	0
##	LBTY	LTET	HMLS	MM62	GWEN	KNNN	OTH_596	OTH_610	Q5LA	SPTL	F219	1452	CPS2	BTHS	
## 1	3	2	3	1	7	8	1	1	14	10	30	8	5	3	
## 2	0	0	0	0	0	6	0	0	5	0	53	0	0	4	
## 3	0	0	0	0	0	5	0	0	12	0	78	0	0	3	
##	F107	ANGL	GRIN	HMLA	PTHD	RCLA	SR0M	SUMM	HNLN	KLNN	SKIT	GRC1	GRC2	BTLE	CWM4
## 1	3	2	1	2	2	1	1	1	2	1	4	1	1	4	3
## 2	0	0	1	0	0	0	0	1	2	3	0	0	0	0	0
## 3	0	4	3	5	3	0	6	0	1	0	0	0	0	0	0
##	MSUC	USLN	RUBB	1535	MLOB	MLOC	OTH_487	OTH_441	F178	BOXR	OTH_422	OTH_373	THOC		
## 1	9	1	1	47	5	2	1	1	230	33		2	1	5	
## 2	3	0	0	0	3	0	0	0	350	102		0	0	0	
## 3	0	0	0	0	0	0	0	0	241	165		0	0	0	
##	OTH_601	F109	F127	MDLB	LBT1	BZPN	F231	F120	F124	LOTB	PPSL	LBHL	OTH_456		
## 1	1	236	201	3	1	2	4	8	9	2	1	3	1		
## 2	0	356	246	1	0	0	19	13	0	17	0	5	0		
## 3	0	272	166	0	0	0	28	0	0	10	4	4	0		
##	OTH_707	BUZM	JDLA	MTHS	OTH_591	CLIF	MNCB	TOT2	DEDO	F144	MDPK	NIPP	IKNC	WAVE	
## 1	1	1	1	1	1	5	3	3	4	80	13	1	1	2	
## 2	0	0	4	0	0	4	0	0	0	0	0	0	2	0 3	
## 3	0	0	0	0	0	2	0	0	0	0	0	0	0	0 1	
##	EFHT	MRMS	CSTK	LSPL	SBPE	C717	LAT2	TNFG	DMDI	F188	C073	TEEN	F159	WAND	F198
## 1	2	3	1	4	5	16	3	3	4	177	31	21	136	14	150
## 2	0	2	0	2	5	0	1	0	0	283	0	0	272	85	334
## 3	0	0	0	0	1	0	0	0	0	247	0	0	277	0	216
##	PSB2	PSBZ	PHIN	F148	C574	F184	JOSE	F202	INHf	KATT	ROOS	RP61	C755	F113	F190
## 1	1	1	16	238	23	67	80	6	1	3	4	2	1	216	137
## 2	0	0	0	313	0	19	73	2	0	2	3	2	0	376	154
## 3	0	0	0	276	0	0	0	0	0	0	0	4	0	256	67
##	XYLO	C295	MSLB	TDTL	BTOK	LPSK	F152	GALO	WORM	F186	FLTP	FB70	BTMV	MTMS	MOFG

##	1	2	13	40	11	1	5	95	6	11	143	1	1	1	1	1
##	2	0	0	0	24	0	0	0	5	0	21	0	0	0	0	0
##	3	1	0	0	40	0	0	0	3	0	0	0	0	0	0	1
##	F146	CTS2	MSQL	PSC3	BTCH	DIGT	PORT	LTS2	LTSM	ALKC	CHMA	PN03	BRD2	C871	PROF	
##	1	268	2	1	4	7	7	3	1	1	1	1	1	27	97	1
##	2	397	0	0	8	0	5	1	0	0	0	2	0	0	15	3
##	3	290	0	0	21	0	0	0	0	0	0	0	0	0	0	2
##	STMN	VTHN	SLLP	INDT	BTTN	SOLS	LACH	OTH_164	OTH_208	RNMA	F170	FNGD	HTHR	PRGO		
##	1	1	1	2	1	1	1	4	1	1	3	2	1	1	1	
##	2	1	1	0	0	0	3	2	0	0	5	0	0	0	0	
##	3	0	0	0	0	0	5	0	0	0	0	1	0	0	0	
##	WAAA	WOTN	CRUM	MUCH	NIPN	BBUK	LBLT	LEMO	LSPO	PUMP	SGLA	TSMN	TULP	BOZO	FLLN	
##	1	1	9	2	4	6	2	2	1	13	31	8	1	1	1	
##	2	0	3	1	8	10	1	0	0	0	0	4	1	0	0	
##	3	0	0	8	22	2	0	0	0	0	0	7	0	0	0	
##	MOML	HSN2	SMUS	BSLV	UPBT	HILB	MORN	C272	F142	JOSC	HANG	F126	STIP	WHIT	LBLK	
##	1	1	1	2	1	4	1	5	43	90	57	8	5	1	2	
##	2	0	0	0	0	0	3	5	0	144	92	10	46	0	2	
##	3	0	0	1	0	0	3	11	0	237	73	0	52	0	0	
##	IKN2	PRFC	APEM	HMTN	SBDO	RTM2	PLG2	MJMA	MJMC	OTH_228	RNMK	DAND	LNPC	TWIG	XNDU	
##	1	67	4	1	3	57	8	1	8	2	1	1	6	12	1	
##	2	142	0	1	1	89	52	0	7	0	0	0	0	31	0	
##	3	120	0	1	2	0	34	0	0	0	0	12	0	57	0	
##	PECS	ULYS	ZOEY	IVTA	NACK	POET	R27L	TAL2	YAH0	HBUT	HOKA	OTH_692	LIZD	SCOB	SKIL	
##	1	8	6	3	2	2	3	3	1	2	7	1	1	35	1	
##	2	2	39	1	0	7	3	9	5	0	1	3	0	22	0	
##	3	0	53	5	0	3	5	10	4	2	0	7	0	21	0	
##	PRTF	TUNL	GIDN	OCTV	BUMI	ICEB	KNIK	KOKO	ZRBA	ALH2	MNC2	CURL	F193	FHIS	UDOG	
##	1	2	1	2	3	1	1	11	2	57	1	1	1	1	1	
##	2	3	2	3	2	0	0	0	3	74	0	0	0	32	1	
##	3	0	2	0	6	0	0	0	11	0	0	0	0	71	0	
##	MYST	TKID	CAES	BIGB	MUCC	OTH_419	PIHI	SCSM	ANOK	TPLO	HSLR	QCHE	ZVGO	F115		
##	1	2	2	1	1	1	1	2	5	1	1	2	1	5	27	
##	2	4	16	4	0	0	0	1	25	1	0	0	0	0	0	
##	3	3	18	0	0	0	0	12	71	0	0	0	0	0	0	
##	OTH_606	MVON	OTH_402	SNSC	F166	F196	F176	C931	WH00	WINN	LDNK	OTH_485	SEWF			
##	1	1	7	2	1	17	125	38	10	25	4	1	1	1		
##	2	0	3	0	0	0	327	129	0	42	4	0	0	0	5	
##	3	0	0	0	0	0	285	118	0	10	2	0	0	0	0	
##	UWHO	BALE	HLBP	TDDP	2102	C296	F125	F216	ERKA	MFLC	MFLG	F248	F123	C596	BIKO	
##	1	1	1	1	1	2	2	116	90	1	1	1	18	89	56	
##	2	0	0	0	0	0	0	246	11	1	5	0	136	240	199	
##	3	2	0	0	0	0	0	263	0	0	12	1	116	243	37	
##	AFLY	BOOM	FRST	KEEB	NARW	1833	C835	SET2	TNMI	CHMP	AAXE	TNBS	OTH_597	CHOF	ZPHR	
##	1	1	1	1	1	39	69	3	1	1	4	1	1	2	3	
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##	3	0	0	0	0	0	0	134	0	0	0	3	1	0	0	
##	OTH_435	YOGI	DRMS	BLIK	BKBS	CCL6	HUCK	OTH_430	ZELD	F218	F214	MCM3	OTH_378			
##	1	1	1	21	1	1	40	1	2	11	106	65	22	3		
##	2	0	0	2	2	0	47	5	0	29	249	70	15	0		
##	3	0	0	2	0	0	0	1	0	14	0	0	0	0		
##	C273	F165	F228	C254	F133	1312	FNMA	C793	ZRBC	TTA2	CDS2	F212	VANB	SLOT	UHAL	
##	1	59	79	100	10	92	70	1	17	23	1	1	85	14	1	
##	2	49	222	372	0	437	82	0	0	44	7	0	94	13	0	


