Gibbs Sampling Algorithm

5/4/2022

```r
hurr_df <- read_csv("./data/hurricane703.csv") %>%
  drop_na() %>%
  group_by(ID) %>%
  filter(n() > 1) %>%
  # create delta variables and wind lag - wind speed at time t, Y(t)
  mutate(lat_change = c(0, diff(Latitude, lag = 1)), # I put zero for first entry, could be NA
         lng_change = c(0, diff(Longitude, lag = 1)),
         wind_change = c(0, diff(Wind.kt, lag = 1)),
         wind_lag = lag(Wind.kt, n = 1)) %>%
  dplyr::select(ID, lat_change, lng_change, wind_change, wind_lag, Wind.kt) %>%
  nest(y = Wind.kt, x = lat_change:wind_lag) %>%
  mutate(x = map(.x = x, .f = ~model.matrix(~., data = .x)),
         y = map(.x = y, .f = pull))
```

```
## Rows: 22038 Columns: 8
## -- Column specification --------------------------------------------------------
## Delimiter: ","
## chr (4): ID, Month, Nature, time
## dbl (4): Season, Latitude, Longitude, Wind.kt
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```r
hurr_list <- list(
  y = hurr_df$y,
  x = hurr_df$x
)
```

```r
# you can extract data like this
hurr_list$x[[1]]
```

```
##    (Intercept) lat_change lng_change wind_change wind_lag
## 2            1        0.6       -0.8           5       35
## 3            1        0.5       -1.1           5       40
## 4            1        0.8       -1.2           5       45
## 5            1        1.0       -1.4           0       50
## 6            1        0.7       -1.1           0       50
## 7            1        0.6       -1.1           5       50
## 8            1        0.7       -1.0           0       55
## 9            1        0.7       -0.6           5       55
## 10           1        0.4       -0.8           0       60
## 11           1        0.3       -0.8           0       60
```

```
## 12             1        0.5        -0.6           5        60
## 13             1        0.5        -0.2           0        65
## 14             1        0.4        -0.3           0        65
## 15             1        0.4        -0.3           5        65
## 16             1        0.3        -0.7           5        70
## 17             1        0.2        -0.6           5        75
## 18             1        0.0        -0.6           0        80
## 19             1       -0.2        -0.6           0        80
## 20             1       -0.1        -0.5           5        80
## 21             1        0.0        -0.8           5        85
## 22             1        0.0        -0.9           5        90
## 23             1        0.1        -1.1           5        95
## 24             1        0.4        -0.7           0       100
## 25             1        0.8        -0.6           0       100
## 26             1        0.6        -0.5           0       100
## 27             1        0.6        -0.5           0       100
## 28             1        0.5        -0.4           5       100
## 29             1        0.7        -0.2           0       105
## 30             1        0.8         0.0           0       105
## 31             1        0.8         0.0           0       105
## 32             1        1.0         0.0           5       105
## 33             1        1.1         0.3           0       110
## 34             1        1.6         0.9          -5       110
## 35             1        1.6         1.6          -5       105
## 36             1        1.6         1.7         -10       100
## 37             1        1.7         1.6         -10        90
## 38             1        1.9         2.1         -10        80
## 39             1        2.1         2.3          -5        70
## 40             1        1.3         1.3           0        65
## 41             1        0.9         1.1         -20        65
## 42             1        2.4         2.8         -10        45
## 43             1        2.1         3.0          -5        35
## 44             1        2.0         3.0           0        30
## 45             1        1.6         3.1           0        30
## 46             1        1.1         3.0           5        30
## 47             1        0.6         2.9           0        35
## 48             1        0.0         3.0           0        35
## 49             1       -0.8         4.1          -5        35
## 50             1       -1.0         4.0           0        30
## 51             1       -1.0         3.4           0        30
## attr(,"assign")
## [1] 0 1 2 3 4
```

```
hurr_list$y[[1]]
```

```
##  [1]  35  40  45  50  50  50  55  55  60  60  60  65  65  65  70  75  80  80  80
## [20]  85  90  95 100 100 100 100 100 105 105 105 105 110 110 105 100  90  80  70
## [39]  65  65  45  35  30  30  30  35  35  35  30  30  30
```

```
# list of theta parameters
theta <- list(
  "beta" = list("beta" = matrix(data = 1, nrow = 1, ncol = 5),
                "mu" = 0,
```

```r
                   "sigma" = 0),
  "B" = list(matrix(data = 1, nrow = nrow(hurr_df), ncol = 5),
             "mu" = 0,
             "sigma" = 0),
  "sigma2" = c(3),
  "sigma_m" = matrix(data = 1, nrow = 5, ncol = 5) + diag(1, 5, 5)
)
```

```r
# log posterior of sigma^2
log_sigma2 <- function(data, i){
  # alpha parameter of distribution
  alpha = 1 + sum(dim(data[[i]]$y)) / 2
  # beta parameter of distribution
  b = (1/2) * sum(t(data[[i]]$y - data[[i]]$x %*% t(theta$beta)) %*% diag(length(data[[i]]$y)) %*% (dat
  # pulling sigma^2 from theta list
  tau = theta$sigma2

  return(alpha * log(b) - log(gamma(alpha)) + (alpha - 1) * log(tau) - tau * b)
}


# log posterior of beta
log_beta <- function(){
  v = sum(theta$sigma_m)
  u = sum(theta$sigma_m %*% t(theta$beta))

  return(-(1/2) * log(det(2 * pi * solve(v, tol = 1e-95))) - (1/2) * t((theta$beta - solve(v, tol = 1e-9
}

# log posterior of B
log_B <- function(data, i){
  v = t(data$x[[i]]) %*% (1 / diag(theta$sigma2)) %*% data[[i]]$x + theta$sigma_m
  u = data[[i]]$x %*% (1 / diag(theta$sigma2)) %*% data[[i]]$y + theta$sigma_m %*% t(theta$beta)

  return(-(1/2) * log(det(2 * pi * solve(v, tol = 1e-95))) - (1/2) * t((theta$B - solve(v, tol = 1e-95)
}
```

```r
beta_dist <- function(sigma, B){
  # sigma stored as inverse
  u_matrix <- matrix(0, nrow = 5, ncol = nrow(hurr_df))
  for(i in 1:nrow(hurr_df)){

    u_matrix[,i] = sigma %*% t(matrix(B[i,], ncol = 5))

  }

  u = rowSums(u_matrix)

  mu = (solve(sigma, tol = 1e-95) / nrow(hurr_df)) %*% matrix(u, nrow = 5)
  sigma = solve(sigma, tol = 1e-95) / nrow(hurr_df)

  sample = mvrnorm(n = 1, mu, sigma)

  return(list("beta" = sample,
```

```r
                "mu" = mu,
                "sigma" = sigma))
}

B_dist <- function(x, y, sigma2, sigma_m, beta){
  B_list <- list()

  v_list <- list()
  for(i in 1:nrow(hurr_df)){
    if(length(y[[i]]) < 2){
      next
    }
    attr(x[[i]], which = "assign") <- NULL
    attr(x[[i]], which = "dimnames") <- NULL
    y_adj <- y[[i]][-1]

    mat <- diag(sigma2, nrow = length(y_adj), ncol = length(y_adj))

    u <- t(x[[i]]) %*% solve(mat, tol = 1e-95) %*% y_adj + sigma_m %*% t(beta)
    v <- t(x[[i]]) %*% solve(mat, tol = 1e-95) %*% x[[i]] + sigma_m

    mu <- solve(v, tol = 1e-95) %*% u
    sigma <- solve(v, tol = 1e-95)
    v_list[[i]] <- v

    B_list[[i]] <- mvrnorm(n = 1, mu, sigma)

  }

  B_matrix <- do.call(rbind, B_list)

  return(list("B" = B_matrix,
              "mu" = mu,
              "v" = v_list))

}

sigma2_dist <- function(B, x, y){
  length_vec = sapply(y, length)

  beta_vec <- c()
  for(i in 1:nrow(hurr_df)){
    attr(x[[i]], which = "assign") <- NULL
    attr(x[[i]], which = "dimnames") <- NULL
    y_adj <- y[[i]][-1]

    #res <- t(y_adj - x[[i]] %*% B[i,]) %*% diag(length(y_adj)) %*% (y_adj - x[[i]] %*% (B[i,]))
    res <- sum((y_adj - (x[[i]] %*% B[i,]))^2)

    beta_vec[i] <- res
  }

  # alpha parameter of distribution
```

```r
  alpha = sum(length_vec) / 2
  # beta parameter of distribution
  b = (1/2) * sum(beta_vec)

  sample = rinvgamma(n = 1, shape = alpha, scale = b)
  return(sample)
}

sigma_m_dist <- function(beta, B){
 prev_matrix <- matrix(0, nrow = 5, ncol = 5)

 for(i in 1:nrow(hurr_df)){

   matrix <- t(B[i,] - beta) %*% (B[i,] - beta) + prev_matrix

   prev_matrix <- matrix
 }
 matrix <- matrix + diag(1, 5, 5)

 #mat_param <- solve(matrix)

 n = nrow(hurr_df)

 sample = matrix(riwish(v = n + 6, S = matrix),
                 ncol = 5)

 #sample = matrix(rWishart(n = 1, df = n + 6, Sigma = mat_param),
 #                ncol = 5)

  return(sample)
}
```

```r
beta_dist
```

```r
## function(sigma, B){
##   # sigma stored as inverse
##   u_matrix <- matrix(0, nrow = 5, ncol = nrow(hurr_df))
##   for(i in 1:nrow(hurr_df)){
##
##     u_matrix[,i] = sigma %*% t(matrix(B[i,], ncol = 5))
##
##   }
##
##   u = rowSums(u_matrix)
##
##   mu = (solve(sigma, tol = 1e-95) / nrow(hurr_df)) %*% matrix(u, nrow = 5)
##   sigma = solve(sigma, tol = 1e-95) / nrow(hurr_df)
##
##   sample = mvrnorm(n = 1, mu, sigma)
##
##   return(list("beta" = sample,
##               "mu" = mu,
##               "sigma" = sigma))
```

```
## }

gibbs_fun <- function(iter, start, data){
  set.seed(052022)
  beta_list <- list()
  sigma_list <- list()
  sigma2_list <- list()
  B_list <- list()

  beta_list[[1]] <- start$beta
  sigma_list[[1]] <- start$sigma_m
  sigma2_list[[1]] <- start$sigma2
  B_list[[1]] <- theta$B
  # added code to catch data before error
  tryCatch(expr = {
  for (i in 2:iter){
    #browser()
    beta_list[[i]] <- beta_dist(sigma = sigma_list[[i-1]], B = B_list[[i-1]][[1]])
    sigma_list[[i]] <- sigma_m_dist(beta = matrix(beta_list[[i]][[1]], ncol = 5), B = B_list[[i-1]][[1]]
    sigma2_list[[i]] <- sigma2_dist(B = B_list[[i-1]][[1]], x = data$x, y = data$y)
    B_list[[i]] <- B_dist(x = data$x, y = data$y, sigma2 = sigma2_list[[i]],
                          sigma_m = sigma_list[[i]], beta = matrix(beta_list[[i]][[1]], ncol = 5))
  }
  },
  error = function(e){print(e)},
  finally = list(beta = beta_list, sigma_m = sigma_list,
            sigma2 = sigma2_list, B = B_list)
  )
  return(list(beta = beta_list, sigma_m = sigma_list,
            sigma2 = sigma2_list, B = B_list))

}
test <- gibbs_fun(iter = 1000, start = theta, data = hurr_list)
# the following code reproduced error for me in B_dist function
B_dist(hurr_list$x, hurr_list$y, test$sigma2[[144]], test$sigma_m[[144]], matrix(test$beta[[144]]$beta,
```

```
## $B
##             [,1]      [,2]       [,3]      [,4]       [,5]
##   [1,] -4129.848 1692.083 -871.5152 36.77948  40.93308
##   [2,] -4131.048 1691.746 -869.9141 32.54374  50.89870
##   [3,] -4136.212 1693.584 -861.9149 34.59313  42.58753
##   [4,] -4137.152 1690.696 -869.7326 41.52942  39.80302
##   [5,] -4128.530 1689.970 -872.7616 39.83265  55.93422
##   [6,] -4134.699 1691.272 -864.7464 33.45584  38.57338
##   [7,] -4131.071 1689.817 -869.7815 36.18323  49.68859
##   [8,] -4132.911 1690.201 -867.4634 36.15891  62.36436
##   [9,] -4131.533 1690.131 -866.0363 43.73240  60.13701
##  [10,] -4136.012 1685.865 -869.3186 31.43935  42.23440
##  [11,] -4133.111 1690.815 -864.6605 39.43986  44.69557
##  [12,] -4128.255 1680.899 -866.7473 29.74944  69.00439
##  [13,] -4128.709 1696.542 -875.4395 38.03774  50.67155
##  [14,] -4131.219 1691.442 -866.8581 35.95324  49.62039
##  [15,] -4129.052 1691.176 -877.9536 37.89564  41.54087
##  [16,] -4137.817 1692.039 -855.3735 27.54046  41.96270
```

```
## [17,] -4134.707 1690.224 -867.6085 34.29361  42.63628
## [18,] -4136.077 1695.433 -866.3754 33.12633  23.74334
## [19,] -4128.654 1691.184 -878.2508 40.23017  31.12729
## [20,] -4132.804 1696.139 -869.2340 42.03265  49.38810
## [21,] -4134.696 1691.872 -870.4531 34.69908  53.57575
## [22,] -4133.356 1690.600 -871.2023 41.80527  51.20675
## [23,] -4126.526 1686.969 -874.1278 39.25028  82.48092
## [24,] -4130.584 1688.828 -870.9216 33.40474  46.13901
## [25,] -4133.462 1692.939 -862.6775 24.52682  32.15825
## [26,] -4131.162 1690.749 -864.2455 35.85566  52.63342
## [27,] -4130.990 1689.906 -867.1095 35.99289  38.88896
## [28,] -4131.860 1684.870 -866.5283 35.33191  71.48186
## [29,] -4134.804 1693.967 -867.5110 40.22770  48.53086
## [30,] -4130.429 1689.704 -868.3087 42.74197  76.82406
## [31,] -4127.008 1694.399 -873.8871 36.34400  44.46148
## [32,] -4136.427 1695.153 -865.4934 36.31087  27.38848
## [33,] -4130.934 1687.009 -866.2511 36.27647  63.89008
## [34,] -4125.960 1691.230 -878.3195 31.81356  32.64003
## [35,] -4131.403 1691.014 -870.1466 33.00479  30.97493
## [36,] -4131.450 1687.715 -867.4164 39.11822  74.87782
## [37,] -4137.050 1682.743 -859.8065 29.06152  75.14989
## [38,] -4132.775 1688.579 -851.9444 34.92464  73.16332
## [39,] -4129.772 1687.274 -871.6581 36.16908  62.08644
## [40,] -4127.681 1688.180 -873.5184 33.17084  38.90523
## [41,] -4129.419 1693.518 -870.0954 40.16750  48.39078
## [42,] -4136.115 1686.832 -863.2052 25.77191  33.55573
## [43,] -4128.505 1688.046 -871.6722 36.14374  78.32719
## [44,] -4126.302 1695.147 -876.5457 39.84934  55.81316
## [45,] -4136.477 1696.460 -862.5660 38.93833  27.54935
## [46,] -4133.774 1689.161 -864.8272 39.00891  67.27613
## [47,] -4129.669 1700.167 -868.8272 38.65889  23.85041
## [48,] -4132.817 1690.432 -865.1044 32.95434  35.98991
## [49,] -4129.945 1693.851 -866.5225 35.56465  43.36766
## [50,] -4128.859 1692.630 -873.7453 36.12829  32.27874
## [51,] -4125.798 1688.820 -874.9780 29.75022  59.96393
## [52,] -4132.114 1684.551 -867.1446 29.40612  49.03167
## [53,] -4128.972 1697.154 -873.0315 43.17099  38.07858
## [54,] -4136.798 1700.970 -860.3019 39.05061  28.06217
## [55,] -4130.112 1687.884 -871.3555 34.19954  44.51236
## [56,] -4128.241 1693.094 -870.2741 41.47830  58.97061
## [57,] -4137.111 1688.643 -860.7249 29.35891  36.54026
## [58,] -4123.946 1683.606 -875.5872 40.47277 102.05751
## [59,] -4133.638 1694.049 -861.1400 41.16572  64.34742
## [60,] -4133.519 1687.646 -859.1686 31.16435  67.59528
## [61,] -4126.402 1683.362 -871.6604 37.70135  83.80222
## [62,] -4133.287 1688.149 -862.6994 39.17826  70.92006
## [63,] -4127.409 1692.089 -872.4355 35.22328  43.65497
## [64,] -4127.794 1683.918 -875.4566 37.42577  72.62311
## [65,] -4131.514 1691.009 -871.5658 33.22979  39.99977
## [66,] -4131.107 1688.943 -864.4927 39.28170  77.90648
## [67,] -4134.537 1686.784 -870.6312 27.52352  50.77810
## [68,] -4127.989 1688.085 -872.5124 35.94063  67.41784
## [69,] -4130.714 1685.654 -875.2659 38.83420  60.14127
## [70,] -4128.032 1680.754 -872.7086 33.29888  67.01558
```

```
##  [71,] -4135.622 1690.822 -870.2013 31.15294  36.91652
##  [72,] -4132.475 1691.256 -865.1541 35.20162  53.80291
##  [73,] -4128.350 1693.374 -875.9216 37.76848  42.64954
##  [74,] -4120.468 1692.047 -887.0080 42.80273  54.51440
##  [75,] -4123.649 1694.917 -881.3217 42.71734  50.57648
##  [76,] -4124.642 1692.576 -877.5855 34.14683  53.04408
##  [77,] -4132.825 1690.806 -867.7727 31.42970  31.92993
##  [78,] -4128.520 1688.105 -871.9117 37.17097  65.14042
##  [79,] -4129.851 1683.294 -870.5803 36.20466  69.82776
##  [80,] -4129.397 1683.822 -873.8768 33.87276  84.00078
##  [81,] -4131.499 1687.462 -872.3672 41.69102  78.88913
##  [82,] -4125.533 1682.435 -875.5235 37.18740  79.34675
##  [83,] -4134.034 1688.936 -861.2724 34.01040  72.05558
##  [84,] -4128.496 1689.977 -869.9339 34.13151  45.99052
##  [85,] -4131.402 1695.861 -870.1669 36.82821  41.43720
##  [86,] -4132.552 1693.524 -866.6433 31.06724  39.07723
##  [87,] -4130.750 1683.850 -867.2378 39.02753  95.52458
##  [88,] -4127.351 1687.177 -865.2949 35.29393  82.00069
##  [89,] -4130.474 1691.565 -866.8023 34.40426  56.80764
##  [90,] -4133.136 1686.641 -866.2628 29.76338  51.68826
##  [91,] -4132.231 1693.208 -866.8285 33.06258  30.22076
##  [92,] -4131.632 1694.846 -867.0452 38.04604  23.22263
##  [93,] -4143.434 1691.287 -851.6608 32.09382  43.40237
##  [94,] -4132.142 1680.594 -864.6989 35.34098 104.46031
##  [95,] -4135.800 1697.950 -865.1289 32.70263  29.35021
##  [96,] -4129.777 1694.747 -876.4304 31.43133  36.86777
##  [97,] -4132.724 1687.330 -872.4080 31.97053  35.73858
##  [98,] -4127.190 1695.751 -878.2126 41.66928  43.58835
##  [99,] -4131.273 1696.325 -875.1395 37.20477  25.32066
## [100,] -4129.298 1686.469 -874.2836 29.48683  37.03194
## [101,] -4129.297 1692.381 -873.2541 38.25210  62.62631
## [102,] -4132.732 1691.522 -866.9293 36.66677  33.24279
## [103,] -4128.737 1684.561 -874.6607 43.73631  82.57054
## [104,] -4125.660 1684.809 -871.1223 30.57130  64.10797
## [105,] -4130.736 1686.902 -866.1387 32.32536  62.04469
## [106,] -4128.336 1682.976 -878.0521 34.14801  73.93002
## [107,] -4133.717 1690.520 -863.8401 39.10273  64.17397
## [108,] -4133.745 1691.941 -863.9227 36.58304  44.41548
## [109,] -4122.976 1690.181 -875.2449 37.83277  53.98302
## [110,] -4134.273 1687.976 -862.9501 31.69956  51.48818
## [111,] -4132.188 1685.140 -872.3637 33.22741  38.63317
## [112,] -4133.957 1686.796 -866.2304 38.42178  70.56248
## [113,] -4131.846 1693.576 -868.6248 40.83560  56.34918
## [114,] -4132.123 1697.957 -867.6218 35.60749  40.45366
## [115,] -4126.867 1691.500 -873.5899 33.80481  33.32158
## [116,] -4130.309 1686.348 -874.4566 35.69953  53.17340
## [117,] -4130.176 1683.705 -862.9918 33.02707  87.42682
## [118,] -4124.317 1682.854 -876.0153 34.42084  77.18501
## [119,] -4130.722 1687.324 -863.1273 39.31626  94.46756
## [120,] -4136.149 1692.894 -863.2780 37.12340  35.07171
## [121,] -4132.596 1689.704 -868.5152 29.43910  35.07431
## [122,] -4135.595 1689.758 -863.7616 31.97771  35.76105
## [123,] -4129.468 1689.526 -872.8606 39.18178  61.26517
## [124,] -4127.441 1692.791 -870.9314 32.08338  39.75010
```

```
## [125,] -4135.606 1701.601 -861.7913 34.88330  25.86536
## [126,] -4137.404 1691.439 -865.9720 42.33688  56.47839
## [127,] -4131.203 1689.217 -866.3596 34.38406  68.46228
## [128,] -4136.552 1690.949 -867.7932 38.40587  37.94018
## [129,] -4128.570 1686.595 -873.2279 35.01553  54.42781
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## [653,] -4130.750 1688.494 -867.7011 32.92658  56.65473
## [654,] -4121.089 1690.348 -878.3540 47.76334 113.78895
## [655,] -4129.586 1691.810 -873.2616 48.19466  69.24062
## [656,] -4131.195 1691.444 -877.4815 34.19681  31.57929
## [657,] -4126.998 1682.995 -870.9248 32.47401  81.60132
## [658,] -4133.647 1684.291 -864.8301 35.00756  71.30692
## [659,] -4129.782 1692.503 -873.3847 39.27084  48.19898
## [660,] -4132.910 1684.525 -866.4969 38.19849  81.90778
## [661,] -4122.893 1694.360 -874.9962 40.81993  56.82984
## [662,] -4128.812 1687.594 -871.5838 38.59214  86.42001
## [663,] -4133.368 1693.702 -872.4296 30.07560  30.87017
## [664,] -4130.785 1692.709 -865.0437 37.06760  53.70912
```

```
## [665,] -4133.948 1687.715 -871.5309 35.41056   56.18671
## [666,] -4133.440 1686.966 -867.9297 31.53363   53.46139
## [667,] -4125.827 1683.762 -873.2537 35.52606   86.38311
## [668,] -4128.424 1681.002 -870.8521 42.22920   96.78312
## [669,] -4121.971 1682.685 -880.2366 45.10470  112.01130
## [670,] -4131.603 1689.557 -862.2614 43.09545   92.05463
## [671,] -4130.740 1684.431 -866.7608 37.26264   99.48017
## [672,] -4141.135 1689.517 -863.4627 36.94048   55.74173
## [673,] -4130.286 1683.293 -870.7939 39.83597   75.22089
## [674,] -4130.459 1693.165 -863.8816 37.01072   60.12257
## [675,] -4132.732 1682.478 -864.5252 27.71154   71.20218
## [676,] -4128.333 1690.254 -876.0245 38.33942   58.72316
## [677,] -4127.130 1692.049 -873.5268 40.19237   43.88632
## [678,] -4130.166 1695.690 -869.9826 35.40864   47.28918
## [679,] -4129.982 1692.901 -874.8805 37.76812   34.44797
## [680,] -4129.117 1689.384 -870.9131 32.93268   50.43731
## [681,] -4130.181 1698.446 -866.5286 45.66084   66.62907
## [682,] -4120.681 1691.924 -877.4193 35.10123   63.31511
## [683,] -4127.881 1686.188 -874.1994 42.42220   86.20436
## [684,] -4126.307 1693.749 -867.1976 38.54404   68.21334
## [685,] -4118.805 1691.021 -883.6962 37.56411   47.66498
## [686,] -4127.183 1683.504 -873.8368 39.23669   92.97764
## [687,] -4128.202 1691.925 -872.4438 44.20147   72.11756
## [688,] -4124.968 1684.295 -877.7714 36.45990   88.01265
## [689,] -4136.662 1695.221 -869.3029 34.85425   23.20585
## [690,] -4127.798 1689.708 -867.7135 34.07329   68.64867
## [691,] -4125.119 1680.476 -871.1889 37.00347   90.92530
## [692,] -4125.094 1684.920 -867.4998 35.75289   97.63740
## [693,] -4133.348 1686.466 -864.3497 36.12962   86.19498
## [694,] -4124.938 1683.070 -878.0388 44.07072  105.10121
## [695,] -4125.611 1693.803 -871.8303 38.05292   69.18159
## [696,] -4129.253 1691.758 -868.4502 40.22025   67.71118
## [697,] -4124.029 1687.076 -880.8354 49.99066  101.09744
## [698,] -4135.144 1689.585 -855.2363 28.81253   61.08052
## [699,] -4128.046 1684.888 -865.7504 33.51235   94.29723
## [700,] -4125.015 1686.108 -874.6317 37.63690   80.02826
##
## $mu
##             [,1]
## [1,] -4128.73509
## [2,]  1685.52882
## [3,]  -869.99137
## [4,]    37.72844
## [5,]    84.62674
##
## $v
## $v[[1]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866182 -0.08265275  0.15481787  0.05868855 -0.03311018
## [2,] -0.08265275  0.15367932 -0.05436244 -0.08014392  0.03247303
## [3,]  0.15481787 -0.05436244  0.11626748  0.04431415 -0.01936422
## [4,]  0.05868855 -0.08014392  0.04431415  0.10516704 -0.02124605
## [5,] -0.03311018  0.03247303 -0.01936422 -0.02124605  0.06809083
##
```

```
## $v[[2]]
##            [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866365 -0.08265487  0.15480544  0.05868651 -0.03319289
## [2,] -0.08265487  0.15367291 -0.05437106 -0.08013779  0.03222602
## [3,]  0.15480544 -0.05437106  0.11624534  0.04435060 -0.01985232
## [4,]  0.05868651 -0.08013779  0.04435060  0.10544275 -0.02141965
## [5,] -0.03319289  0.03222602 -0.01985232 -0.02141965  0.04901098
##
## $v[[3]]
##            [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866386 -0.08265309  0.15480844  0.05869263 -0.03305708
## [2,] -0.08265309  0.15367612 -0.05436651 -0.08011890  0.03237848
## [3,]  0.15480844 -0.05436651  0.11625433  0.04434264 -0.01971926
## [4,]  0.05869263 -0.08011890  0.04434264  0.10500366 -0.02100098
## [5,] -0.03305708  0.03237848 -0.01971926 -0.02100098  0.06473131
##
## $v[[4]]
##            [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866651 -0.08265087  0.15482331  0.05868446 -0.03254549
## [2,] -0.08265087  0.15367770 -0.05435610 -0.08012329  0.03269666
## [3,]  0.15482331 -0.05435610  0.11628742  0.04434243 -0.01899344
## [4,]  0.05868446 -0.08012329  0.04434243  0.10519768 -0.02157282
## [5,] -0.03254549  0.03269666 -0.01899344 -0.02157282  0.12830188
##
## $v[[5]]
##            [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865937 -0.08265667  0.15481130  0.05868548 -0.03335014
## [2,] -0.08265667  0.15367145 -0.05437010 -0.08012247  0.03212524
## [3,]  0.15481130 -0.05437010  0.11624024  0.04435836 -0.01955333
## [4,]  0.05868548 -0.08012247  0.04435836  0.10525384 -0.02137880
## [5,] -0.03335014  0.03212524 -0.01955333 -0.02137880  0.04634583
##
## $v[[6]]
##            [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865916 -0.08265385  0.15481303  0.05869263 -0.03320820
## [2,] -0.08265385  0.15367830 -0.05436046 -0.08015025  0.03251858
## [3,]  0.15481303 -0.05436046  0.11625466  0.04430312 -0.01941946
## [4,]  0.05869263 -0.08015025  0.04430312  0.10511599 -0.02104183
## [5,] -0.03320820  0.03251858 -0.01941946 -0.02104183  0.06636512
##
## $v[[7]]
##            [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865998 -0.08265238  0.15482161  0.05869365 -0.03330011
## [2,] -0.08265238  0.15368217 -0.05434463 -0.08014392  0.03247477
## [3,]  0.15482161 -0.05434463  0.11630458  0.04431496 -0.01890869
## [4,]  0.05869365 -0.08014392  0.04431496  0.10503940 -0.02096524
## [5,] -0.03330011  0.03247477 -0.01890869 -0.02096524  0.04754566
##
## $v[[8]]
##            [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865446 -0.08266051  0.15481068  0.05868855 -0.03371366
## [2,] -0.08266051  0.15366879 -0.05436809 -0.08012390  0.03192969
## [3,]  0.15481068 -0.05436809  0.11623980  0.04435632 -0.01960908
## [4,]  0.05868855 -0.08012390  0.04435632  0.10492197 -0.02111841
```

```
## [5,] -0.03371366  0.03192969 -0.01960908 -0.02111841  0.01578335
##
## $v[[9]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865467 -0.08266102  0.15481158  0.05868753 -0.03362074
## [2,] -0.08266102  0.15366893 -0.05436824 -0.08012605  0.03188599
## [3,]  0.15481158 -0.05436824  0.11623850  0.04435050 -0.01959857
## [4,]  0.05868753 -0.08012605  0.04435050  0.10531511 -0.02134817
## [5,] -0.03362074  0.03188599 -0.01959857 -0.02134817  0.02578534
##
## $v[[10]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865691 -0.08265485  0.15481467  0.05869467 -0.03344613
## [2,] -0.08265485  0.15367507 -0.05436290 -0.08012523  0.03233222
## [3,]  0.15481467 -0.05436290  0.11625218  0.04433518 -0.01932766
## [4,]  0.05869467 -0.08012523  0.04433518  0.10502408 -0.02087334
## [5,] -0.03344613  0.03233222 -0.01932766 -0.02087334  0.03939192
##
## $v[[11]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865773 -0.08265652  0.15481226  0.05868855 -0.03346247
## [2,] -0.08265652  0.15367151 -0.05436969 -0.08013473  0.03219355
## [3,]  0.15481226 -0.05436969  0.11623998  0.04437296 -0.01958090
## [4,]  0.05868855 -0.08013473  0.04437296  0.10554486 -0.02142475
## [5,] -0.03346247  0.03219355 -0.01958090 -0.02142475  0.03706374
##
## $v[[12]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865569 -0.08265844  0.15481442  0.05868753 -0.03359521
## [2,] -0.08265844  0.15366995 -0.05436769 -0.08013330  0.03203048
## [3,]  0.15481442 -0.05436769  0.11624030  0.04434927 -0.01942416
## [4,]  0.05868753 -0.08013330  0.04434927  0.10507004 -0.02123584
## [5,] -0.03359521  0.03203048 -0.01942416 -0.02123584  0.02489185
##
## $v[[13]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865426 -0.08265852  0.15481103  0.05868957 -0.03373000
## [2,] -0.08265852  0.15366947 -0.05436947 -0.08012645  0.03199617
## [3,]  0.15481103 -0.05436947  0.11623954  0.04435326 -0.01958396
## [4,]  0.05868957 -0.08012645  0.04435326  0.10492708 -0.02109288
## [5,] -0.03373000  0.03199617 -0.01958396 -0.02109288  0.01492560
##
## $v[[14]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865937 -0.08265750  0.15481383  0.05869365 -0.03330930
## [2,] -0.08265750  0.15367240 -0.05436753 -0.08012778  0.03212697
## [3,]  0.15481383 -0.05436753  0.11624764  0.04433140 -0.01934063
## [4,]  0.05869365 -0.08012778  0.04433140  0.10510067 -0.02103672
## [5,] -0.03330930  0.03212697 -0.01934063 -0.02103672  0.04974620
##
## $v[[15]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865446 -0.08265630  0.15481130  0.05869059 -0.03369733
## [2,] -0.08265630  0.15367386 -0.05436961 -0.08012717  0.03210441
```

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## [3,]   0.15481130 -0.05436961  0.11624089  0.04434621 -0.01959080
## [4,]   0.05869059 -0.08012717  0.04434621  0.10495260 -0.02107757
## [5,]  -0.03369733  0.03210441 -0.01959080 -0.02107757  0.01716188
##
## $v[[16]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866100 -0.08265799  0.15480166  0.05868957 -0.03315613
## [2,]  -0.08265799  0.15366924 -0.05437143 -0.08012462  0.03210410
## [3,]   0.15480166 -0.05437143  0.11625327  0.04434131 -0.02032857
## [4,]   0.05868957 -0.08012462  0.04434131  0.10577462 -0.02151665
## [5,]  -0.03315613  0.03210410 -0.02032857 -0.02151665  0.06788150
##
## $v[[17]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865937 -0.08265920  0.15480113  0.05868957 -0.03343183
## [2,]  -0.08265920  0.15366867 -0.05437007 -0.08012676  0.03199004
## [3,]   0.15480113 -0.05437007  0.11625661  0.04435877 -0.02011393
## [4,]   0.05868957 -0.08012676  0.04435877  0.10517215 -0.02121542
## [5,]  -0.03343183  0.03199004 -0.02011393 -0.02121542  0.03605282
##
## $v[[18]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865875 -0.08265058  0.15481207  0.05869365 -0.03331338
## [2,]  -0.08265058  0.15369001 -0.05435590 -0.08014514  0.03270218
## [3,]   0.15481207 -0.05435590  0.11629989  0.04430577 -0.01952229
## [4,]   0.05869365 -0.08014514  0.04430577  0.10507004 -0.02102141
## [5,]  -0.03331338  0.03270218 -0.01952229 -0.02102141  0.05167614
##
## $v[[19]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866059 -0.08265348  0.15481264  0.05869059 -0.03300704
## [2,]  -0.08265348  0.15367675 -0.05436682 -0.08013605  0.03252685
## [3,]   0.15481264 -0.05436682  0.11625748  0.04430291 -0.01961940
## [4,]   0.05869059 -0.08013605  0.04430291  0.10520789 -0.02118989
## [5,]  -0.03300704  0.03252685 -0.01961940 -0.02118989  0.09171472
##
## $v[[20]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865283 -0.08265963  0.15481181  0.05868957 -0.03376064
## [2,]  -0.08265963  0.15366865 -0.05436905 -0.08012431  0.03196482
## [3,]   0.15481181 -0.05436905  0.11623886  0.04435356 -0.01957161
## [4,]   0.05868957 -0.08012431  0.04435356  0.10494750 -0.02110310
## [5,]  -0.03376064  0.03196482 -0.01957161 -0.02110310  0.01462947
##
## $v[[21]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865998 -0.08265291  0.15482457  0.05869365 -0.03334606
## [2,]  -0.08265291  0.15368018 -0.05435287 -0.08012615  0.03235040
## [3,]   0.15482457 -0.05435287  0.11628233  0.04433426 -0.01875685
## [4,]   0.05869365 -0.08012615  0.04433426  0.10503940 -0.02100609
## [5,]  -0.03334606  0.03235040 -0.01875685 -0.02100609  0.04382363
##
## $v[[22]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28865610 -0.08265808  0.15481162  0.05868855 -0.03360338
## [2,]  -0.08265808  0.15366947 -0.05436914 -0.08012329  0.03203670
## [3,]   0.15481162 -0.05436914  0.11623869  0.04435326 -0.01957099
## [4,]   0.05868855 -0.08012329  0.04435326  0.10501387 -0.02116436
## [5,]  -0.03360338  0.03203670 -0.01957099 -0.02116436  0.02309466
##
## $v[[23]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865610 -0.08265979  0.15481489  0.05868753 -0.03360032
## [2,]  -0.08265979  0.15367015 -0.05436856 -0.08011573  0.03197830
## [3,]   0.15481489 -0.05436856  0.11624333  0.04435428 -0.01944223
## [4,]   0.05868753 -0.08011573  0.04435428  0.10514151 -0.02126137
## [5,]  -0.03360032  0.03197830 -0.01944223 -0.02126137  0.02317124
##
## $v[[24]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866427 -0.08265389  0.15480243  0.05868957 -0.03325824
## [2,]  -0.08265389  0.15367433 -0.05437070 -0.08013483  0.03228351
## [3,]   0.15480243 -0.05437070  0.11625851  0.04433610 -0.02000181
## [4,]   0.05868957 -0.08013483  0.04433610  0.10520278 -0.02123074
## [5,]  -0.03325824  0.03228351 -0.02000181 -0.02123074  0.04283314
##
## $v[[25]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865937 -0.08265162  0.15481530  0.05868651 -0.03316532
## [2,]  -0.08265162  0.15368052 -0.05436092 -0.08013799  0.03260558
## [3,]   0.15481530 -0.05436092  0.11625505  0.04432579 -0.01937902
## [4,]   0.05868651 -0.08013799  0.04432579  0.10500366 -0.02129201
## [5,]  -0.03316532  0.03260558 -0.01937902 -0.02129201  0.06955105
##
## $v[[26]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865916 -0.08265430  0.15481704  0.05869263 -0.03331440
## [2,]  -0.08265430  0.15367505 -0.05436555 -0.08011665  0.03235744
## [3,]   0.15481704 -0.05436555  0.11625301  0.04432374 -0.01907360
## [4,]   0.05869263 -0.08011665  0.04432374  0.10510577 -0.02108267
## [5,]  -0.03331440  0.03235744 -0.01907360 -0.02108267  0.05081328
##
## $v[[27]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865487 -0.08265840  0.15481115  0.05868651 -0.03364831
## [2,]  -0.08265840  0.15366929 -0.05436943 -0.08012809  0.03203099
## [3,]   0.15481115 -0.05436943  0.11623872  0.04435611 -0.01961358
## [4,]   0.05868651 -0.08012809  0.04435611  0.10501387 -0.02126648
## [5,]  -0.03364831  0.03203099 -0.01961358 -0.02126648  0.02118514
##
## $v[[28]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865569 -0.08266022  0.15481232  0.05869059 -0.03361972
## [2,]  -0.08266022  0.15366943 -0.05436835 -0.08011553  0.03194909
## [3,]   0.15481232 -0.05436835  0.11623870  0.04435244 -0.01953250
## [4,]   0.05869059 -0.08011553  0.04435244  0.10524873 -0.02122053
## [5,]  -0.03361972  0.03194909 -0.01953250 -0.02122053  0.02291085
##
```