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## 3      0 171 196      0 321      0 0 0 0 12 0 0 8 0 0
## VANG HAWC F220 BTTC 1536 1551 CTS3 PSC4 NIPC OTH_697 FB68 OTH_660 MUBT
## 1      1 14 92      1 35      8 1 3 3      1 1      1 1
## 2      0 25 343      0 26      0 0 0 0      0 6      0 3
## 3      0 0 130      0 0      0 0 0 0      0 1      0 1
## OTH_634 VIVA WEBS WILL OTH_376 LHEL VGRL OTH_268 BTST FB89 HMLT OINK OTH_602
## 1      1 1 2 2      2 2 1      1 2 1 2 2      1
## 2      0 3 4 2      0 0 0      0 0 0 12 1      0
## 3      0 0 0 0      0 6 2      0 0 1 30 0      0
## MJM2 SBAN WVL T FTLB SBHN YANK HMMM NIGT F236 LONE OTH_297 BEAT MDEW OTH_397
## 1      2 1 1 1 1 5 1 1 30 3      1 1 1      1
## 2      7 1 0 0 2 48 5 3 203 3      0 0 0      0
## 3     12 0 0 0 1 44 0 21 187 4      0 0 0      0
## OTH_577 THSM ZODI OTH_150 F258 F268 PNBS SCBT BGSQ OTH_616 RUF2 SPEC OPTP
## 1      1 1 1      1 21 26      1 1 1      1 2 1 2
## 2      0 4 3      0 204 226      3 4 1      0 1 2 1
## 3      0 0 0      0 276 275      0 8 1      0 1 0 0
## TROY WAN1 JBAK F167 F171 TMKB NKAL SBUK TBEL OTH_503 SNOT WHAT DUDE F203 C335
## 1      3 8 3 14 10      1 2 2 1      2 1 1 1 12 1
## 2      2 34 3 45 87      2 4 7 4      0 13 0 7 233 0
## 3      1 0 5 111 120      3 9 5 0      0 13 0 0 129 0
## CHTO C932 BTCP F137 MNIC ZEL1 F139 FELX IKBD UNBT TAZD F135 VRLA LBMN BOOT
## 1      1 60 1 63      1 5 45 1 1 1 1 48 4 10 14
## 2      0 109 0 297 4 9 163 0 1 0 3 334 12 14 23
## 3      0 0 0 191 0 0 0 0 0 5 2 264 0 0 33
## LOCM PEEL SLLA SXNK WHPH MRAZ HLPC VOLD F151 F215 CSH3 PNBT VSTH WALT WHYY
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## 2      1 1 11 0 0 2 48 4 293 99 36 54 51 1 0
## 3      0 0 28 0 0 1 30 0 171 173 0 35 21 0 0
## B226 FRNG BUZL FNIS HIBU MORB SBPN PN01 SBOK OTH_506 MHBT OTH_609 OTH_715
## 1      5 3 1 2 1 3 1 2 3      1 1      1 1
## 2     32 35 1 6 0 3 1 2 3      0 4      0 0
## 3     20 77 0 2 0 12 0 0 0      0 0      0 0
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## 3	23	0	1	13	3	4	1	1	7	2	1	9	4	31	13
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	30	16	5	166	1	2	2	6	2	3	2	44	1	1	2
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	2	2	1	1	2	1	1	2	2	17	28	62	226	1	2
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	1	9	1	9	5	38	1	5	27	10	207	189	8	13	6
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	1	10	3	4	2	5	11	25	14	4	5	2	2	7	1
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	2	1	1	5	9	1	14	1	1	1	2	17	6	4	1
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	7	3	12	1	3	2	1	164	8	8	8	2	3	23	1
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	12	4	7	5	149	1	8	3	4	24	28	82	42	1	4
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	6	1	154	3	1	3	1	2	2	2	7	112	1	2	3
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	7	1	3	3	1	2	1	2	1	1	1	1	4	1	8
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	1	1	2	3	3	2	1	1	1	1	1	9	157	51	1
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

[illegible]

##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	1	1	112	2	41	2	2	2	1	81	3	96	13	1	7
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	3	1	1	1	14	3	4	17	1	1	1	1	1	1	1
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	3	2	1	94	5	12	2	1	1	1	1	1	1	1	11
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	1	1	2	2	3	1	1	1	3	1	2	1	1	1	2
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	1	7	5	10	11	1	1	2	2	2	3	3	2	40	86
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	7	8	1	1	3	1	1	43	6	4	3	33	5	42	3
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	2	2	11	1	16	3	13	3	13	3	1	11	3	1	2
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	50	28	61	8	1	9	6	6	1	64	11	1	1	24	17
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	3	2	19	1	1	1	1	1	28	1	2					

```
## 3      4      1      2      2      8      10      16      16      1      2      1      1      1      1      1
##      <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA>
## 1      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 2      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 3      1      1      1      5     19     25      5      1      1      1      5      1      1      1      1
##      <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA>
## 1      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 2      0      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 3      3      1      1      2      4      2      1      1      1      1     14      1      2      1      1
##      <NA> <NA> <NA> <NA> <NA> <NA>
## 1      0      0      0      0      0      0
## 2      0      0      0      0      0      0
## 3      1      1      6      1      1      1
```

```
# Transforming into binary matrices
```

```
p7y <- as.matrix(p7y); p7y[which(p7y>=1)] = 1; p7y[which(p7y<1)] = 0
```

```
# ----- 3 sets of 8 year increments-----
```

```
# Make a list of 8 years per dataframe
```

```
sample_data$EightYearIncrement <- cut(sample_data$Year, breaks = seq(min(sample_data$Year), max(sample_data$Year), length.out = 8))
```

```
list_eightyears <- split(sample_data, sample_data$EightYearIncrement)
```

```
# Apply the count_instances function to each two years
```

```
instances_per_eightyear <- lapply(list_eightyears, count_instances)
```

```
# Convert the list of counts to a data frame
```

```
p8y <- do.call(rbind, instances_per_eightyear)
```

```
p8y
```

```
##      FB41 FB05 FB36 FB38 FB55 FB96 FB98 F108 F153 FB15 FB23 FB78 FB93 F155 FB01
## 1      67    307    298    241    358    112     38    103    132    224     68    222    247    401    360
## 2       0     159    192       0    264       0       0    109    120    273       0    195    218    296     37
## 3       0       0     25       0    139       0       0     82     99    105       0    124     69    156       0
##      FB43 FB92 F118 F122 FB29 <NA> FB54 FB71 FB90 F100 F119 FB14 FB27 <NA> FB57
## 1     167    333    436    165    131       0    514     87    483    237    379    440    262       0    103
## 2     197    308    330       0       0       0    308       0    458     93     93     80    208       0       0
## 3      41    150     59       0       0       0    165       0    138       0       0       0    113       0       0
##      FB66 FB76 FB94 F112 FB12 FB03 <NA> F106 FB44 FB62 F175 FB10 FB46 FB75 FB79
## 1     344    335    466     55     66    339       0    355    182    115    417    338    315    264    316
## 2     232    131     80       0       0     62       0    240     95       0    381    228     43    130    334
## 3      59       0       0       0       0       0       0     81       0    195     93       0       0    168
##      FB60 FB13 F138 FB63 FB07 FB11 F132 FB25 F102 F111 F130 F134 F136 F154 F160
## 1      32    288    277    244    430    517     20    290     34    256     10     52     45     99     56
## 2       0    169    297    132    321    402       4    222     47     19       0     34       9     46     15
## 3       0       0    181       0    162    151       0    138     33       0       0       3       0     14       0
##      F162 F200 FB20 FB65 HIQQ POOF FB28 <NA> FB09 FB33 ATNA CWM3 NKLN WTMA FB48
## 1      58       7    300    411     28     20    234       0    325    338       2     35       5     15    113
## 2      23       4    304    394     41       3    118       0    239    292       6     26     16       0     53
## 3      30       0    195    142     32       0     55       0       0    159       1     21       6       0       0
##      F105 1054 <NA> FB32 49C3 49LA <NA> DRAC <NA> F161 F164 <NA> KMSN MIDF 5NK2
## 1      15       2       0    271       9     60       0       1       0       1     54       0       3       5       4
## 2       1       0       0     20       0     12       0       0       2       0    156       0       0     12       0
## 3       0       0       0       0       0       0       0       0       0       0    136       0       0       7       0
##      <NA> <NA> MBAB <NA> SCTN WTAB <NA> BTTV <NA> F147 F210 F237 <NA> GRIM FB84
## 1       0       0       3       0       2       2       0     21       0     11     17     70       0       1    231
```