```
## $v[[29]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865814 -0.08265591  0.15481448  0.05868957 -0.03333993
## [2,] -0.08265591  0.15367231 -0.05436743 -0.08013248  0.03221132
## [3,]  0.15481448 -0.05436743  0.11624168  0.04434560 -0.01937085
## [4,]  0.05868957 -0.08013248  0.04434560  0.10556018 -0.02140944
## [5,] -0.03333993  0.03221132 -0.01937085 -0.02140944  0.05304446
##
## $v[[30]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866141 -0.08265675  0.15481191  0.05868957 -0.03338792
## [2,] -0.08265675  0.15367209 -0.05436940 -0.08012278  0.03210257
## [3,]  0.15481191 -0.05436940  0.11624002  0.04435101 -0.01957508
## [4,]  0.05868957 -0.08012278  0.04435101  0.10505982 -0.02115926
## [5,] -0.03338792  0.03210257 -0.01957508 -0.02115926  0.03146283
##
## $v[[31]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865589 -0.08265371  0.15481569  0.05869161 -0.03352578
## [2,] -0.08265371  0.15368139 -0.05436375 -0.08013360  0.03235377
## [3,]  0.15481569 -0.05436375  0.11624709  0.04433590 -0.01930948
## [4,]  0.05869161 -0.08013360  0.04433590  0.10514151 -0.02111841
## [5,] -0.03352578  0.03235377 -0.01930948 -0.02111841  0.03278520
##
## $v[[32]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866161 -0.08265062  0.15480629  0.05869365 -0.03313366
## [2,] -0.08265062  0.15368876 -0.05436337 -0.08013983  0.03274476
## [3,]  0.15480629 -0.05436337  0.11626105  0.04431159 -0.01997884
## [4,]  0.05869365 -0.08013983  0.04431159  0.10528447 -0.02112862
## [5,] -0.03313366  0.03274476 -0.01997884 -0.02112862  0.07130229
##
## $v[[33]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865937 -0.08265554  0.15482404  0.05868651 -0.03337567
## [2,] -0.08265554  0.15367507 -0.05436147 -0.08013483  0.03227626
## [3,]  0.15482404 -0.05436147  0.11626984  0.04432109 -0.01901070
## [4,]  0.05868651 -0.08013483  0.04432109  0.10515683 -0.02130732
## [5,] -0.03337567  0.03227626 -0.01901070 -0.02130732  0.04070408
##
## $v[[34]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865691 -0.08265254  0.15482192  0.05869059 -0.03345123
## [2,] -0.08265254  0.15368011 -0.05435127 -0.08013912  0.03246823
## [3,]  0.15482192 -0.05435127  0.11628842  0.04427013 -0.01901969
## [4,]  0.05869059 -0.08013912  0.04427013  0.10526916 -0.02123584
## [5,] -0.03345123  0.03246823 -0.01901969 -0.02123584  0.04241958
##
## $v[[35]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865589 -0.08265540  0.15481479  0.05868957 -0.03354007
## [2,] -0.08265540  0.15367466 -0.05436454 -0.08012043  0.03225114
## [3,]  0.15481479 -0.05436454  0.11625494  0.04432191 -0.01946480
## [4,]  0.05868957 -0.08012043  0.04432191  0.10527426 -0.02126648
```

```
## [5,] -0.03354007  0.03225114 -0.01946480 -0.02126648  0.03311196
##
## $v[[36]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865446 -0.08266026  0.15481011  0.05868855 -0.03367895
## [2,] -0.08266026  0.15366884 -0.05436881 -0.08012002  0.03193796
## [3,]  0.15481011 -0.05436881  0.11624104  0.04434825 -0.01966453
## [4,]  0.05868855 -0.08012002  0.04434825  0.10504451 -0.02117968
## [5,] -0.03367895  0.03193796 -0.01966453 -0.02117968  0.01914288
##
## $v[[37]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865610 -0.08265503  0.15481996  0.05868957 -0.03360032
## [2,] -0.08265503  0.15367505 -0.05435848 -0.08012778  0.03219396
## [3,]  0.15481996 -0.05435848  0.11625512  0.04434519 -0.01916775
## [4,]  0.05868957 -0.08012778  0.04434519  0.10496792 -0.02111331
## [5,] -0.03360032  0.03219396 -0.01916775 -0.02111331  0.02284448
##
## $v[[38]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865937 -0.08266185  0.15481906  0.05868446 -0.03340835
## [2,] -0.08266185  0.15368076 -0.05444136 -0.08013728  0.03188068
## [3,]  0.15481906 -0.05444136  0.11675022  0.04440237 -0.01950207
## [4,]  0.05868446 -0.08013728  0.04440237  0.10522831 -0.02143496
## [5,] -0.03340835  0.03188068 -0.01950207 -0.02143496  0.03551673
##
## $v[[39]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865446 -0.08265908  0.15481109  0.05868855 -0.03372898
## [2,] -0.08265908  0.15366892 -0.05436935 -0.08012707  0.03197840
## [3,]  0.15481109 -0.05436935  0.11623926  0.04435754 -0.01957957
## [4,]  0.05868855 -0.08012707  0.04435754  0.10493218 -0.02111841
## [5,] -0.03372898  0.03197840 -0.01957957 -0.02111841  0.01480817
##
## $v[[40]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865712 -0.08265489  0.15481348  0.05869365 -0.03341039
## [2,] -0.08265489  0.15367875 -0.05436568 -0.08013830  0.03231997
## [3,]  0.15481348 -0.05436568  0.11623986  0.04434886 -0.01945448
## [4,]  0.05869365 -0.08013830  0.04434886  0.10508025 -0.02100609
## [5,] -0.03341039  0.03231997 -0.01945448 -0.02100609  0.04330796
##
## $v[[41]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865508 -0.08265377  0.15482067  0.05869059 -0.03360849
## [2,] -0.08265377  0.15368148 -0.05435774 -0.08012104  0.03235611
## [3,]  0.15482067 -0.05435774  0.11627318  0.04431343 -0.01907891
## [4,]  0.05869059 -0.08012104  0.04431343  0.10509556 -0.02114394
## [5,] -0.03360849  0.03235611 -0.01907891 -0.02114394  0.02540752
##
## $v[[42]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866222 -0.08265066  0.15481565  0.05868957 -0.03319799
## [2,] -0.08265066  0.15368622 -0.05435927 -0.08015219  0.03259363
```

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## [3,]   0.15481565 -0.05435927  0.11625663  0.04431057 -0.01932817
## [4,]   0.05868957 -0.08015219  0.04431057  0.10518236 -0.02122053
## [5,]  -0.03319799  0.03259363 -0.01932817 -0.02122053  0.05793057
##
## $v[[43]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865283 -0.08266020  0.15481217  0.05868446 -0.03375247
## [2,]  -0.08266020  0.15366856 -0.05436855 -0.08012288  0.03193888
## [3,]   0.15481217 -0.05436855  0.11623819  0.04435867 -0.01956068
## [4,]   0.05868446 -0.08012288  0.04435867  0.10515683 -0.02137370
## [5,]  -0.03375247  0.03193888 -0.01956068 -0.02137370  0.01553828
##
## $v[[44]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08265940  0.15481028  0.05868957 -0.03368712
## [2,]  -0.08265940  0.15366868 -0.05436930 -0.08012431  0.03198064
## [3,]   0.15481028 -0.05436930  0.11624048  0.04435377 -0.01966075
## [4,]   0.05868957 -0.08012431  0.04435377  0.10504961 -0.02115415
## [5,]  -0.03368712  0.03198064 -0.01966075 -0.02115415  0.01906119
##
## $v[[45]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866243 -0.08265050  0.15481152  0.05868242 -0.03287225
## [2,]  -0.08265050  0.15368914 -0.05436817 -0.08017833  0.03271463
## [3,]   0.15481152 -0.05436817  0.11625255  0.04433273 -0.01983006
## [4,]   0.05868242 -0.08017833  0.04433273  0.10541211 -0.02163919
## [5,]  -0.03287225  0.03271463 -0.01983006 -0.02163919  0.10180350
##
## $v[[46]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865365 -0.08265895  0.15481113  0.05868446 -0.03372694
## [2,]  -0.08265895  0.15366903 -0.05436938 -0.08012778  0.03199851
## [3,]   0.15481113 -0.05436938  0.11623956  0.04436204 -0.01959315
## [4,]   0.05868446 -0.08012778  0.04436204  0.10496282 -0.02130222
## [5,]  -0.03372694  0.03199851 -0.01959315 -0.02130222  0.01633987
##
## $v[[47]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866141 -0.08265364  0.15480305  0.05868855 -0.03296517
## [2,]  -0.08265364  0.15367390 -0.05437386 -0.08013595  0.03247406
## [3,]   0.15480305 -0.05437386  0.11625529  0.04432303 -0.02026618
## [4,]   0.05868855 -0.08013595  0.04432303  0.10540190 -0.02135838
## [5,]  -0.03296517  0.03247406 -0.02026618 -0.02135838  0.10087938
##
## $v[[48]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866345 -0.08265401  0.15481213  0.05869059 -0.03311324
## [2,]  -0.08265401  0.15367263 -0.05436720 -0.08012686  0.03230424
## [3,]   0.15481213 -0.05436720  0.11626510  0.04435060 -0.01973866
## [4,]   0.05869059 -0.08012686  0.04435060  0.10521810 -0.02121031
## [5,]  -0.03311324  0.03230424 -0.01973866 -0.02121031  0.06411353
##
## $v[[49]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
```