##	2	0	1	2	0	10	3	0	0	0	0	18	200	0	0	24
##	3	0	0	0	0	1	0	0	0	0	0	0	82	0	2	0
##		CRAG	HVMS	LCKL	RUFF	FB59	FB83	FB02	C834	BBMB	LDSL	LSMS	MCMA	PN06	F276	FB24
##	1	13	6	10	11	264	189	224	148	11	11	1	76	1	107	105
##	2	0	27	2	6	44	52	258	186	4	6	0	0	1	189	0
##	3	0	22	1	0	0	0	113	122	0	0	0	0	0	172	0
##		FB35	F182	DRSN	<NA>	F128	F131	DIPT	SLMS	2SDN	BBL2	BBLN	BTLN	CHK2	ETMA	<NA>
##	1	53	242	102	0	271	409	19	2	2	2	5	6	2	10	0
##	2	65	182	89	0	315	359	0	0	0	0	10	3	0	6	0
##	3	55	109	22	0	145	205	0	0	0	0	2	0	0	0	0
##		HNB	T	<NA>	JAGG	JIG3	KMBT	LOBE	MLTS	<NA>	<NA>	MTLR	<NA>	<NA>	SHOT	SURR
##	1	3	0	3	8	1	3	5	0	0	1	0	0	8	3	2
##	2	3	0	0	4	0	0	3	0	1	1	0	1	3	0	0
##	3	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0
##		TSMV	<NA>	<NA>	FB17	F110	F191	FB73	<NA>	<NA>	PSD2	PSDZ	<NA>	HSNS	<NA>	BIDF
##	1	20	0	0	67	110	49	34	0	0	2	1	0	7	0	1
##	2	31	0	0	40	144	0	5	0	0	0	0	0	10	0	1
##	3	18	0	0	0	72	0	0	0	0	1	0	0	15	0	3
##		<NA>	ETSC	FNOT	GFS	<NA>	LGSC	MOL2	<NA>	MTMN	NLPS	PLUG	<NA>	TOTW	F183	THUB
##	1	0	1	1	1	0	1	1	0	15	1	6	0	1	124	5
##	2	11	0	0	0	0	0	0	0	0	4	27	1	2	50	0
##	3	7	0	0	2	0	0	0	0	0	2	7	2	0	0	0
##		F114	C791	FB26	FB34	F180	<NA>	BKTL	FLCR	<NA>	<NA>	MSR2	PKUP	<NA>	WHMR	SCOR
##	1	228	11	126	37	73	0	1	1	0	0	1	1	0	1	1
##	2	122	0	0	0	16	1	1	2	0	0	2	1	0	0	0
##	3	39	0	0	0	5	0	0	0	0	0	0	0	0	0	0
##		SPIK	FJSL	F117	<NA>	<NA>	ELFF	PN04	<NA>	TTM3	<NA>	LNST	<NA>	<NA>	<NA>	<NA>
##	1	5	1	323	0	0	28	7	0	5	0	2	0	0	0	0
##	2	0	3	15	0	0	6	0	0	10	0	4	0	0	0	0
##	3	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0
##		FB39	CMRS	CONC	CONS	F163	F181	HAIR	HITS	MSQ2	RTMW	<NA>	SPGT	TABB	MDNK	KNOB
##	1	36	12	2	12	230	225	30	10	14	40	0	3	17	6	23
##	2	0	60	0	7	18	165	58	56	9	40	0	0	9	59	0
##	3	0	48	0	0	0	0	41	44	0	32	0	0	0	0	0
##		<NA>	<NA>	NIK2	<NA>	<NA>	BFWT	JAWS	<NA>	CHPC	<NA>	<NA>	ALHK	LHLV	<NA>	FB06
##	1	0	0	4	0	0	6	9	0	2	0	0	11	2	0	313
##	2	0	1	2	0	0	0	0	0	0	0	0	16	4	0	140
##	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##		<NA>	<NA>	FB87	<NA>	CKB2	1832	SUMO	F157	<NA>	SOLB	TCTV	IKNO	F101	<NA>	<NA>
##	1	0	0	159	0	6	24	9	239	0	91	36	91	395	0	0
##	2	0	0	114	0	0	0	40	288	0	124	48	0	74	0	0
##	3	0	0	95	0	0	0	0	6	0	69	21	0	0	0	0
##		VRIP	HFLT	ZENN	<NA>	CLAW	AOTA	BKHO	<NA>	<NA>	<NA>	<NA>	F254	<NA>	MPTB	<NA>
##	1	2	12	13	0	1	4	9	0	0	0	0	8	0	58	0
##	2	4	28	0	0	0	3	10	0	0	0	0	86	0	153	0
##	3	2	0	0	0	0	0	14	0	0	0	0	80	0	74	0
##		SHTC	TRIF	<NA>	<NA>	PHNE	PN10	PNSN	FEAT	LUMP	BEGR	MOCH	F116	SLIF	OTH_604	THOR
##	1	82	5	0	0	11	9	4	6	6	180	16	17	1	1	8
##	2	25	3	0	0	0	0	0	10	0	194	0	0	0	0	0
##	3	0	4	0	0	0	0	0	1	0	285	0	0	0	0	0
##		F192	F194	MCM2	CATR	LFLA	OTH_199	TN3N	MTSS	SIMP	BRDO	RPPL	DTHB	GTFG	UPBK	MNIK
##	1	140	128	3	6	9		1	1	24	6	41	4	1	8	12
##	2	9	90	0	1	0		0	0	11	25	5	0	3	2	7