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## [1,]  0.28866243 -0.08265491  0.15480960  0.05869161 -0.03317757
## [2,] -0.08265491  0.15367475 -0.05436790 -0.08012002  0.03231905
## [3,]  0.15480960 -0.05436790  0.11624848  0.04433457 -0.01958233
## [4,]  0.05869161 -0.08012002  0.04433457  0.10509046 -0.02111331
## [5,] -0.03317757  0.03231905 -0.01958233 -0.02111331  0.05488760
##
## $v[[50]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865753 -0.08265434  0.15481089  0.05869672 -0.03339916
## [2,] -0.08265434  0.15367513 -0.05436641 -0.08012615  0.03238154
## [3,]  0.15481089 -0.05436641  0.11625347  0.04432956 -0.01954148
## [4,]  0.05869672 -0.08012615  0.04432956  0.10501387 -0.02076102
## [5,] -0.03339916  0.03238154 -0.01954148 -0.02076102  0.04317011
##
## $v[[51]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865344 -0.08265995  0.15481197  0.05869161 -0.03372388
## [2,] -0.08265995  0.15366934 -0.05436896 -0.08011369  0.03194266
## [3,]  0.15481197 -0.05436896  0.11623840  0.04435091 -0.01957202
## [4,]  0.05869161 -0.08011369  0.04435091  0.10521299 -0.02116436
## [5,] -0.03372388  0.03194266 -0.01957202 -0.02116436  0.01722315
##
## $v[[52]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866284 -0.08265144  0.15481557  0.05869365 -0.03313162
## [2,] -0.08265144  0.15368108 -0.05435701 -0.08014392  0.03253114
## [3,]  0.15481557 -0.05435701  0.11628011  0.04431558 -0.01939025
## [4,]  0.05869365 -0.08014392  0.04431558  0.10537637 -0.02117457
## [5,] -0.03313162  0.03253114 -0.01939025 -0.02117457  0.05971245
##
## $v[[53]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865937 -0.08265895  0.15480492  0.05869059 -0.03324599
## [2,] -0.08265895  0.15366904 -0.05436951 -0.08012380  0.03201771
## [3,]  0.15480492 -0.05436951  0.11624654  0.04435080 -0.02011148
## [4,]  0.05869059 -0.08012380  0.04435080  0.10543254 -0.02131243
## [5,] -0.03324599  0.03201771 -0.02011148 -0.02131243  0.05831350
##
## $v[[54]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865855 -0.08265852  0.15480364  0.05869263 -0.03310813
## [2,] -0.08265852  0.15366923 -0.05437069 -0.08012993  0.03212238
## [3,]  0.15480364 -0.05437069  0.11625078  0.04435397 -0.02047255
## [4,]  0.05869263 -0.08012993  0.04435397  0.10621881 -0.02160856
## [5,] -0.03310813  0.03212238 -0.02047255 -0.02160856  0.08939165
##
## $v[[55]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865610 -0.08265381  0.15481902  0.05869059 -0.03356356
## [2,] -0.08265381  0.15367986 -0.05435629 -0.08013728  0.03226911
## [3,]  0.15481902 -0.05435629  0.11625519  0.04435356 -0.01923657
## [4,]  0.05869059 -0.08013728  0.04435356  0.10551423 -0.02135327
## [5,] -0.03356356  0.03226911 -0.01923657 -0.02135327  0.02814415
##
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## $v[[56]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865283 -0.08265969  0.15481146  0.05869570 -0.03375655
## [2,]  -0.08265969  0.15366855 -0.05436900 -0.08012339  0.03196471
## [3,]   0.15481146 -0.05436900  0.11623941  0.04434713 -0.01959540
## [4,]   0.05869570 -0.08012339  0.04434713  0.10499856 -0.02085292
## [5,]  -0.03375655  0.03196471 -0.01959540 -0.02085292  0.01524215
##
## $v[[57]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866039 -0.08265393  0.15481387  0.05868753 -0.03313162
## [2,]  -0.08265393  0.15367447 -0.05436750 -0.08013534  0.03244056
## [3,]   0.15481387 -0.05436750  0.11626502  0.04432507 -0.01963104
## [4,]   0.05868753 -0.08013534  0.04432507  0.10549891 -0.02147070
## [5,]  -0.03313162  0.03244056 -0.01963104 -0.02147070  0.06867799
##
## $v[[58]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265528  0.15481779  0.05868855 -0.03363197
## [2,]  -0.08265528  0.15367412 -0.05436148 -0.08012942  0.03211635
## [3,]   0.15481779 -0.05436148  0.11624954  0.04434835 -0.01935809
## [4,]   0.05868855 -0.08012942  0.04434835  0.10493218 -0.02112352
## [5,]  -0.03363197  0.03211635 -0.01935809 -0.02112352  0.01882632
##
## $v[[59]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865365 -0.08265991  0.15481144  0.05868855 -0.03370856
## [2,]  -0.08265991  0.15366856 -0.05436877 -0.08012247  0.03195154
## [3,]   0.15481144 -0.05436877  0.11623882  0.04435428 -0.01959744
## [4,]   0.05868855 -0.08012247  0.04435428  0.10503430 -0.02117968
## [5,]  -0.03370856  0.03195154 -0.01959744 -0.02117968  0.01788178
##
## $v[[60]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865344 -0.08265861  0.15481375  0.05869161 -0.03373715
## [2,]  -0.08265861  0.15366955 -0.05436790 -0.08012155  0.03200770
## [3,]   0.15481375 -0.05436790  0.11623868  0.04435560 -0.01948451
## [4,]   0.05869161 -0.08012155  0.04435560  0.10503940 -0.02108778
## [5,]  -0.03373715  0.03200770 -0.01948451 -0.02108778  0.01576803
##
## $v[[61]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865937 -0.08265558  0.15481871  0.05869161 -0.03348697
## [2,]  -0.08265558  0.15367283 -0.05436579 -0.08011737  0.03213800
## [3,]   0.15481871 -0.05436579  0.11624831  0.04434692 -0.01926129
## [4,]   0.05869161 -0.08011737  0.04434692  0.10512109 -0.02112862
## [5,]  -0.03348697  0.03213800 -0.01926129 -0.02112862  0.02781229
##
## $v[[62]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865814 -0.08265656  0.15482045  0.05869365 -0.03344919
## [2,]  -0.08265656  0.15367646 -0.05436140 -0.08014912  0.03219947
## [3,]   0.15482045 -0.05436140  0.11626027  0.04432078 -0.01890338
## [4,]   0.05869365 -0.08014912  0.04432078  0.10530490 -0.02113884
```

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## [5,] -0.03344919  0.03219947 -0.01890338 -0.02113884  0.03974421
##
## $v[[63]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865487 -0.08265546  0.15481603  0.05868753 -0.03358704
## [2,]  -0.08265546  0.15367772 -0.05435982 -0.08012482  0.03222980
## [3,]   0.15481603 -0.05435982  0.11625009  0.04436030 -0.01940823
## [4,]   0.05868753 -0.08012482  0.04436030  0.10614222 -0.02181278
## [5,]  -0.03358704  0.03222980 -0.01940823 -0.02181278  0.03058976
##
## $v[[64]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08265840  0.15481144  0.05868753 -0.03371673
## [2,]  -0.08265840  0.15366961 -0.05436935 -0.08012615  0.03201067
## [3,]   0.15481144 -0.05436935  0.11623900  0.04435601 -0.01959795
## [4,]   0.05868753 -0.08012615  0.04435601  0.10508025 -0.02123074
## [5,]  -0.03371673  0.03201067 -0.01959795 -0.02123074  0.01664621
##
## $v[[65]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866998 -0.08265197  0.15481524  0.05869365 -0.03233105
## [2,]  -0.08265197  0.15367645 -0.05436257 -0.08013279  0.03258863
## [3,]   0.15481524 -0.05436257  0.11627022  0.04433620 -0.01952157
## [4,]   0.05869365 -0.08013279  0.04433620  0.10535595 -0.02116436
## [5,]  -0.03233105  0.03258863 -0.01952157 -0.02116436  0.14548753
##
## $v[[66]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865324 -0.08265822  0.15481383  0.05868855 -0.03376064
## [2,]  -0.08265822  0.15367047 -0.05436749 -0.08012656  0.03201128
## [3,]   0.15481383 -0.05436749  0.11623872  0.04435448 -0.01949431
## [4,]   0.05868855 -0.08012656  0.04435448  0.10490155 -0.02111331
## [5,]  -0.03376064  0.03201128 -0.01949431 -0.02111331  0.01395553
##
## $v[[67]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865385 -0.08265783  0.15481309  0.05868855 -0.03372694
## [2,]  -0.08265783  0.15367057 -0.05436830 -0.08012727  0.03203701
## [3,]   0.15481309 -0.05436830  0.11623818  0.04435560 -0.01951381
## [4,]   0.05868855 -0.08012727  0.04435560  0.10496282 -0.02113884
## [5,]  -0.03372694  0.03203701 -0.01951381 -0.02113884  0.01572719
##
## $v[[68]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865732 -0.08265654  0.15481571  0.05869161 -0.03355437
## [2,]  -0.08265654  0.15367513 -0.05436257 -0.08013227  0.03214872
## [3,]   0.15481571 -0.05436257  0.11624636  0.04434825 -0.01935288
## [4,]   0.05869161 -0.08013227  0.04434825  0.10505982 -0.02109799
## [5,]  -0.03355437  0.03214872 -0.01935288 -0.02109799  0.02504502
##
## $v[[69]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865365 -0.08265787  0.15481109  0.05868651 -0.03375247
## [2,]  -0.08265787  0.15367071 -0.05437040 -0.08013013  0.03201546
```

```
## [3,]   0.15481109 -0.05437040  0.11623930  0.04435918 -0.01958366
## [4,]   0.05868651 -0.08013013  0.04435918  0.10495260 -0.02117457
## [5,]  -0.03375247  0.03201546 -0.01958366 -0.02117457  0.01421081
##
## $v[[70]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865916 -0.08265428  0.15480521  0.05868957 -0.03355437
## [2,]  -0.08265428  0.15367654 -0.05436745 -0.08013003  0.03214341
## [3,]   0.15480521 -0.05436745  0.11627099  0.04434989 -0.01985957
## [4,]   0.05868957 -0.08013003  0.04434989  0.10495771 -0.02110820
## [5,]  -0.03355437  0.03214341 -0.01985957 -0.02110820  0.02198162
##
## $v[[71]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866039 -0.08265381  0.15481346  0.05868855 -0.03308771
## [2,]  -0.08265381  0.15368066 -0.05437084 -0.08013176  0.03262049
## [3,]   0.15481346 -0.05437084  0.11627558  0.04428903 -0.01959193
## [4,]   0.05868855 -0.08013176  0.04428903  0.10536106 -0.02134306
## [5,]  -0.03308771  0.03262049 -0.01959193 -0.02134306  0.08110006
##
## $v[[72]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865753 -0.08265661  0.15481981  0.05868855 -0.03337873
## [2,]  -0.08265661  0.15367312 -0.05436621 -0.08013074  0.03227585
## [3,]   0.15481981 -0.05436621  0.11626349  0.04429525 -0.01903939
## [4,]   0.05868855 -0.08013074  0.04429525  0.10526916 -0.02129711
## [5,]  -0.03337873  0.03227585 -0.01903939 -0.02129711  0.04822471
##
## $v[[73]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865773 -0.08265699  0.15480376  0.05868957 -0.03344919
## [2,]  -0.08265699  0.15367043 -0.05437315 -0.08013033  0.03213984
## [3,]   0.15480376 -0.05437315  0.11625257  0.04434713 -0.02004153
## [4,]   0.05868957 -0.08013033  0.04434713  0.10544785 -0.02135327
## [5,]  -0.03344919  0.03213984 -0.02004153 -0.02135327  0.03655828
##
## $v[[74]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865834 -0.08265565  0.15480936  0.05868957 -0.03347880
## [2,]  -0.08265565  0.15367191 -0.05437170 -0.08012165  0.03217456
## [3,]   0.15480936 -0.05437170  0.11624508  0.04434192 -0.01971620
## [4,]   0.05868957 -0.08012165  0.04434192  0.10516194 -0.02121031
## [5,]  -0.03347880  0.03217456 -0.01971620 -0.02121031  0.03028343
##
## $v[[75]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865344 -0.08265908  0.15480970  0.05868957 -0.03374124
## [2,]  -0.08265908  0.15366897 -0.05437023 -0.08012421  0.03198473
## [3,]   0.15480970 -0.05437023  0.11624310  0.04435428 -0.01965126
## [4,]   0.05868957 -0.08012421  0.04435428  0.10503940 -0.02114905
## [5,]  -0.03374124  0.03198473 -0.01965126 -0.02114905  0.01529831
##
## $v[[76]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
```

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## [1,]   0.28866222 -0.08265322  0.15482224  0.05869161 -0.03316634
## [2,]  -0.08265322  0.15368374 -0.05435994 -0.08013370  0.03245016
## [3,]   0.15482224 -0.05435994  0.11629268  0.04429352 -0.01882220
## [4,]   0.05869161 -0.08013370  0.04429352  0.10519257 -0.02116436
## [5,]  -0.03316634  0.03245016 -0.01882220 -0.02116436  0.05975329
##
## $v[[77]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865651 -0.08265471  0.15481334  0.05869467 -0.03343285
## [2,]  -0.08265471  0.15367790 -0.05436243 -0.08014218  0.03239349
## [3,]   0.15481334 -0.05436243  0.11624851  0.04431935 -0.01942987
## [4,]   0.05869467 -0.08014218  0.04431935  0.10521810 -0.02102141
## [5,]  -0.03343285  0.03239349 -0.01942987 -0.02102141  0.04498262
##
## $v[[78]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865814 -0.08265395  0.15482453  0.05869263 -0.03340732
## [2,]  -0.08265395  0.15367524 -0.05435512 -0.08012543  0.03232834
## [3,]   0.15482453 -0.05435512  0.11627738  0.04433447 -0.01879105
## [4,]   0.05869263 -0.08012543  0.04433447  0.10507514 -0.02105204
## [5,]  -0.03340732  0.03232834 -0.01879105 -0.02105204  0.03926939
##
## $v[[79]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865589 -0.08265785  0.15481393  0.05868855 -0.03367895
## [2,]  -0.08265785  0.15366988 -0.05436868 -0.08012666  0.03201975
## [3,]   0.15481393 -0.05436868  0.11624262  0.04435213 -0.01951391
## [4,]   0.05868855 -0.08012666  0.04435213  0.10496282 -0.02113884
## [5,]  -0.03367895  0.03201975 -0.01951391 -0.02113884  0.01675343
##
## $v[[80]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865406 -0.08265995  0.15481222  0.05869059 -0.03370345
## [2,]  -0.08265995  0.15366885 -0.05436882 -0.08012023  0.03194838
## [3,]   0.15481222 -0.05436882  0.11623812  0.04435285 -0.01955404
## [4,]   0.05869059 -0.08012023  0.04435285  0.10504451 -0.02112352
## [5,]  -0.03370345  0.03194838 -0.01955404 -0.02112352  0.01758054
##
## $v[[81]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865753 -0.08265532  0.15481728  0.05869161 -0.03357990
## [2,]  -0.08265532  0.15367569 -0.05435984 -0.08012952  0.03213790
## [3,]   0.15481728 -0.05435984  0.11624997  0.04435673 -0.01936789
## [4,]   0.05869161 -0.08012952  0.04435673  0.10509046 -0.02111331
## [5,]  -0.03357990  0.03213790 -0.01936789 -0.02111331  0.02250751
##
## $v[[82]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865589 -0.08265803  0.15481105  0.05868957 -0.03364014
## [2,]  -0.08265803  0.15366973 -0.05436935 -0.08012758  0.03202741
## [3,]   0.15481105 -0.05436935  0.11623915  0.04435305 -0.01957927
## [4,]   0.05868957 -0.08012758  0.04435305  0.10517215 -0.02121542
## [5,]  -0.03364014  0.03202741 -0.01957927 -0.02121542  0.02054183
##
```

```
## $v[[83]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865303 -0.08265926  0.15480970  0.05868957 -0.03376268
## [2,]  -0.08265926  0.15366901 -0.05436983 -0.08012451  0.03197881
## [3,]   0.15480970 -0.05436983  0.11624516  0.04435826 -0.01964431
## [4,]   0.05868957 -0.08012451  0.04435826  0.10495771 -0.02110820
## [5,]  -0.03376268  0.03197881 -0.01964431 -0.02110820  0.01411891
##
## $v[[84]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865569 -0.08265352  0.15481620  0.05869365 -0.03362074
## [2,]  -0.08265352  0.15368028 -0.05436200 -0.08012155  0.03227289
## [3,]   0.15481620 -0.05436200  0.11625272  0.04435560 -0.01930428
## [4,]   0.05869365 -0.08012155  0.04435560  0.10496792 -0.02097035
## [5,]  -0.03362074  0.03227289 -0.01930428 -0.02097035  0.02222159
##
## $v[[85]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866161 -0.08265526  0.15481465  0.05868957 -0.03320616
## [2,]  -0.08265526  0.15367263 -0.05436827 -0.08013952  0.03224726
## [3,]   0.15481465 -0.05436827  0.11625644  0.04435530 -0.01959530
## [4,]   0.05868957 -0.08013952  0.04435530  0.10569293 -0.02147581
## [5,]  -0.03320616  0.03224726 -0.01959530 -0.02147581  0.05614359
##
## $v[[86]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866079 -0.08265375  0.15481751  0.05869161 -0.03302746
## [2,]  -0.08265375  0.15368746 -0.05437239 -0.08016373  0.03246231
## [3,]   0.15481751 -0.05437239  0.11628262  0.04434774 -0.01895607
## [4,]   0.05869161 -0.08016373  0.04434774  0.10519257 -0.02115415
## [5,]  -0.03302746  0.03246231 -0.01895607 -0.02115415  0.08396433
##
## $v[[87]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865365 -0.08265793  0.15481424  0.05868957 -0.03374838
## [2,]  -0.08265793  0.15367058 -0.05436715 -0.08012482  0.03201863
## [3,]   0.15481424 -0.05436715  0.11623921  0.04435509 -0.01948502
## [4,]   0.05868957 -0.08012482  0.04435509  0.10500877 -0.02113373
## [5,]  -0.03374838  0.03201863 -0.01948502 -0.02113373  0.01445588
##
## $v[[88]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865508 -0.08265767  0.15481942  0.05868957 -0.03361870
## [2,]  -0.08265767  0.15367105 -0.05436452 -0.08011706  0.03207214
## [3,]   0.15481942 -0.05436452  0.11625539  0.04436602 -0.01915550
## [4,]   0.05868957 -0.08011706  0.04436602  0.10514151 -0.02120010
## [5,]  -0.03361870  0.03207214 -0.01915550 -0.02120010  0.02373286
##
## $v[[89]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865712 -0.08265895  0.15480507  0.05868855 -0.03349718
## [2,]  -0.08265895  0.15366918 -0.05437017 -0.08011512  0.03199678
## [3,]   0.15480507 -0.05437017  0.11624932  0.04434478 -0.01996750
## [4,]   0.05868855 -0.08011512  0.04434478  0.10547338 -0.02139412
```

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## [5,]  -0.03349718   0.03199678  -0.01996750  -0.02139412   0.03246865
##
## $v[[90]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865426  -0.08265368   0.15481622   0.05868957  -0.03371469
## [2,]  -0.08265368   0.15368526  -0.05436128  -0.08013146   0.03218947
## [3,]   0.15481622  -0.05436128   0.11624386   0.04435438  -0.01939036
## [4,]   0.05868957  -0.08013146   0.04435438   0.10496792  -0.02111331
## [5,]  -0.03371469   0.03218947  -0.01939036  -0.02111331   0.01609480
##
## $v[[91]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865446  -0.08265589   0.15481630   0.05868855  -0.03364116
## [2,]  -0.08265589   0.15367575  -0.05436428  -0.08012768   0.03223011
## [3,]   0.15481630  -0.05436428   0.11624372   0.04434172  -0.01932419
## [4,]   0.05868855  -0.08012768   0.04434172   0.10514662  -0.02123584
## [5,]  -0.03364116   0.03223011  -0.01932419  -0.02123584   0.02347758
##
## $v[[92]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866406  -0.08265062   0.15480523   0.05869161  -0.03260472
## [2,]  -0.08265062   0.15368579  -0.05435938  -0.08016577   0.03279193
## [3,]   0.15480523  -0.05435938   0.11626790   0.04429086  -0.02034328
## [4,]   0.05869161  -0.08016577   0.04429086   0.10542743  -0.02128179
## [5,]  -0.03260472   0.03279193  -0.02034328  -0.02128179   0.14605936
##
## $v[[93]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865426  -0.08265734   0.15481346   0.05868446  -0.03367180
## [2,]  -0.08265734   0.15367130  -0.05436778  -0.08011971   0.03209716
## [3,]   0.15481346  -0.05436778   0.11623836   0.04436643  -0.01950278
## [4,]   0.05868446  -0.08011971   0.04436643   0.10648430  -0.02201190
## [5,]  -0.03367180   0.03209716  -0.01950278  -0.02201190   0.02336526
##
## $v[[94]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865977  -0.08265761   0.15480762   0.05868753  -0.03361053
## [2,]  -0.08265761   0.15367041  -0.05436922  -0.08012656   0.03200188
## [3,]   0.15480762  -0.05436922   0.11624414   0.04435724  -0.01966729
## [4,]   0.05868753  -0.08012656   0.04435724   0.10494750  -0.02114394
## [5,]  -0.03361053   0.03200188  -0.01966729  -0.02114394   0.01755502
##
## $v[[95]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865548  -0.08265887   0.15480682   0.05869467  -0.03349310
## [2,]  -0.08265887   0.15366893  -0.05437036  -0.08012329   0.03204171
## [3,]   0.15480682  -0.05437036   0.11624759   0.04433876  -0.02002101
## [4,]   0.05869467  -0.08012329   0.04433876   0.10509556  -0.02093461
## [5,]  -0.03349310   0.03204171  -0.02002101  -0.02093461   0.04041305
##
## $v[[96]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865977  -0.08265150   0.15481706   0.05869365  -0.03309996
## [2,]  -0.08265150   0.15368291  -0.05435484  -0.08013023   0.03269983
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## [3,]   0.15481706 -0.05435484  0.11627609  0.04431200 -0.01919399
## [4,]   0.05869365 -0.08013023  0.04431200  0.10512109 -0.02098567
## [5,]  -0.03309996  0.03269983 -0.01919399 -0.02098567  0.07870040
##
## $v[[97]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866182 -0.08265027  0.15481518  0.05869059 -0.03311630
## [2,]  -0.08265027  0.15368700 -0.05435411 -0.08013227  0.03243290
## [3,]   0.15481518 -0.05435411  0.11626476  0.04434682 -0.01966218
## [4,]   0.05869059 -0.08013227  0.04434682  0.10552444 -0.02136348
## [5,]  -0.03311630  0.03243290 -0.01966218 -0.02136348  0.07634158
##
## $v[[98]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865957 -0.08265168  0.15481591  0.05869365 -0.03320412
## [2,]  -0.08265168  0.15368423 -0.05435669 -0.08012012  0.03258924
## [3,]   0.15481591 -0.05435669  0.11626751  0.04434223 -0.01929743
## [4,]   0.05869365 -0.08012012  0.04434223  0.10508025 -0.02092440
## [5,]  -0.03320412  0.03258924 -0.01929743 -0.02092440  0.06063657
##
## $v[[99]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866508 -0.08265215  0.15480560  0.05869059 -0.03270683
## [2,]  -0.08265215  0.15367942 -0.05437199 -0.08012472  0.03258107
## [3,]   0.15480560 -0.05437199  0.11625090  0.04432732 -0.02019879
## [4,]   0.05869059 -0.08012472  0.04432732  0.10563676 -0.02141965
## [5,]  -0.03270683  0.03258107 -0.02019879 -0.02141965  0.11946909
##
## $v[[100]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865977 -0.08265385  0.15481228  0.05869059 -0.03326743
## [2,]  -0.08265385  0.15367505 -0.05436750 -0.08012758  0.03241840
## [3,]   0.15481228 -0.05436750  0.11624854  0.04436071 -0.01950942
## [4,]   0.05869059 -0.08012758  0.04436071  0.10521810 -0.02120521
## [5,]  -0.03326743  0.03241840 -0.01950942 -0.02120521  0.05466295
##
## $v[[101]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865712 -0.08265456  0.15481926  0.05868957 -0.03361257
## [2,]  -0.08265456  0.15367777 -0.05436317 -0.08011379  0.03217588
## [3,]   0.15481926 -0.05436317  0.11625464  0.04435183 -0.01927722
## [4,]   0.05868957 -0.08011379  0.04435183  0.10509046 -0.02117457
## [5,]  -0.03361257  0.03217588 -0.01927722 -0.02117457  0.02029165
##
## $v[[102]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865548 -0.08265914  0.15481097  0.05868957 -0.03342060
## [2,]  -0.08265914  0.15366981 -0.05436842 -0.08011328  0.03203119
## [3,]   0.15481097 -0.05436842  0.11623960  0.04436602 -0.01973642
## [4,]   0.05868957 -0.08011328  0.04436602  0.10609117 -0.02167493
## [5,]  -0.03342060  0.03203119 -0.01973642 -0.02167493  0.05595979
##
## $v[[103]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28865834 -0.08265640  0.15481603  0.05869059 -0.03354211
## [2,]  -0.08265640  0.15367329 -0.05436671 -0.08012625  0.03208306
## [3,]   0.15481603 -0.05436671  0.11624897  0.04433171 -0.01943764
## [4,]   0.05869059 -0.08012625  0.04433171  0.10502408 -0.02110820
## [5,]  -0.03354211  0.03208306 -0.01943764 -0.02110820  0.02451403
##
## $v[[104]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865446 -0.08266026  0.15481293  0.05869161 -0.03366261
## [2,]  -0.08266026  0.15366916 -0.05436916 -0.08012574  0.03193040
## [3,]   0.15481293 -0.05436916  0.11623836  0.04435530 -0.01951677
## [4,]   0.05869161 -0.08012574  0.04435530  0.10492708 -0.02100098
## [5,]  -0.03366261  0.03193040 -0.01951677 -0.02100098  0.02046014
##
## $v[[105]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865610 -0.08265407  0.15481371  0.05868957 -0.03369324
## [2,]  -0.08265407  0.15367753 -0.05436611 -0.08012727  0.03212769
## [3,]   0.15481371 -0.05436611  0.11624528  0.04434570 -0.01950728
## [4,]   0.05868957 -0.08012727  0.04434570  0.10494750 -0.02110310
## [5,]  -0.03369324  0.03212769 -0.01950728 -0.02110310  0.01571187
##
## $v[[106]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865753 -0.08265589  0.15481767  0.05868753 -0.03354824
## [2,]  -0.08265589  0.15367593 -0.05436139 -0.08011338  0.03212483
## [3,]   0.15481767 -0.05436139  0.11625030  0.04435417 -0.01930540
## [4,]   0.05868753 -0.08011338  0.04435417  0.10514151 -0.02124095
## [5,]  -0.03354824  0.03212483 -0.01930540 -0.02124095  0.02624995
##
## $v[[107]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865957 -0.08265491  0.15481146  0.05868957 -0.03355539
## [2,]  -0.08265491  0.15367587 -0.05436835 -0.08013156  0.03210563
## [3,]   0.15481146 -0.05436835  0.11624425  0.04435479 -0.01962195
## [4,]   0.05868957 -0.08013156  0.04435479  0.10503940 -0.02114905
## [5,]  -0.03355539  0.03210563 -0.01962195 -0.02114905  0.02127194
##
## $v[[108]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865977 -0.08265354  0.15481150  0.05869467 -0.03336035
## [2,]  -0.08265354  0.15367724 -0.05436828 -0.08013238  0.03237623
## [3,]   0.15481150 -0.05436828  0.11624962  0.04433743 -0.01949860
## [4,]   0.05869467 -0.08013238  0.04433743  0.10520789 -0.02104183
## [5,]  -0.03336035  0.03237623 -0.01949860 -0.02104183  0.04166905
##
## $v[[109]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865875 -0.08265301  0.15481975  0.05869672 -0.03335729
## [2,]  -0.08265301  0.15368175 -0.05435342 -0.08012952  0.03238981
## [3,]   0.15481975 -0.05435342  0.11626197  0.04434274 -0.01903551
## [4,]   0.05869672 -0.08012952  0.04434274  0.10509556 -0.02087334
## [5,]  -0.03335729  0.03238981 -0.01903551 -0.02087334  0.04406360
##
```

```
## $v[[110]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866018 -0.08265307  0.15481054  0.05869774 -0.03338894
## [2,]  -0.08265307  0.15367703 -0.05436513 -0.08012104  0.03235836
## [3,]   0.15481054 -0.05436513  0.11625415  0.04435274 -0.01946500
## [4,]   0.05869774 -0.08012104  0.04435274  0.10552954 -0.02102651
## [5,]  -0.03338894  0.03235836 -0.01946500 -0.02102651  0.03796234
##
## $v[[111]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865834 -0.08265170  0.15481559  0.05869570 -0.03333891
## [2,]  -0.08265170  0.15368473 -0.05435706 -0.08012921  0.03254717
## [3,]   0.15481559 -0.05435706  0.11625549  0.04433508 -0.01928651
## [4,]   0.05869570 -0.08012921  0.04433508  0.10513130 -0.02091929
## [5,]  -0.03333891  0.03254717 -0.01928651 -0.02091929  0.04899567
##
## $v[[112]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865446 -0.08265975  0.15481183  0.05868651 -0.03369018
## [2,]  -0.08265975  0.15366909 -0.05436853 -0.08012257  0.03198054
## [3,]   0.15481183 -0.05436853  0.11623832  0.04435734 -0.01956466
## [4,]   0.05868651 -0.08012257  0.04435734  0.10519768 -0.02132774
## [5,]  -0.03369018  0.03198054 -0.01956466 -0.02132774  0.01860678
##
## $v[[113]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865610 -0.08265569  0.15481075  0.05869059 -0.03361972
## [2,]  -0.08265569  0.15367318 -0.05437033 -0.08012492  0.03213238
## [3,]   0.15481075 -0.05437033  0.11624091  0.04435019 -0.01957947
## [4,]   0.05869059 -0.08012492  0.04435019  0.10503430 -0.02111841
## [5,]  -0.03361972  0.03213238 -0.01957947 -0.02111841  0.02171613
##
## $v[[114]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865630 -0.08265750  0.15480864  0.05869059 -0.03356458
## [2,]  -0.08265750  0.15366999 -0.05437049 -0.08012594  0.03208102
## [3,]   0.15480864 -0.05437049  0.11624269  0.04434652 -0.01976093
## [4,]   0.05869059 -0.08012594  0.04434652  0.10543254 -0.02131753
## [5,]  -0.03356458  0.03208102 -0.01976093 -0.02131753  0.02749573
##
## $v[[115]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866549 -0.08265109  0.15481109  0.05869876 -0.03267824
## [2,]  -0.08265109  0.15368098 -0.05435983 -0.08013054  0.03273056
## [3,]   0.15481109 -0.05435983  0.11626455  0.04432568 -0.01954026
## [4,]   0.05869876 -0.08013054  0.04432568  0.10533042 -0.02085802
## [5,]  -0.03267824  0.03273056 -0.01954026 -0.02085802  0.11816204
##
## $v[[116]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866284 -0.08265426  0.15481456  0.05870182 -0.03311630
## [2,]  -0.08265426  0.15367998 -0.05436415 -0.08011777  0.03231364
## [3,]   0.15481456 -0.05436415  0.11624323  0.04434692 -0.01933399
## [4,]   0.05870182 -0.08011777  0.04434692  0.10511088 -0.02057211
```

```
## [5,]  -0.03311630  0.03231364 -0.01933399 -0.02057211  0.06177003
##
## $v[[117]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865508 -0.08265883  0.15481252  0.05868753 -0.03370652
## [2,]  -0.08265883  0.15366906 -0.05436851 -0.08012778  0.03198401
## [3,]   0.15481252 -0.05436851  0.11623849  0.04435387 -0.01953944
## [4,]   0.05868753 -0.08012778  0.04435387  0.10500877 -0.02117457
## [5,]  -0.03370652  0.03198401 -0.01953944 -0.02117457  0.01566592
##
## $v[[118]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08265963  0.15481052  0.05868957 -0.03373919
## [2,]  -0.08265963  0.15366861 -0.05436897 -0.08012411  0.03196175
## [3,]   0.15481052 -0.05436897  0.11623997  0.04435765 -0.01960357
## [4,]   0.05868957 -0.08012411  0.04435765  0.10515173 -0.02120521
## [5,]  -0.03373919  0.03196175 -0.01960357 -0.02120521  0.01478775
##
## $v[[119]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08265914  0.15481548  0.05869161 -0.03371877
## [2,]  -0.08265914  0.15366936 -0.05436793 -0.08012625  0.03198504
## [3,]   0.15481548 -0.05436793  0.11624131  0.04435836 -0.01942446
## [4,]   0.05869161 -0.08012625  0.04435836  0.10495771 -0.02104693
## [5,]  -0.03371877  0.03198504 -0.01942446 -0.02104693  0.01606416
##
## $v[[120]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866447 -0.08265172  0.15481197  0.05869570 -0.03291412
## [2,]  -0.08265172  0.15368008 -0.05436485 -0.08013595  0.03253849
## [3,]   0.15481197 -0.05436485  0.11626518  0.04433957 -0.01981259
## [4,]   0.05869570 -0.08013595  0.04433957  0.10579504 -0.02125116
## [5,]  -0.03291412  0.03253849 -0.01981259 -0.02125116  0.08997369
##
## $v[[121]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866672 -0.08265283  0.15480578  0.05869570 -0.03283141
## [2,]  -0.08265283  0.15367723 -0.05436192 -0.08011308  0.03245241
## [3,]   0.15480578 -0.05436192  0.11627546  0.04434937 -0.02001958
## [4,]   0.05869570 -0.08011308  0.04434937  0.10530490 -0.02103672
## [5,]  -0.03283141  0.03245241 -0.02001958 -0.02103672  0.09031577
##
## $v[[122]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866141 -0.08265422  0.15481369  0.05869876 -0.03314183
## [2,]  -0.08265422  0.15367410 -0.05436535 -0.08012186  0.03234427
## [3,]   0.15481369 -0.05436535  0.11626849  0.04433048 -0.01930591
## [4,]   0.05869876 -0.08012186  0.04433048  0.10512620 -0.02075591
## [5,]  -0.03314183  0.03234427 -0.01930591 -0.02075591  0.06293922
##
## $v[[123]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865528 -0.08265646  0.15481144  0.05869263 -0.03370039
## [2,]  -0.08265646  0.15367258 -0.05436881 -0.08012390  0.03207398
```

```
## [3,]   0.15481144 -0.05436881  0.11624072  0.04435142 -0.01955425
## [4,]   0.05869263 -0.08012390  0.04435142  0.10492197 -0.02100609
## [5,]  -0.03370039  0.03207398 -0.01955425 -0.02100609  0.01592120
##
## $v[[124]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866120 -0.08265328  0.15481056  0.05869570 -0.03301623
## [2,]  -0.08265328  0.15367566 -0.05436467 -0.08012308  0.03245945
## [3,]   0.15481056 -0.05436467  0.11625635  0.04432538 -0.01975112
## [4,]   0.05869570 -0.08012308  0.04432538  0.10552954 -0.02111841
## [5,]  -0.03301623  0.03245945 -0.01975112 -0.02111841  0.08317295
##
## $v[[125]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865753 -0.08265797  0.15481222  0.05869365 -0.03337261
## [2,]  -0.08265797  0.15366943 -0.05436910 -0.08012676  0.03212442
## [3,]   0.15481222 -0.05436910  0.11624294  0.04432599 -0.01956068
## [4,]   0.05869365 -0.08012676  0.04432599  0.10547849 -0.02126648
## [5,]  -0.03337261  0.03212442 -0.01956068 -0.02126648  0.05342227
##
## $v[[126]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865855 -0.08265518  0.15481344  0.05869059 -0.03347472
## [2,]  -0.08265518  0.15367335 -0.05436717 -0.08013728  0.03225696
## [3,]   0.15481344 -0.05436717  0.11624083  0.04435029 -0.01938505
## [4,]   0.05869059 -0.08013728  0.04435029  0.10538148 -0.02129201
## [5,]  -0.03347472  0.03225696 -0.01938505 -0.02129201  0.03531761
##
## $v[[127]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865589 -0.08265554  0.15482073  0.05869570 -0.03357990
## [2,]  -0.08265554  0.15367472 -0.05435478 -0.08012472  0.03223644
## [3,]   0.15482073 -0.05435478  0.11628140  0.04434294 -0.01895280
## [4,]   0.05869570 -0.08012472  0.04434294  0.10499856 -0.02082228
## [5,]  -0.03357990  0.03223644 -0.01895280 -0.02082228  0.02648992
##
## $v[[128]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866549 -0.08265424  0.15480609  0.05868855 -0.03275584
## [2,]  -0.08265424  0.15367503 -0.05437205 -0.08013891  0.03229474
## [3,]   0.15480609 -0.05437205  0.11625006  0.04435162 -0.02015661
## [4,]   0.05868855 -0.08013891  0.04435162  0.10592268 -0.02161366
## [5,]  -0.03275584  0.03229474 -0.02015661 -0.02161366  0.11060566
##
## $v[[129]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866427 -0.08265501  0.15481393  0.05868957 -0.03307750
## [2,]  -0.08265501  0.15367778 -0.05436871 -0.08011022  0.03229862
## [3,]   0.15481393 -0.05436871  0.11625686  0.04432905 -0.01930172
## [4,]   0.05868957 -0.08011022  0.04432905  0.10517215 -0.02121542
## [5,]  -0.03307750  0.03229862 -0.01930172 -0.02121542  0.05862494
##
## $v[[130]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28865610 -0.08265742  0.15481187  0.05869059 -0.03368303
## [2,]  -0.08265742  0.15367005 -0.05436897 -0.08012339  0.03202782
## [3,]   0.15481187 -0.05436897  0.11623865  0.04435591 -0.01955027
## [4,]   0.05869059 -0.08012339  0.04435591  0.10495260 -0.02107757
## [5,]  -0.03368303  0.03202782 -0.01955027 -0.02107757  0.01618159
##
## $v[[131]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865691 -0.08265428  0.15481538  0.05869774 -0.03354824
## [2,]  -0.08265428  0.15367646 -0.05436135 -0.08011961  0.03226176
## [3,]   0.15481538 -0.05436135  0.11626273  0.04435315 -0.01924781
## [4,]   0.05869774 -0.08011961  0.04435315  0.10495771 -0.02069975
## [5,]  -0.03354824  0.03226176 -0.01924781 -0.02069975  0.02694432
##
## $v[[132]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865998 -0.08265399  0.15481548  0.05869263 -0.03334095
## [2,]  -0.08265399  0.15367418 -0.05436735 -0.08013064  0.03232027
## [3,]   0.15481548 -0.05436735  0.11624165  0.04436112 -0.01940445
## [4,]   0.05869263 -0.08013064  0.04436112  0.10555507 -0.02130732
## [5,]  -0.03334095  0.03232027 -0.01940445 -0.02130732  0.04385937
##
## $v[[133]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865324 -0.08265730  0.15481258  0.05869263 -0.03374021
## [2,]  -0.08265730  0.15367304 -0.05436854 -0.08011859  0.03207724
## [3,]   0.15481258 -0.05436854  0.11624022  0.04437000 -0.01955609
## [4,]   0.05869263 -0.08011859  0.04437000  0.10513641 -0.02109799
## [5,]  -0.03374021  0.03207724 -0.01955609 -0.02109799  0.01601821
##
## $v[[134]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865875 -0.08265326  0.15481324  0.05868957 -0.03356152
## [2,]  -0.08265326  0.15368327 -0.05436044 -0.08014106  0.03228913
## [3,]   0.15481324 -0.05436044  0.11624919  0.04435121 -0.01942671
## [4,]   0.05868957 -0.08014106  0.04435121  0.10539680 -0.02132774
## [5,]  -0.03356152  0.03228913 -0.01942671 -0.02132774  0.02283427
##
## $v[[135]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265705  0.15480591  0.05869059 -0.03362278
## [2,]  -0.08265705  0.15367032 -0.05437285 -0.08012502  0.03205580
## [3,]   0.15480591 -0.05437285  0.11624814  0.04435264 -0.01977369
## [4,]   0.05869059 -0.08012502  0.04435264  0.10494239 -0.02107246
## [5,]  -0.03362278  0.03205580 -0.01977369 -0.02107246  0.01973003
##
## $v[[136]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865896 -0.08265538  0.15481324  0.05869161 -0.03340937
## [2,]  -0.08265538  0.15367246 -0.05436842 -0.08013054  0.03220090
## [3,]   0.15481324 -0.05436842  0.11623964  0.04435438 -0.01947879
## [4,]   0.05869161 -0.08013054  0.04435438  0.10504961 -0.02109288
## [5,]  -0.03340937  0.03220090 -0.01947879 -0.02109288  0.03603240
##
```

```
## $v[[137]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866549 -0.08264976  0.15481834  0.05869263 -0.03271193
## [2,]  -0.08264976  0.15368301 -0.05434927 -0.08012931  0.03282941
## [3,]   0.15481834 -0.05434927  0.11632396  0.04427912 -0.01882924
## [4,]   0.05869263 -0.08012931  0.04427912  0.10539169 -0.02122563
## [5,]  -0.03271193  0.03282941 -0.01882924 -0.02122563  0.10642413
##
## $v[[138]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865671 -0.08265705  0.15480797  0.05868957 -0.03365035
## [2,]  -0.08265705  0.15367049 -0.05437150 -0.08012482  0.03204518
## [3,]   0.15480797 -0.05437150  0.11624290  0.04435499 -0.01968802
## [4,]   0.05868957 -0.08012482  0.04435499  0.10500877 -0.02113373
## [5,]  -0.03365035  0.03204518 -0.01968802 -0.02113373  0.01767245
##
## $v[[139]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865283 -0.08266028  0.15481246  0.05868651 -0.03376983
## [2,]  -0.08266028  0.15366860 -0.05436856 -0.08012319  0.03193745
## [3,]   0.15481246 -0.05436856  0.11623804  0.04435826 -0.01954312
## [4,]   0.05868651 -0.08012319  0.04435826  0.10504451 -0.02122053
## [5,]  -0.03376983  0.03193745 -0.01954312 -0.02122053  0.01387894
##
## $v[[140]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866794 -0.08265761  0.15479935  0.05869059 -0.03256183
## [2,]  -0.08265761  0.15367027 -0.05437050 -0.08012329  0.03208909
## [3,]   0.15479935 -0.05437050  0.11625188  0.04435244 -0.02058130
## [4,]   0.05869059 -0.08012329  0.04435244  0.10624944 -0.02172599
## [5,]  -0.03256183  0.03208909 -0.02058130 -0.02172599  0.12580010
##
## $v[[141]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865446 -0.08265936  0.15480860  0.05869059 -0.03372081
## [2,]  -0.08265936  0.15366864 -0.05436960 -0.08012482  0.03197166
## [3,]   0.15480860 -0.05436960  0.11624406  0.04435387 -0.01967433
## [4,]   0.05869059 -0.08012482  0.04435387  0.10497303 -0.02108778
## [5,]  -0.03372081  0.03197166 -0.01967433 -0.02108778  0.01540043
##
## $v[[142]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865937 -0.08265697  0.15482002  0.05869365 -0.03340937
## [2,]  -0.08265697  0.15367723 -0.05436119 -0.08012360  0.03220346
## [3,]   0.15482002 -0.05436119  0.11625282  0.04435601 -0.01903919
## [4,]   0.05869365 -0.08012360  0.04435601  0.10504961 -0.02101119
## [5,]  -0.03340937  0.03220346 -0.01903919 -0.02101119  0.03563416
##
## $v[[143]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865732 -0.08265366  0.15481070  0.05869570 -0.03354722
## [2,]  -0.08265366  0.15367657 -0.05436959 -0.08011655  0.03226850
## [3,]   0.15481070 -0.05436959  0.11624749  0.04434937 -0.01954516
## [4,]   0.05869570 -0.08011655  0.04434937  0.10498834 -0.02084781
```

```
## [5,] -0.03354722  0.03226850 -0.01954516 -0.02084781  0.02589766
##
## $v[[144]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866529 -0.08265391  0.15481718  0.05869059 -0.03292331
## [2,] -0.08265391  0.15367321 -0.05436859 -0.08012002  0.03233876
## [3,]  0.15481718 -0.05436859  0.11628389  0.04432150 -0.01912936
## [4,]  0.05869059 -0.08012002  0.04432150  0.10511599 -0.02115415
## [5,] -0.03292331  0.03233876 -0.01912936 -0.02115415  0.07737803
##
## $v[[145]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866570 -0.08265757  0.15480388  0.05868957 -0.03272521
## [2,] -0.08265757  0.15367033 -0.05437030 -0.08011839  0.03223572
## [3,]  0.15480388 -0.05437030  0.11624460  0.04435499 -0.02025965
## [4,]  0.05868957 -0.08011839  0.04435499  0.10633624 -0.02179747
## [5,] -0.03272521  0.03223572 -0.02025965 -0.02179747  0.11155531
##
## $v[[146]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866263 -0.08265977  0.15481477  0.05868957 -0.03328989
## [2,] -0.08265977  0.15367160 -0.05436677 -0.08011298  0.03200587
## [3,]  0.15481477 -0.05436677  0.11624512  0.04436612 -0.01948083
## [4,]  0.05868957 -0.08011298  0.04436612  0.10521299 -0.02123584
## [5,] -0.03328989  0.03200587 -0.01948083 -0.02123584  0.04156183
##
## $v[[147]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865569 -0.08265957  0.15480895  0.05868957 -0.03367997
## [2,] -0.08265957  0.15366861 -0.05436903 -0.08012462  0.03196328
## [3,]  0.15480895 -0.05436903  0.11624167  0.04435417 -0.01965687
## [4,]  0.05868957 -0.08012462  0.04435417  0.10495771 -0.02110820
## [5,] -0.03367997  0.03196328 -0.01965687 -0.02110820  0.01673811
##
## $v[[148]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865406 -0.08265959  0.15481154  0.05869059 -0.03368712
## [2,] -0.08265959  0.15366877 -0.05436868 -0.08011982  0.03196328
## [3,]  0.15481154 -0.05436868  0.11623879  0.04435897 -0.01960612
## [4,]  0.05869059 -0.08011982  0.04435897  0.10522831 -0.02121542
## [5,] -0.03368712  0.03196328 -0.01960612 -0.02121542  0.01954112
##
## $v[[149]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865426 -0.08265942  0.15481150  0.05868855 -0.03372694
## [2,] -0.08265942  0.15366885 -0.05436870 -0.08012482  0.03197186
## [3,]  0.15481150 -0.05436870  0.11623877  0.04435714 -0.01957273
## [4,]  0.05868855 -0.08012482  0.04435714  0.10494239 -0.02112862
## [5,] -0.03372694  0.03197186 -0.01957273 -0.02112862  0.01513493
##
## $v[[150]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866243 -0.08265538  0.15481624  0.05869263 -0.03317859
## [2,] -0.08265538  0.15367233 -0.05436715 -0.08011788  0.03221377
```