##	3	0	64	0	0	0		0	0	10	9	0	0	1	0	0

##	C652	THMN	RY34	TBTN	CCL4	F172	L106	C391	BTHV	NKNN	PNKD	C754	RTMC	WLDC	F149
## 1	217	4	82	4	14	7	3	35	3	6	5	13	4	6	128
## 2	0	0	163	0	0	0	6	0	0	0	2	0	0	3	201
## 3	0	0	71	0	0	0	0	0	0	0	0	0	0	6	51
##	C595	C091	LEMS	C991	FB99	LBMA	PNTN	HNSC	LIWB	LCDB	TT00	TWHN	LWMN	LFLG	LDMA
## 1	81	1	1	34	127	48	1	2	1	4	6	2	8	4	20
## 2	0	0	0	116	12	0	0	0	0	0	0	7	3	2	44
## 3	0	0	0	47	0	0	0	0	0	0	0	1	0	0	12
##	LNPF	WHIS	F141	FANT	LLIN	FTMW	GAFF	HAGR	PRFR	F174	FB58	MIDM	M145	MANT	ONIP
## 1	16	2	108	1	1	2	1	1	24	139	168	2	28	13	2
## 2	48	1	238	0	0	1	0	0	26	41	39	1	65	14	0
## 3	38	0	22	0	0	0	1	0	7	0	0	3	23	8	0
##	STD0	TLN2	PSDQ	HBMB	ALIN	HIPC	HIPM	BARE	BOXX	CURD	LET2	MOPS	MTWN	NEWT	SBTT
## 1	1	1	29	21	1	1	9	7	1	1	1	1	1	4	1
## 2	0	0	36	58	0	0	4	2	0	0	0	0	2	4	0
## 3	0	0	19	24	0	0	0	3	0	0	0	0	1	5	0
##	TPLS	PN05	BRCH	LYLU	TNSL	TRNO	SUFL	CATW	CLOX	MM49	MSUM	SCKB	THNM	LBSL	LBSC
## 1	4	8	1	2	2	1	8	3	2	3	9	1	4	13	2
## 2	2	9	0	0	0	0	5	14	0	0	3	0	9	0	0
## 3	0	0	0	0	0	1	3	4	0	0	0	1	2	0	0
##	LBTY	LTET	HMLS	MM62	GWEN	KNNN	OTH_596	OTH_610	Q5LA	SPTL	F219	1452	CPS2	BTHS	
## 1	3	2	3	1	7	9	1	1	14	10	34	8	5	4	
## 2	0	0	0	0	0	9	0	0	7	0	76	0	0	3	
## 3	0	0	0	0	0	1	0	0	10	0	51	0	0	3	
##	F107	ANGL	GRIN	HMLA	PTHD	RCLA	SR0M	SUMM	HNLN	KLNN	SKIT	GRC1	GRC2	BTLE	CWM4
## 1	3	2	1	2	2	1	1	1	4	3	4	1	1	4	3
## 2	0	0	1	1	0	0	2	1	0	1	0	0	0	0	0
## 3	0	4	3	4	3	0	4	0	1	0	0	0	0	0	0
##	MSUC	USLN	RUBB	1535	MLOB	MLOC	OTH_487	OTH_441	F178	BOXR	OTH_422	OTH_373	THOC		
## 1	10	1	1	47	6	2	1	1	302	48		2	1	5	
## 2	2	0	0	0	2	0	0	0	360	150		0	0	0	
## 3	0	0	0	0	0	0	0	0	159	102		0	0	0	
##	OTH_601	F109	F127	MDLB	LBT1	BZPN	F231	F120	F124	LOTB	PPSL	LBHL	OTH_456		
## 1	1	307	258	3	1	2	4	10	9	8	1	4	1		
## 2	0	383	284	1	0	0	42	11	0	13	0	6	0		
## 3	0	174	71	0	0	0	5	0	0	8	4	2	0		
##	OTH_707	BUZM	JDLA	MTHS	OTH_591	CLIF	MNCB	TOT2	DEDO	F144	MDPK	NIPP	IKNC	WAVE	
## 1	1	1	2	1	1	5	3	3	4	80	13	1	1	2	
## 2	0	0	3	0	0	6	0	0	0	0	0	2	0	3	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
##	EFHT	MRMS	CSTK	LSPL	SBPE	C717	LAT2	TNFG	DMDI	F188	C073	TEEN	F159	WAND	F198
## 1	2	3	1	6	8	16	3	3	4	212	31	21	136	52	238
## 2	0	2	0	0	3	0	1	0	0	339	0	0	364	47	348
## 3	0	0	0	0	0	0	0	0	0	156	0	0	185	0	114
##	PSB2	PSBZ	PHIN	F148	C574	F184	JOSE	F202	INHF	KATT	ROOS	RP61	C755	F113	F190
## 1	1	1	16	291	23	86	102	6	1	3	7	2	1	282	168
## 2	0	0	0	370	0	0	51	2	0	2	0	2	0	421	158
## 3	0	0	0	166	0	0	0	0	0	0	0	4	0	145	32
##	XYLO	C295	MSLB	TDTL	BTOK	LPSK	F152	GALO	WORM	F186	FLTP	FB70	BTMV	MTMS	MOFG
## 1	2	13	40	16	1	5	95	6	11	164	1	1	1	1	1
## 2	1	0	0	29	0	0	0	6	0	0	0	0	0	0	0
## 3	0	0	0	30	0	0	0	2	0	0	0	0	0	0	1
##	F146	CTS2	MSQL	PSC3	BTCH	DIGT	PORT	LTS2	LTSM	ALKC	CHMA	PN03	BRD2	C871	PROF
## 1	365	2	1	5	7	8	3	1	1	1	1	1	27	103	1