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## [3,]   0.15481624 -0.05436715  0.11625155  0.04435121 -0.01922422
## [4,]   0.05869263 -0.08011788  0.04435121  0.10503430 -0.02104693
## [5,]  -0.03317859  0.03221377 -0.01922422 -0.02104693  0.05249304
##
## $v[[151]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866182 -0.08265589  0.15481497  0.05868855 -0.03343898
## [2,]  -0.08265589  0.15367211 -0.05436761 -0.08012349  0.03212176
## [3,]   0.15481497 -0.05436761  0.11623966  0.04435693 -0.01945765
## [4,]   0.05868855 -0.08012349  0.04435693  0.10504451 -0.02117968
## [5,]  -0.03343898  0.03212176 -0.01945765 -0.02117968  0.02790929
##
## $v[[152]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865896 -0.08265691  0.15482141  0.05869059 -0.03349412
## [2,]  -0.08265691  0.15367030 -0.05436548 -0.08012778  0.03207929
## [3,]   0.15482141 -0.05436548  0.11625654  0.04434468 -0.01906319
## [4,]   0.05869059 -0.08012778  0.04434468  0.10504451 -0.02112352
## [5,]  -0.03349412  0.03207929 -0.01906319 -0.02112352  0.02831775
##
## $v[[153]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865446 -0.08265548  0.15481599  0.05868957 -0.03373000
## [2,]  -0.08265548  0.15367633 -0.05436483 -0.08012615  0.03209042
## [3,]   0.15481599 -0.05436483  0.11624865  0.04435571 -0.01945785
## [4,]   0.05868957 -0.08012615  0.04435571  0.10518236 -0.02122053
## [5,]  -0.03373000  0.03209042 -0.01945785 -0.02122053  0.01492560
##
## $v[[154]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865732 -0.08265634  0.15482345  0.05869059 -0.03355028
## [2,]  -0.08265634  0.15367151 -0.05436342 -0.08012380  0.03209828
## [3,]   0.15482345 -0.05436342  0.11626452  0.04435846 -0.01896046
## [4,]   0.05869059 -0.08012380  0.04435846  0.10538148 -0.02129201
## [5,]  -0.03355028  0.03209828 -0.01896046 -0.02129201  0.02620911
##
## $v[[155]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865773 -0.08265893  0.15480564  0.05868957 -0.03357888
## [2,]  -0.08265893  0.15366871 -0.05436987 -0.08012462  0.03198657
## [3,]   0.15480564 -0.05436987  0.11624660  0.04435805 -0.01980106
## [4,]   0.05868957 -0.08012462  0.04435805  0.10502919 -0.02114394
## [5,]  -0.03357888  0.03198657 -0.01980106 -0.02114394  0.02216543
##
## $v[[156]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865916 -0.08265773  0.15482049  0.05869365 -0.03343081
## [2,]  -0.08265773  0.15367223 -0.05436611 -0.08011961  0.03205519
## [3,]   0.15482049 -0.05436611  0.11625079  0.04436102 -0.01911680
## [4,]   0.05869365 -0.08011961  0.04436102  0.10497813 -0.02099588
## [5,]  -0.03343081  0.03205519 -0.01911680 -0.02099588  0.03346425
##
## $v[[157]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]  0.28865753 -0.08265763  0.15482038  0.05869059 -0.03361155
## [2,] -0.08265763  0.15366976 -0.05436626 -0.08012400  0.03202568
## [3,]  0.15482038 -0.05436626  0.11625400  0.04434989 -0.01925710
## [4,]  0.05869059 -0.08012400  0.04434989  0.10498324 -0.02109288
## [5,] -0.03361155  0.03202568 -0.01925710 -0.02109288  0.01954112
##
## $v[[158]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865834 -0.08265344  0.15481671  0.05869467 -0.03344102
## [2,] -0.08265344  0.15367740 -0.05436127 -0.08012850  0.03234059
## [3,]  0.15481671 -0.05436127  0.11624909  0.04434427 -0.01923126
## [4,]  0.05869467 -0.08012850  0.04434427  0.10504451 -0.02096014
## [5,] -0.03344102  0.03234059 -0.01923126 -0.02096014  0.03505722
##
## $v[[159]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866079 -0.08265256  0.15481171  0.05869059 -0.03344817
## [2,] -0.08265256  0.15367844 -0.05436787 -0.08011931  0.03223348
## [3,]  0.15481171 -0.05436787  0.11629333  0.04435346 -0.01952423
## [4,]  0.05869059 -0.08011931  0.04435346  0.10508535 -0.02113884
## [5,] -0.03344817  0.03223348 -0.01952423 -0.02113884  0.02767954
##
## $v[[160]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865344 -0.08265591  0.15481859  0.05869161 -0.03371571
## [2,] -0.08265591  0.15367860 -0.05435777 -0.08010961  0.03217885
## [3,]  0.15481859 -0.05435777  0.11626582  0.04432640 -0.01916785
## [4,]  0.05869161 -0.08010961  0.04432640  0.10529468 -0.02120521
## [5,] -0.03371571  0.03217885 -0.01916785 -0.02120521  0.01819322
##
## $v[[161]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865896 -0.08265493  0.15481797  0.05869059 -0.03326437
## [2,] -0.08265493  0.15367425 -0.05436519 -0.08014780  0.03238328
## [3,]  0.15481797 -0.05436519  0.11626069  0.04433876 -0.01941394
## [4,]  0.05869059 -0.08014780  0.04433876  0.10625965 -0.02172599
## [5,] -0.03326437  0.03238328 -0.01941394 -0.02172599  0.06695227
##
## $v[[162]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866059 -0.08265019  0.15481226  0.05869570 -0.03311834
## [2,] -0.08265019  0.15368684 -0.05435692 -0.08014340  0.03274997
## [3,]  0.15481226 -0.05435692  0.11626145  0.04432140 -0.01948849
## [4,]  0.05869570 -0.08014340  0.04432140  0.10541722 -0.02109288
## [5,] -0.03311834  0.03274997 -0.01948849 -0.02109288  0.07157289
##
## $v[[163]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865385 -0.08265930  0.15481497  0.05868855 -0.03373511
## [2,] -0.08265930  0.15366877 -0.05436797 -0.08012696  0.03197687
## [3,]  0.15481497 -0.05436797  0.11624032  0.04435356 -0.01945234
## [4,]  0.05868855 -0.08012696  0.04435356  0.10497303 -0.02114394
## [5,] -0.03373511  0.03197687 -0.01945234 -0.02114394  0.01511451
##
```

```
## $v[[164]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865691 -0.08265902  0.15480707  0.05869161 -0.03349821
## [2,] -0.08265902  0.15366906 -0.05437033 -0.08012339  0.03198177
## [3,]  0.15480707 -0.05437033  0.11624580  0.04434264 -0.01981821
## [4,]  0.05869161 -0.08012339  0.04434264  0.10521299 -0.02116436
## [5,] -0.03349821  0.03198177 -0.01981821 -0.02116436  0.03359700
##
## $v[[165]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865528 -0.08265415  0.15481518  0.05869263 -0.03362993
## [2,] -0.08265415  0.15368458 -0.05436095 -0.08015923  0.03237684
## [3,]  0.15481518 -0.05436095  0.11624431  0.04435948 -0.01929447
## [4,]  0.05869263 -0.08015923  0.04435948  0.10554486 -0.02130222
## [5,] -0.03362993  0.03237684 -0.01929447 -0.02130222  0.02501438
##
## $v[[166]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865691 -0.08265938  0.15480895  0.05868957 -0.03357377
## [2,] -0.08265938  0.15366907 -0.05436854 -0.08012043  0.03199545
## [3,]  0.15480895 -0.05436854  0.11624250  0.04435693 -0.01968128
## [4,]  0.05868957 -0.08012043  0.04435693  0.10513130 -0.02119500
## [5,] -0.03357377  0.03199545 -0.01968128 -0.02119500  0.02482547
##
## $v[[167]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28867162 -0.08265791  0.15480974  0.05868957 -0.03273848
## [2,] -0.08265791  0.15367139 -0.05436735 -0.08011369  0.03205733
## [3,]  0.15480974 -0.05436735  0.11624555  0.04436163 -0.01949084
## [4,]  0.05868957 -0.08011369  0.04436163  0.10531511 -0.02128690
## [5,] -0.03273848  0.03205733 -0.01949084 -0.02128690  0.08114090
##
## $v[[168]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865344 -0.08265844  0.15481252  0.05868855 -0.03373613
## [2,] -0.08265844  0.15366996 -0.05436877 -0.08012890  0.03201628
## [3,]  0.15481252 -0.05436877  0.11623799  0.04435428 -0.01954148
## [4,]  0.05868855 -0.08012890  0.04435428  0.10499345 -0.02115415
## [5,] -0.03373613  0.03201628 -0.01954148 -0.02115415  0.01568124
##
## $v[[169]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865589 -0.08265824  0.15481087  0.05868957 -0.03370039
## [2,] -0.08265824  0.15367101 -0.05436763 -0.08012370  0.03200148
## [3,]  0.15481087 -0.05436763  0.11624143  0.04435520 -0.01957600
## [4,]  0.05868957 -0.08012370  0.04435520  0.10493729 -0.02109799
## [5,] -0.03370039  0.03200148 -0.01957600 -0.02109799  0.01524726
##
## $v[[170]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866120 -0.08265481  0.15482090  0.05869365 -0.03331849
## [2,] -0.08265481  0.15367637 -0.05435896 -0.08012237  0.03223531
## [3,]  0.15482090 -0.05435896  0.11627841  0.04432589 -0.01887857
## [4,]  0.05869365 -0.08012237  0.04432589  0.10508025 -0.02102651
```

```
## [5,]  -0.03331849   0.03223531  -0.01887857  -0.02102651   0.04094915
##
## $v[[171]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865998  -0.08265983   0.15481109   0.05868855  -0.03344306
## [2,]  -0.08265983   0.15367045  -0.05436908  -0.08011451   0.03195859
## [3,]   0.15481109  -0.05436908   0.11624015   0.04435520  -0.01953822
## [4,]   0.05868855  -0.08011451   0.04435520   0.10514662  -0.02122563
## [5,]  -0.03344306   0.03195859  -0.01953822  -0.02122563   0.03243291
##
## $v[[172]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865487  -0.08266034   0.15481252   0.05868548  -0.03362789
## [2,]  -0.08266034   0.15366854  -0.05436864  -0.08012370   0.03192887
## [3,]   0.15481252  -0.05436864   0.11623800   0.04435662  -0.01953934
## [4,]   0.05868548  -0.08012370   0.04435662   0.10509046  -0.02131753
## [5,]  -0.03362789   0.03192887  -0.01953934  -0.02131753   0.02360522
##
## $v[[173]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865937  -0.08265477   0.15481344   0.05868957  -0.03357683
## [2,]  -0.08265477   0.15367360  -0.05436726  -0.08012360   0.03210042
## [3,]   0.15481344  -0.05436726   0.11624089   0.04435673  -0.01950380
## [4,]   0.05868957  -0.08012360   0.04435673   0.10518236  -0.02122053
## [5,]  -0.03357683   0.03210042  -0.01950380  -0.02122053   0.02042950
##
## $v[[174]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865528  -0.08265616   0.15481203   0.05868855  -0.03368201
## [2,]  -0.08265616   0.15367319  -0.05436952  -0.08012788   0.03208306
## [3,]   0.15481203  -0.05436952   0.11623883   0.04435254  -0.01954393
## [4,]   0.05868855  -0.08012788   0.04435254   0.10499345  -0.02114905
## [5,]  -0.03368201   0.03208306  -0.01954393  -0.02114905   0.01742227
##
## $v[[175]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865630  -0.08265716   0.15480772   0.05868957  -0.03355539
## [2,]  -0.08265716   0.15367029  -0.05437147  -0.08012676   0.03209276
## [3,]   0.15480772  -0.05437147   0.11624396   0.04436541  -0.01984108
## [4,]   0.05868957  -0.08012676   0.04436541   0.10591757  -0.02158813
## [5,]  -0.03355539   0.03209276  -0.01984108  -0.02158813   0.03020684
##
## $v[[176]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865651  -0.08265891   0.15480591   0.05869059  -0.03362074
## [2,]  -0.08265891   0.15366878  -0.05437015  -0.08012462   0.03199280
## [3,]   0.15480591  -0.05437015   0.11624760   0.04435285  -0.01980198
## [4,]   0.05869059  -0.08012462   0.04435285   0.10501387  -0.02110820
## [5,]  -0.03362074   0.03199280  -0.01980198  -0.02110820   0.02051630
##
## $v[[177]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865548  -0.08265816   0.15480925   0.05869263  -0.03361564
## [2,]  -0.08265816   0.15366990  -0.05437034  -0.08011624   0.03201363
```

```
## [3,]   0.15480925 -0.05437034  0.11624191  0.04434458 -0.01972641
## [4,]   0.05869263 -0.08011624  0.04434458  0.10568782 -0.02137370
## [5,]  -0.03361564  0.03201363 -0.01972641 -0.02137370  0.02556580
##
## $v[[178]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865610 -0.08265828  0.15480870  0.05868957 -0.03366669
## [2,]  -0.08265828  0.15366979 -0.05437050 -0.08012543  0.03201649
## [3,]   0.15480870 -0.05437050  0.11624338  0.04435264 -0.01969128
## [4,]   0.05868957 -0.08012543  0.04435264  0.10507004 -0.02116436
## [5,]  -0.03366669  0.03201649 -0.01969128 -0.02116436  0.01757033
##
## $v[[179]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865855 -0.08265985  0.15480780  0.05868753 -0.03360747
## [2,]  -0.08265985  0.15366912 -0.05436936 -0.08012502  0.03195624
## [3,]   0.15480780 -0.05436936  0.11624244  0.04435857 -0.01968526
## [4,]   0.05868753 -0.08012502  0.04435857  0.10496792 -0.02117457
## [5,]  -0.03360747  0.03195624 -0.01968526 -0.02117457  0.01853020
##
## $v[[180]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865446 -0.08265710  0.15481802  0.05869161 -0.03370243
## [2,]  -0.08265710  0.15367176 -0.05436224 -0.08012462  0.03207316
## [3,]   0.15481802 -0.05436224  0.11625181  0.04434917 -0.01929141
## [4,]   0.05869161 -0.08012462  0.04434917  0.10498834 -0.02106225
## [5,]  -0.03370243  0.03207316 -0.01929141 -0.02106225  0.01689128
##
## $v[[181]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865732 -0.08265532  0.15481726  0.05869467 -0.03357173
## [2,]  -0.08265532  0.15367349 -0.05436418 -0.08012308  0.03218701
## [3,]   0.15481726 -0.05436418  0.11624246  0.04435683 -0.01930019
## [4,]   0.05869467 -0.08012308  0.04435683  0.10507514 -0.02100098
## [5,]  -0.03357173  0.03218701 -0.01930019 -0.02100098  0.02457019
##
## $v[[182]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865732 -0.08265895  0.15480537  0.05868855 -0.03364014
## [2,]  -0.08265895  0.15366907 -0.05436995 -0.08012298  0.03198258
## [3,]   0.15480537 -0.05436995  0.11624879  0.04435908 -0.01977246
## [4,]   0.05868855 -0.08012298  0.04435908  0.10498324 -0.02114905
## [5,]  -0.03364014  0.03198258 -0.01977246 -0.02114905  0.01790731
##
## $v[[183]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865875 -0.08265252  0.15480844  0.05869161 -0.03358296
## [2,]  -0.08265252  0.15367982 -0.05436839 -0.08012656  0.03222939
## [3,]   0.15480844 -0.05436839  0.11624889  0.04434774 -0.01961674
## [4,]   0.05869161 -0.08012656  0.04434774  0.10498834 -0.02106225
## [5,]  -0.03358296  0.03222939 -0.01961674 -0.02106225  0.02025591
##
## $v[[184]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28865937 -0.08266010  0.15481011  0.05868957 -0.03350331
## [2,]  -0.08266010  0.15366938 -0.05436858 -0.08012625  0.03195757
## [3,]   0.15481011 -0.05436858  0.11623896  0.04435673 -0.01964166
## [4,]   0.05868957 -0.08012625  0.04435673  0.10507004 -0.02116436
## [5,]  -0.03350331  0.03195757 -0.01964166 -0.02116436  0.02716897
##
## $v[[185]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866182 -0.08265536  0.15480727  0.05868957 -0.03327968
## [2,]  -0.08265536  0.15367154 -0.05436905 -0.08013401  0.03220968
## [3,]   0.15480727 -0.05436905  0.11625163  0.04432487 -0.01983159
## [4,]   0.05868957 -0.08013401  0.04432487  0.10609117 -0.02167493
## [5,]  -0.03327968  0.03220968 -0.01983159 -0.02167493  0.04713721
##
## $v[[186]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28867550 -0.08265789  0.15481305  0.05868957 -0.03240049
## [2,]  -0.08265789  0.15367082 -0.05436791 -0.08012360  0.03209328
## [3,]   0.15481305 -0.05436791  0.11624922  0.04436408 -0.01961889
## [4,]   0.05868957 -0.08012360  0.04436408  0.10523342 -0.02124605
## [5,]  -0.03240049  0.03209328 -0.01961889 -0.02124605  0.10714402
##
## $v[[187]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865487 -0.08265622  0.15481334  0.05868855 -0.03368201
## [2,]  -0.08265622  0.15367433 -0.05436742 -0.08013207  0.03212136
## [3,]   0.15481334 -0.05436742  0.11623886  0.04435662 -0.01949604
## [4,]   0.05868855 -0.08013207  0.04435662  0.10500366 -0.02115926
## [5,]  -0.03368201  0.03212136 -0.01949604 -0.02115926  0.01781030
##
## $v[[188]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865855 -0.08265973  0.15480497  0.05869059 -0.03356662
## [2,]  -0.08265973  0.15366879 -0.05436912 -0.08012799  0.03195593
## [3,]   0.15480497 -0.05436912  0.11624767  0.04435050 -0.01979952
## [4,]   0.05869059 -0.08012799  0.04435050  0.10506493 -0.02113373
## [5,]  -0.03356662  0.03195593 -0.01979952 -0.02113373  0.02241050
##
## $v[[189]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865446 -0.08265836  0.15480840  0.05869059 -0.03370345
## [2,]  -0.08265836  0.15366973 -0.05437101 -0.08012686  0.03201822
## [3,]   0.15480840 -0.05437101  0.11624465  0.04435448 -0.01969956
## [4,]   0.05869059 -0.08012686  0.04435448  0.10500366 -0.02110310
## [5,]  -0.03370345  0.03201822 -0.01969956 -0.02110310  0.01681470
##
## $v[[190]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865467 -0.08265681  0.15481877  0.05869263 -0.03371775
## [2,]  -0.08265681  0.15367239 -0.05436305 -0.08012196  0.03205141
## [3,]   0.15481877 -0.05436305  0.11625711  0.04435979 -0.01930274
## [4,]   0.05869263 -0.08012196  0.04435979  0.10493218 -0.02099588
## [5,]  -0.03371775  0.03205141 -0.01930274 -0.02099588  0.01540553
##
```

```
## $v[[191]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865937 -0.08265930  0.15481038  0.05869059 -0.03344409
## [2,] -0.08265930  0.15367029 -0.05436898 -0.08011859  0.03195532
## [3,]  0.15481038 -0.05436898  0.11623915  0.04435571 -0.01963420
## [4,]  0.05869059 -0.08011859  0.04435571  0.10517725 -0.02118989
## [5,] -0.03344409  0.03195532 -0.01963420 -0.02118989  0.03101864
##
## $v[[192]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865630 -0.08266067  0.15481124  0.05868957 -0.03364423
## [2,] -0.08266067  0.15366990 -0.05436738 -0.08012901  0.03191917
## [3,]  0.15481124 -0.05436738  0.11624140  0.04436245 -0.01961113
## [4,]  0.05868957 -0.08012901  0.04436245  0.10510067 -0.02117968
## [5,] -0.03364423  0.03191917 -0.01961113 -0.02117968  0.01893865
##
## $v[[193]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865855 -0.08265554  0.15481569  0.05869365 -0.03350637
## [2,] -0.08265554  0.15367308 -0.05436719 -0.08012829  0.03218936
## [3,]  0.15481569 -0.05436719  0.11624176  0.04436490 -0.01943396
## [4,]  0.05869365 -0.08012829  0.04436490  0.10519257 -0.02108267
## [5,] -0.03350637  0.03218936 -0.01943396 -0.02108267  0.02772549
##
## $v[[194]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865998 -0.08265799  0.15481806  0.05869365 -0.03335627
## [2,] -0.08265799  0.15367029 -0.05436733 -0.08011931  0.03205233
## [3,]  0.15481806 -0.05436733  0.11624949  0.04437664 -0.01919675
## [4,]  0.05869365 -0.08011931  0.04437664  0.10512109 -0.02102651
## [5,] -0.03335627  0.03205233 -0.01919675 -0.02102651  0.04090320
##
## $v[[195]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865732 -0.08265630  0.15481589  0.05869161 -0.03357377
## [2,] -0.08265630  0.15367162 -0.05436645 -0.08012472  0.03211247
## [3,]  0.15481589 -0.05436645  0.11624179  0.04435611 -0.01940322
## [4,]  0.05869161 -0.08012472  0.04435611  0.10497813 -0.02104693
## [5,] -0.03357377  0.03211247 -0.01940322 -0.02104693  0.02278321
##
## $v[[196]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865937 -0.08265814  0.15481271  0.05868957 -0.03348085
## [2,] -0.08265814  0.15367247 -0.05436695 -0.08011430  0.03203579
## [3,]  0.15481271 -0.05436695  0.11624384  0.04437010 -0.01953822
## [4,]  0.05868957 -0.08011430  0.04437010  0.10500877 -0.02113373
## [5,] -0.03348085  0.03203579 -0.01953822 -0.02113373  0.02789398
##
## $v[[197]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865365 -0.08265661  0.15481753  0.05869672 -0.03372183
## [2,] -0.08265661  0.15367617 -0.05435987 -0.08011696  0.03212636
## [3,]  0.15481753 -0.05435987  0.11625655  0.04437419 -0.01929212
## [4,]  0.05869672 -0.08011696  0.04437419  0.10494239 -0.02079676
```