## 2	416	0	0	14	0	4	1	0	0	0	2	0	0	9	3
## 3	174	0	0	14	0	0	0	0	0	0	0	0	0	0	2
##	STMN	VTHN	SLLP	INDT	BTTN	SOLS	LACH	OTH_164	OTH_208	RNMA	F170	FNGD	HTHR	PRGO	
## 1	1	1	2	1	1	1	6	1	1	3	2	1	1	1	
## 2	1	1	0	0	0	8	0	0	0	5	1	0	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	WAAA	WOTN	CRUM	MUCH	NIPN	BBUK	LBLT	LEMO	LSPO	PUMP	SGLA	TSMN	TULP	BOZO	FLLN
## 1	1	12	3	4	6	2	2	1	13	31	9	1	1	1	1
## 2	0	0	1	10	12	1	0	0	0	0	3	1	0	0	0
## 3	0	0	7	20	0	0	0	0	0	0	7	0	0	0	0
##	MOML	HSN2	SMUS	BSLV	UPBT	HILB	MORN	C272	F142	JOSC	HANG	F126	STIP	WHIT	LBLK
## 1	1	1	2	1	4	3	6	43	120	80	9	8	1	4	6
## 2	0	0	0	0	0	1	8	0	186	93	9	60	0	0	0
## 3	0	0	1	0	0	3	7	0	165	49	0	35	0	0	0
##	IKN2	PRFC	APEM	HMTN	SBDO	RTM2	PLG2	MJMA	MJMC	OTH_228	RNMK	DAND	LNPC	TWIG	XNDU
## 1	92	4	2	4	82	10	1	10	2	1	1	6	13	1	1
## 2	156	0	1	1	64	68	0	5	0	0	2	0	57	0	0
## 3	81	0	0	1	0	16	0	0	0	0	10	0	30	0	0
##	PECS	ULYS	ZOEY	IVTA	NACK	POET	R27L	TAL2	YAH0	HBUT	HOKA	OTH_692	LIZD	SCOB	SKIL
## 1	10	7	3	2	6	5	7	1	2	8	1	1	35	1	6
## 2	0	58	1	0	5	3	8	7	1	0	6	0	26	0	2
## 3	0	33	5	0	1	3	7	2	1	0	4	0	17	0	2
##	PRTF	TUNL	GIDN	OCTV	BUMI	ICEB	KNIK	KOKO	ZRBA	ALH2	MNC2	CURL	F193	FHIS	UDOG
## 1	5	3	5	4	1	1	11	3	80	1	1	1	1	1	1
## 2	0	2	0	3	0	0	0	7	51	0	0	0	51	1	0
## 3	0	0	0	4	0	0	0	6	0	0	0	0	52	0	0
##	MYST	TKID	CAES	BIGB	MUCC	OTH_419	PIHI	SCSM	ANOK	TPLO	HSLR	QCHE	ZVGO	F115	
## 1	2	3	1	1	1	1	2	5	1	1	2	1	5	27	
## 2	4	21	4	0	0	0	0	2	40	1	0	0	0	0	
## 3	3	12	0	0	0	0	0	11	56	0	0	0	0	0	
##	OTH_606	MVON	OTH_402	SNSC	F166	F196	F176	C931	WHOO	WINN	LDNK	OTH_485	SEWF		
## 1	1	8	2	1	17	183	69	10	31	8	1	1	3		
## 2	0	2	0	0	0	376	138	0	42	2	0	0	3		
## 3	0	0	0	0	0	178	78	0	4	0	0	0	0		
##	UWHO	BALE	HLBP	TDDP	2102	C296	F125	F216	ERKA	MFLC	MFLG	F248	F123	C596	BIKO
## 1	1	1	1	1	2	2	169	101	1	1	1	27	125	108	21
## 2	1	0	0	0	0	0	289	0	1	6	0	165	280	181	10
## 3	1	0	0	0	0	0	167	0	0	11	1	78	167	3	10
##	AFLY	BOOM	FRST	KEEB	NARW	1833	C835	SET2	TNMI	CHMP	AAXE	TNBS	OTH_597	CHOF	ZPHR
## 1	1	1	1	1	1	56	93	3	1	1	4	2	1	2	3
## 2	1	0	0	0	0	58	161	0	0	0	3	1	0	0	0
## 3	0	0	0	0	0	0	83	0	0	0	3	0	0	0	0
##	OTH_435	YOGI	DRMS	BLIK	BKBS	CCL6	HUCK	OTH_430	ZELD	F218	F214	MCM3	OTH_378		
## 1	1	1	21	1	1	72	2	2	20	175	105	36	3		
## 2	0	0	3	2	0	15	4	0	22	180	30	1	0		
## 3	0	0	1	0	0	0	1	0	12	0	0	0	0		
##	C273	F165	F228	C254	F133	1312	FNMA	C793	ZRBC	TTA2	CDS2	F212	VANB	SLOT	UHAL
## 1	93	121	167	10	167	140	1	17	38	1	1	167	18	1	1
## 2	15	267	387	0	510	12	0	0	29	11	0	12	13	0	0
## 3	0	84	114	0	173	0	0	0	0	8	0	0	4	0	0
##	VANG	HAWC	F220	BTTT	1536	1551	CTS3	PSC4	NIPC	OTH_697	FB68	OTH_660	MUBT		
## 1	1	27	158	1	44	8	1	3	3	1	4	1	3		
## 2	0	12	352	0	17	0	0	0	0	0	4	0	2		
## 3	0	0	55	0	0	0	0	0	0	0	0	0	0		

```

##   OTH_634 VIVA WEBS WILL OTH_376 LHEL VGRL OTH_268 BTST FB89 HMLT OINK OTH_602
## 1      1      3      5      4      2      2      1      1      2      1      2      2      1
## 2      0      1      1      0      0      1      2      0      0      0      28     1      0
## 3      0      0      0      0      0      5      0      0      0      1      14     0      0
##   MJM2 SBAN WVL T FTLB SBHN YANK HMMM NIGT F236 LONE OTH_297 BEAT MDEW OTH_397
## 1      4      1      1      1      1      8      1      1      57     4      1      1      1      1
## 2      8      1      0      0      2      63     5      9      244    3      0      0      0      0
## 3      9      0      0      0      1      26     0      15     119    3      0      0      0      0
##   OTH_577 THSM ZODI OTH_150 F258 F268 PNBS SCBT BGSQ OTH_616 RUF2 SPEC OPTP
## 1      1      2      4      1      51     53     2      1      1      1      2      3      2
## 2      0      3      0      0      260    299     2      9      2      0      2      0      1
## 3      0      0      0      0      190    175     0      3      0      0      0      0      0
##   TROY WAN1 JBAK F167 F171 TMKB NKAL SBUK TBEL OTH_503 SNOT WHAT DUDE F203 C335
## 1      3      36     3      16     11     1      2      3      2      2      4      1      1      41     1
## 2      2      6      4      82    139     5      8      10     3      0      17     0      7     310     0
## 3      1      0      4      72     67     0      5      1      0      0      6      0      0      23     0
##   CHTO C932 BTCP F137 MNIC ZEL1 F139 FELX IKBD UNBT TAZD F135 VRLA LBMN BOOT
## 1      1      98     1     116     2      13    104     1      1      1      1     118     5     15     17
## 2      0      71     0     321     3      1    104     0      1      3      3     355    11     9      35
## 3      0      0      0     114     0      0      0      0      0      2      2     173     0      0     18
##   LOCM PEEL SLLA SXNK WHPH MRAZ HLPC VOLD F151 F215 CSH3 PNBT VSTH WALT WHYY
## 1      1      1      20     1      1      2      7      5      64     81     37     15     18     16     11
## 2      1      1      31     0      0      1      63     1     353    104     12     73     65     0      0
## 3      0      0      0      0      0      1      15     0      78    118     0      15      3      0      0
##   B226 FRNG BUZL FNIS HIBU MORB SBPN PNO1 SBOK OTH_506 MHBT OTH_609 OTH_715
## 1      7      6      1      2      1      4      1      4      5      1      1      1      1
## 2     48     58     1      8      0      9      1      0      1      0      4      0      0
## 3      2     51     0      0      0      5      0      0      0      0      0      0      0
##   OTH_231 BTM2 HVAS MARX NIKE TAL3 ZACK P3SP LOT1 SPAC PITA BLUG MYLV DALS FOFN
## 1      1      1      2      1      1      1      1      2      3      1     26     2      2      2      1
## 2      0      1      1      2      1      5      0      2      1      2     30     1      0      1      0
## 3      0      0      1      0      0      0      0      1      0      1      7      1      0      0      0
##   NOLA R61M TPBT TTM2 BABX BTAS SNDL SPLT TWSO YODA ZULU SOL2 WOOF ETFR GRSH
## 1      1      1      1      1      1      1      1      1      1      2      3      1      1      1      1
## 2      0      0      0      0      0      0      0      0      0      0      0      0      1      0      1
## 3      0      0      0      0      0      0      0      1      0      0      0      0      0      0      0
##   OTH_181 OTH_215 OTH_220 OTH_281 OTH_293 YIKE BLOO SETE LLLN AARD APLO BBMM
## 1      1      1      1      1      1      1      1      1      1      2      1      1      1
## 2      0      0      0      0      0      0      2      0      0     25     2      1      0
## 3      0      0      0      0      0      0      0      0      0      4     22     0      0      0
##   BKTS BNSE EQDT FTSH OTH_230 OTH_561 PMID SLIT WHTS WINE LA55 SOGG YNOT NKLD
## 1      1      1      1      1      1      1      1      1      1      1      1      3      1      1
## 2      0      1      1      1      0      0      0      1      1      2      0      1      2      3
## 3      0      0      0      0      0      0      0      0      0      0      0      0      1      0
##   C794 HOOV OTH_183 QECD SOFA ACIDI CSTY FFCH LBSL WINS HUEY HBM1 OTH_644 VAIL
## 1     27      1      1      2      1      1      2      2      2      3      1      1      1      1
## 2      0      0      0     38     0      0      6      4     13     2      5      2      0      5
## 3      0      0      0      6      0      0      3      5      6      3      0      0      0      1
##   SQBT ARRR HALF MGUC KNSY OTH_607 DAFT OTH_1080 MTHR OTH_590 C336 SKYE ZIPP
## 1      2      1      1      1      2      2     19      1      4      1      7      3      1
## 2     10     10      0      0      0      0     52      0      0      0      0      0      5
## 3      5      2      0      0      0      0     13      0      1      0      0      1      2
##   HAMM BMRD GALT ZOOK B033 FAST SWPT NKJG KITT OTH_295 OTH_169 BRD3 F185 PILA
## 1      1      1      2      1      1      4      1      1      1      1      1      3      2      2

```

## 2	5	8	0	3	0	0	1	0	0	0	0	0	32	55	24
## 3	0	0	0	0	0	0	0	0	0	0	0	0	19	14	0
##	GRPS	CYRN	NIBD	OTH_519	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
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## 2	1	2	1	0	2	1	1	1	1	1	1	1	1	6	11
## 3	0	0	0	0	0	0	0	0	0	0	0	0	5	0	8
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## 2	5	5	1	1	235	1	9	103	15	40	1	19	1	1	414
## 3	3	3	0	0	128	0	0	0	0	26	10	6	0	0	26
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## 2	338	98	18	3	121	1	3	5	2	196	4	2	377	140	336
## 3	77	0	2	0	0	0	0	6	0	130	0	0	223	0	127
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## 2	315	7	1	5	19	2	7	1	1	1	8	1	1	1	1
## 3	128	0	0	0	12	0	0	0	0	0	12	1	0	0	0
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## 2	6	5	1	2	5	5	48	50	17	4	4	1	268	10	1
## 3	0	0	1	0	0	0	36	0	0	3	2	0	226	17	0
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## 2	1	2	2	1	1	13	330	1	8	4	6	1	11	35	7
## 3	0	6	0	0	0	0	158	0	0	4	1	0	0	0	0
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## 2	31	1	1	1	132	95	1	75	1	33	1	2	2	3	1
## 3	12	0	0	0	136	80	0	0	0	12	0	0	0	1	0
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## 2	1	1	14	4	37	51	11	2	38	10	3	1	1	38	66
## 3	1	0	0	0	31	24	0	0	0	4	0	0	0	0	0
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## 2	159	178	36	199	26	320	6	34	41	2	3	7	6	6	2
## 3	0	134	0	34	0	139	0	12	0	0	0	0	4	4	0
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## 3	0	0	16	0	0	2	11	0	71	33	0	14	2	3	3
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## 3	0	0	6	0	0	0	0	9	2	0	0	2	74	0	0
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## 3	0	0	0	2	0	0	50	1	1	1	1	69	7	173	121
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## 2	85	8	17	188	129	272	1	1	1	21	1	1	1	6	3
## 3	0	0	0	150	51	150	0	0	0	6	0	0	0	13	0

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## 3	0	4	8	2	0	0	0	0	0	7	10	8	63	0	23
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## 2	3	1	1	3	9	38	1	2	12	25	5	2	2	2	6
## 3	0	0	0	8	2	0	0	0	14	15	4	1	0	0	1
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## 3	0	0	0	0	0	0	0	0	5	1	0	1	15	0	144
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## 2	31	34	20	219	1	1	6	1	1	29	18	2	1	1	2
## 3	8	38	50	0	2	0	8	0	0	43	15	0	0	0	0
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## 2	215	8	110	2	2	5	161	116	3	2	3	5	1	1	2
## 3	120	0	68	0	5	0	71	131	0	0	0	5	0	0	6
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	9	60	61	6	3	3	3	8	9	6	10	1	1	1	1
## 3	0	0	0	6	0	1	0	0	5	4	8	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	8	1	2	22	14	1	11	2	2	4	4	36	1	1
## 3	0	0	0	0	9	4	0	4	0	0	0	0	59	0	1
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	6	6	5	4	17	5	6	2	3	2	1	4	2	1	1
## 3	15	2	25	3	7	0	0	0	0	0	15	0	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	7	6	1	3	6	9	9	7	3	5	1	1	170	159	6
## 3	15	0	2	0	9	8	15	1	2	2	0	1	129	175	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	1	1	2	1	1	1	1	1	6	1	1	3	1	1
## 3	0	0	0	0	0	0	0	0	0	34	0	0	0	1	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	1	1	1	9	7	2	1	9	23	5	97	105	31	13
## 3	0	0	0	0	0	2	2	0	14	9	13	141	51	0	12
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	47	1	15	16	1	1	48	126	19	19	1	60	58	60	1
## 3	53	0	3	12	0	0	2	127	0	0	0	13	50	44	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

## 2	1	1	3	76	5	1	1	1	3	6	3	1	4	19	2
## 3	1	0	0	70	8	2	5	4	0	8	9	0	0	65	0
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## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	2	1	1	4	2	20	8	8	8	1	1	6	2	1	1
## 3	0	0	0	0	10	5	0	5	16	0	1	7	1	3	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	7	2	1	6	4	27	5	6	16	1	57	1	2	2
## 3	0	0	0	0	3	0	4	8	24	0	4	109	0	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	3	2	3	1	19	1	1	1	1	1	1	1	1	1	1
## 3	3	0	0	1	25	0	0	1	1	1	0	0	1	0	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	1	8	24	35	66	1	2	1	5	1	5	5	38	1
## 3	1	1	9	4	27	160	0	0	0	4	0	4	0	0	0
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## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	27	10	51	66	8	7	6	1	10	3	4	2	4	5
## 3	4	0	0	156	123	0	6	0	0	0	0	0	0	1	6
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	3	5	4	4	2	2	2	1	1	1	1	3	1	1	1
## 3	22	9	0	1	0	0	5	0	1	0	0	2	8	0	13
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	1	1	1	6	2	3	1	3	2	1	1	2	1	1
## 3	0	0	0	1	11	4	1	0	4	1	11	0	1	1	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	18	2	2	6	2	3	4	1	4	4	1	1	11	1	3
## 3	146	6	6	2	0	0	19	0	8	0	6	4	138	0	5
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	2	3	6	5	11	5	1	1	1	1	10	1	1	1	1
## 3	1	1	18	23	71	37	0	3	5	0	144	2	0	2	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	1	1	1	5	1	1	1	3	1	1	1	1	1	1
## 3	1	1	1	6	107	0	1	2	4	0	2	2	0	1	0
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	2	1	1	1	1	1	1	1	1	1	0	0	0	0	0
## 3	0	0	0	0	0	3	0	7	0	0	2	3	3	2	1
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	1	1	1	1	9	157	51	1	1	1	1	39	171	165	74
##	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>	<NA>
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	95	32	141	18	1	8	1	15	1	164	60	3	7	3	173

[illegible]

[illegible]


```
##      <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA>
## 1      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 2      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 3      1      1      1      5      1      1      1      1      3      1      1      2      4      2      1
##      <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA> <NA>
## 1      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 2      0      0      0      0      0      0      0      0      0      0      0      0      0      0
## 3      1      1      1     14      1      2      1      1      1      1      6      1      1      1
```

```
# Transforming into binary matrices
```

```
p8y <- as.matrix(p8y); p8y[which(p8y>=1)] = 1; p8y[which(p8y<1)] = 0
```

Calculate Null and Emperical Whittaker Dissimilarity Index between Time Period Lengths

```
source("../code/functions.R") # WDI & WDI permutation
```

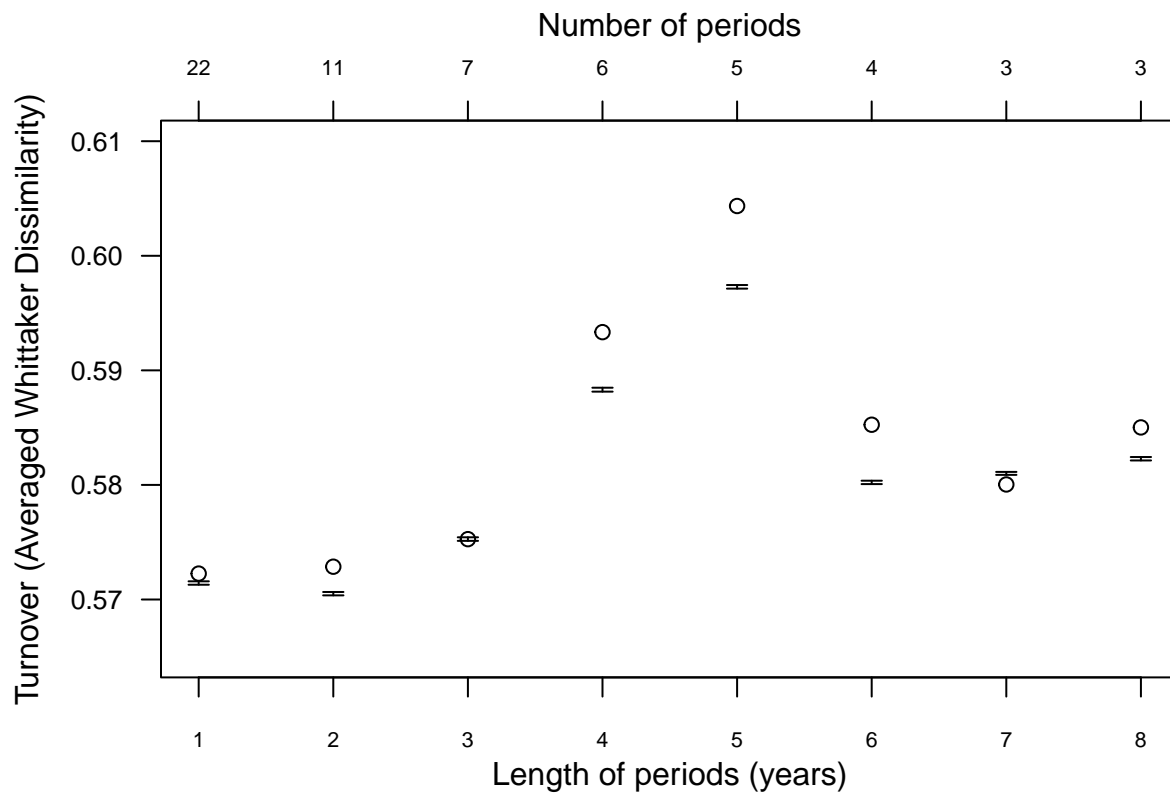
```
# Turn over results
```

```
t1 = turnover_w(data = p1y, iter = 1000, subseq=F, plot=FALSE)
t2 = turnover_w(data = p2y, iter = 1000, subseq=F, plot=FALSE)
t3 = turnover_w(data = p3y, iter = 1000, subseq=F, plot=FALSE)
t4 = turnover_w(data = p4y, iter = 1000, subseq=F, plot=FALSE)
t5 = turnover_w(data = p5y, iter = 1000, subseq=F, plot=FALSE)
t6 = turnover_w(data = p6y, iter = 1000, subseq=F, plot=FALSE)
t7 = turnover_w(data = p7y, iter = 1000, subseq=F, plot=FALSE)
t8 = turnover_w(data = p8y, iter = 1000, subseq=F, plot=FALSE)
```

```
all = rbind(t1, t2, t3, t4, t5, t6, t7, t8)
all = cbind(c(1, 2, 3, 4, 5, 6, 7, 8), all)
```

```
par(mar=c(4,5,4,1))
```

```
# Plot the final results. Whisker represent 95%CI generated by the null model. X-axis represent the num
errbar(x=c(1, 2, 3, 4, 5, 6, 7, 8), y=all[,2], all[,4], all[,5], ylab="Turnover (Averaged Whittaker Dis
      pch=1, cap=0.02, xaxt='n', xlab="", las=1, cex=1.0, ylim=c(0.565,0.61), xlim=c(1,8), cex.axis=0.
axis(1, at=c(1, 2, 3, 4, 5, 6, 7, 8),las=1, cex.axis=0.7)
mtext(side = 1, "Length of periods (years)", line = 2, font = 1)
axis(3, at=c(1, 2, 3, 4, 5, 6, 7, 8),las=1, labels=c(22, 11, 7, 6, 5, 4, 3, 3), cex.axis=0.7)
mtext(side = 3, "Number of periods", line = 2, font = 1)
```



```
# Print final results
all
```

```
##          Empirical      SD    2.5%CI  97.5%CI
## Turnover 1 0.5722610 0.1412982 0.5712877 0.5715862
## Turnover 2 0.5728612 0.1346759 0.5703594 0.5706545
## Turnover 3 0.5752652 0.1295006 0.5751164 0.5754296
## Turnover 4 0.5933349 0.1256835 0.5881425 0.5884857
## Turnover 5 0.6043450 0.1244430 0.5971328 0.5974489
## Turnover 6 0.5852543 0.1230493 0.5800727 0.5803674
## Turnover 7 0.5800392 0.1086852 0.5808786 0.5811367
## Turnover 8 0.5850189 0.1171334 0.5821342 0.5824361
```