```
## [5,]  -0.03372183   0.03212636  -0.01929212  -0.02079676   0.01675343
##
## $v[[198]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865651  -0.08266049   0.15481375   0.05868957  -0.03365750
## [2,]  -0.08266049   0.15366960  -0.05436858  -0.08012635   0.03192387
## [3,]   0.15481375  -0.05436858   0.11623950   0.04435142  -0.01949880
## [4,]   0.05868957  -0.08012635   0.04435142   0.10493729  -0.02109799
## [5,]  -0.03365750   0.03192387  -0.01949880  -0.02109799   0.01739163
##
## $v[[199]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865589  -0.08265467   0.15481503   0.05869263  -0.03357990
## [2,]  -0.08265467   0.15367884  -0.05436372  -0.08013258   0.03226370
## [3,]   0.15481503  -0.05436372   0.11624065   0.04435080  -0.01940659
## [4,]   0.05869263  -0.08013258   0.04435080   0.10504451  -0.02103672
## [5,]  -0.03357990   0.03226370  -0.01940659  -0.02103672   0.02628569
##
## $v[[200]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865365  -0.08265765   0.15481397   0.05868957  -0.03375247
## [2,]  -0.08265765   0.15367116  -0.05436720  -0.08012462   0.03202312
## [3,]   0.15481397  -0.05436720   0.11623880   0.04435673  -0.01949298
## [4,]   0.05868957  -0.08012462   0.04435673   0.10492708  -0.02109288
## [5,]  -0.03375247   0.03202312  -0.01949298  -0.02109288   0.01409848
##
## $v[[201]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865467  -0.08266065   0.15481113   0.05868957  -0.03366261
## [2,]  -0.08266065   0.15366896  -0.05436866  -0.08012145   0.03190743
## [3,]   0.15481113  -0.05436866   0.11623944   0.04434815  -0.01960245
## [4,]   0.05868957  -0.08012145   0.04434815   0.10525384  -0.02125627
## [5,]  -0.03366261   0.03190743  -0.01960245  -0.02125627   0.02036823
##
## $v[[202]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865998  -0.08265834   0.15480207   0.05868957  -0.03347472
## [2,]  -0.08265834   0.15366942  -0.05437060  -0.08012676   0.03202711
## [3,]   0.15480207  -0.05437060   0.11625206   0.04435509  -0.01996168
## [4,]   0.05868957  -0.08012676   0.04435509   0.10502919  -0.02114394
## [5,]  -0.03347472   0.03202711  -0.01996168  -0.02114394   0.02684221
##
## $v[[203]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865610  -0.08265820   0.15480962   0.05868957  -0.03361870
## [2,]  -0.08265820   0.15367053  -0.05436981  -0.08012155   0.03202956
## [3,]   0.15480962  -0.05436981   0.11624188   0.04435509  -0.01966964
## [4,]   0.05868957  -0.08012155   0.04435509   0.10499856  -0.02112862
## [5,]  -0.03361870   0.03202956  -0.01966964  -0.02112862   0.02141489
##
## $v[[204]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865896  -0.08265078   0.15481220   0.05869365  -0.03336750
## [2,]  -0.08265078   0.15368620  -0.05435606  -0.08014769   0.03257770
```

```
## [3,]   0.15481220 -0.05435606  0.11627291  0.04429658 -0.01936166
## [4,]   0.05869365 -0.08014769  0.04429658  0.10514151 -0.02103672
## [5,]  -0.03336750  0.03257770 -0.01936166 -0.02103672  0.04272592
##
## $v[[205]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865548 -0.08265632  0.15482484  0.05869672 -0.03358602
## [2,]  -0.08265632  0.15367449 -0.05435461 -0.08012339  0.03218742
## [3,]   0.15482484 -0.05435461  0.11627956  0.04437031 -0.01877870
## [4,]   0.05869672 -0.08012339  0.04437031  0.10497303 -0.02077633
## [5,]  -0.03358602  0.03218742 -0.01877870 -0.02077633  0.02637760
##
## $v[[206]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866284 -0.08265068  0.15482122  0.05868957 -0.03332053
## [2,]  -0.08265068  0.15368454 -0.05435338 -0.08012809  0.03240217
## [3,]   0.15482122 -0.05435338  0.11625562  0.04434937 -0.01910597
## [4,]   0.05868957 -0.08012809  0.04434937  0.10511088 -0.02118479
## [5,]  -0.03332053  0.03240217 -0.01910597 -0.02118479  0.03521039
##
## $v[[207]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866467 -0.08265732  0.15481783  0.05868855 -0.03331951
## [2,]  -0.08265732  0.15381346 -0.05423280 -0.08005140  0.03204681
## [3,]   0.15481783 -0.05423280  0.11642640  0.04439206 -0.01932807
## [4,]   0.05868855 -0.08005140  0.04439206  0.10518747 -0.02125116
## [5,]  -0.03331951  0.03204681 -0.01932807 -0.02125116  0.03149857
##
## $v[[208]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08265997  0.15480721  0.05869161 -0.03372796
## [2,]  -0.08265997  0.15366850 -0.05436868 -0.08012625  0.03195185
## [3,]   0.15480721 -0.05436868  0.11625045  0.04435183 -0.01973203
## [4,]   0.05869161 -0.08012625  0.04435183  0.10500877 -0.02107246
## [5,]  -0.03372796  0.03195185 -0.01973203 -0.02107246  0.01545659
##
## $v[[209]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865712 -0.08265671  0.15481947  0.05869263 -0.03343898
## [2,]  -0.08265671  0.15367078 -0.05436594 -0.08011777  0.03216414
## [3,]   0.15481947 -0.05436594  0.11625434  0.04432477 -0.01898487
## [4,]   0.05869263 -0.08011777  0.04432477  0.10520789 -0.02113373
## [5,]  -0.03343898  0.03216414 -0.01898487 -0.02113373  0.04228683
##
## $v[[210]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866141 -0.08265701  0.15480437  0.05868855 -0.03315919
## [2,]  -0.08265701  0.15367030 -0.05436975 -0.08012584  0.03220703
## [3,]   0.15480437 -0.05436975  0.11625234  0.04434427 -0.02001835
## [4,]   0.05868855 -0.08012584  0.04434427  0.10623923 -0.02177704
## [5,]  -0.03315919  0.03220703 -0.02001835 -0.02177704  0.06591582
##
## $v[[211]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28865385 -0.08265650  0.15481428  0.05869059 -0.03373102
## [2,]  -0.08265650  0.15367510 -0.05436416 -0.08012554  0.03209093
## [3,]   0.15481428 -0.05436416  0.11624664  0.04434754 -0.01946030
## [4,]   0.05869059 -0.08012554  0.04434754  0.10495260 -0.02107246
## [5,]  -0.03373102  0.03209093 -0.01946030 -0.02107246  0.01539022
##
## $v[[212]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865916 -0.08265440  0.15481324  0.05869263 -0.03353190
## [2,]  -0.08265440  0.15367441 -0.05436965 -0.08012023  0.03214515
## [3,]   0.15481324 -0.05436965  0.11625214  0.04435234 -0.01942446
## [4,]   0.05869263 -0.08012023  0.04435234  0.10497303 -0.02101630
## [5,]  -0.03353190  0.03214515 -0.01942446 -0.02101630  0.02363586
##
## $v[[213]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865773 -0.08265953  0.15480537  0.05869059 -0.03349004
## [2,]  -0.08265953  0.15366869 -0.05436942 -0.08012982  0.03196553
## [3,]   0.15480537 -0.05436942  0.11624764  0.04435897 -0.01988887
## [4,]   0.05869059 -0.08012982  0.04435897  0.10529979 -0.02124605
## [5,]  -0.03349004  0.03196553 -0.01988887 -0.02124605  0.03358679
##
## $v[[214]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865691 -0.08265951  0.15480825  0.05868957 -0.03358704
## [2,]  -0.08265951  0.15366868 -0.05436905 -0.08012625  0.03197156
## [3,]   0.15480825 -0.05436905  0.11624245  0.04434754 -0.01970670
## [4,]   0.05868957 -0.08012625  0.04434754  0.10512109 -0.02118989
## [5,]  -0.03358704  0.03197156 -0.01970670 -0.02118989  0.02305381
##
## $v[[215]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865773 -0.08265599  0.15481906  0.05869365 -0.03353190
## [2,]  -0.08265599  0.15367392 -0.05436235 -0.08012737  0.03212319
## [3,]   0.15481906 -0.05436235  0.11624944  0.04435520 -0.01921595
## [4,]   0.05869365 -0.08012737  0.04435520  0.10494750 -0.02096014
## [5,]  -0.03353190  0.03212319 -0.01921595 -0.02096014  0.02646439
##
## $v[[216]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865548 -0.08265565  0.15481395  0.05869774 -0.03364525
## [2,]  -0.08265565  0.15367561 -0.05436494 -0.08012421  0.03217864
## [3,]   0.15481395 -0.05436494  0.11624291  0.04435999 -0.01941966
## [4,]   0.05869774 -0.08012421  0.04435999  0.10501898 -0.02081207
## [5,]  -0.03364525  0.03217864 -0.01941966 -0.02081207  0.02105750
##
## $v[[217]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865814 -0.08265938  0.15480676  0.05868855 -0.03355845
## [2,]  -0.08265938  0.15366896 -0.05436897 -0.08012911  0.03198504
## [3,]   0.15480676 -0.05436897  0.11624437  0.04434989 -0.01972794
## [4,]   0.05868855 -0.08012911  0.04434989  0.10558571 -0.02144517
## [5,]  -0.03355845  0.03198504 -0.01972794 -0.02144517  0.02580066
##
```

```
## $v[[218]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865732 -0.08265789  0.15481387  0.05869161 -0.03342877
## [2,] -0.08265789  0.15367027 -0.05436843 -0.08013003  0.03211911
## [3,]  0.15481387 -0.05436843  0.11623940  0.04434948 -0.01943702
## [4,]  0.05869161 -0.08013003  0.04434948  0.10523342 -0.02116436
## [5,] -0.03342877  0.03211911 -0.01943702 -0.02116436  0.04057133
##
## $v[[219]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866100 -0.08265589  0.15480713  0.05868855 -0.03339303
## [2,] -0.08265589  0.15367404 -0.05436756 -0.08015637  0.03221755
## [3,]  0.15480713 -0.05436756  0.11624701  0.04434029 -0.01970487
## [4,]  0.05868855 -0.08015637  0.04434029  0.10588183 -0.02159324
## [5,] -0.03339303  0.03221755 -0.01970487 -0.02159324  0.03551162
##
## $v[[220]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866079 -0.08265477  0.15481262  0.05869672 -0.03337363
## [2,] -0.08265477  0.15367451 -0.05436730 -0.08011583  0.03228321
## [3,]  0.15481262 -0.05436730  0.11627685  0.04431711 -0.01932878
## [4,]  0.05869672 -0.08011583  0.04431711  0.10507514 -0.02086313
## [5,] -0.03337363  0.03228321 -0.01932878 -0.02086313  0.03789596
##
## $v[[221]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866079 -0.08265085  0.15481166  0.05869774 -0.03320718
## [2,] -0.08265085  0.15368731 -0.05435083 -0.08014177  0.03269789
## [3,]  0.15481166 -0.05435083  0.11628004  0.04429076 -0.01935584
## [4,]  0.05869774 -0.08014177  0.04429076  0.10524363 -0.02088355
## [5,] -0.03320718  0.03269789 -0.01935584 -0.02088355  0.05808885
##
## $v[[222]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865426 -0.08265838  0.15481434  0.05869059 -0.03372490
## [2,] -0.08265838  0.15366982 -0.05436721 -0.08012380  0.03200913
## [3,]  0.15481434 -0.05436721  0.11624052  0.04435632 -0.01946510
## [4,]  0.05869059 -0.08012380  0.04435632  0.10493218 -0.02106225
## [5,] -0.03372490  0.03200913 -0.01946510 -0.02106225  0.01530853
##
## $v[[223]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865487 -0.08266183  0.15481444  0.05868753 -0.03368303
## [2,] -0.08266183  0.15367520 -0.05436951 -0.08012268  0.03184136
## [3,]  0.15481444 -0.05436951  0.11624106  0.04435070 -0.01947256
## [4,]  0.05868753 -0.08012268  0.04435070  0.10496792 -0.02117457
## [5,] -0.03368303  0.03184136 -0.01947256 -0.02117457  0.01779498
##
## $v[[224]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865814 -0.08265732  0.15481497  0.05868855 -0.03360951
## [2,] -0.08265732  0.15368529 -0.05434094 -0.08008061  0.03202414
## [3,]  0.15481497 -0.05434094  0.11629109  0.04443107 -0.01944131
## [4,]  0.05868855 -0.08008061  0.04443107  0.10511599 -0.02120521
```

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## [5,] -0.03360951  0.03202414 -0.01944131 -0.02120521  0.01917351
##
## $v[[225]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865896 -0.08265789  0.15481838  0.05869059 -0.03358194
## [2,]  -0.08265789  0.15367270 -0.05436319 -0.08012135  0.03203150
## [3,]   0.15481838 -0.05436319  0.11625323  0.04436479 -0.01934553
## [4,]   0.05869059 -0.08012135  0.04436479  0.10495260 -0.02108267
## [5,]  -0.03358194  0.03203150 -0.01934553 -0.02108267  0.01984235
##
## $v[[226]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865508 -0.08265658  0.15481281  0.05869161 -0.03357377
## [2,]  -0.08265658  0.15367434 -0.05436770 -0.08014698  0.03225237
## [3,]   0.15481281 -0.05436770  0.11623852  0.04434192 -0.01951248
## [4,]   0.05869161 -0.08014698  0.04434192  0.10530490 -0.02122053
## [5,]  -0.03357377  0.03225237 -0.01951248 -0.02122053  0.03170790
##
## $v[[227]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865446 -0.08265844  0.15481354  0.05868957 -0.03373000
## [2,]  -0.08265844  0.15367096 -0.05436827 -0.08012502  0.03201220
## [3,]   0.15481354 -0.05436827  0.11623869  0.04435632 -0.01950983
## [4,]   0.05868957 -0.08012502  0.04435632  0.10495771 -0.02110820
## [5,]  -0.03373000  0.03201220 -0.01950983 -0.02110820  0.01485412
##
## $v[[228]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865651 -0.08265626  0.15481791  0.05869672 -0.03354007
## [2,]  -0.08265626  0.15367379 -0.05436301 -0.08012441  0.03215505
## [3,]   0.15481791 -0.05436301  0.11624634  0.04435234 -0.01921094
## [4,]   0.05869672 -0.08012441  0.04435234  0.10511599 -0.02084781
## [5,]  -0.03354007  0.03215505 -0.01921094 -0.02084781  0.02932356
##
## $v[[229]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866406 -0.08265446  0.15481763  0.05869161 -0.03297641
## [2,]  -0.08265446  0.15367340 -0.05436952 -0.08012554  0.03230148
## [3,]   0.15481763 -0.05436952  0.11625576  0.04434243 -0.01899600
## [4,]   0.05869161 -0.08012554  0.04434243  0.10512109 -0.02113884
## [5,]  -0.03297641  0.03230148 -0.01899600 -0.02113884  0.07478435
##
## $v[[230]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866059 -0.08265403  0.15481514  0.05869365 -0.03326335
## [2,]  -0.08265403  0.15367540 -0.05436568 -0.08011808  0.03232252
## [3,]   0.15481514 -0.05436568  0.11625254  0.04432946 -0.01925638
## [4,]   0.05869365 -0.08011808  0.04432946  0.10520278 -0.02108778
## [5,]  -0.03326335  0.03232252 -0.01925638 -0.02108778  0.04961856
##
## $v[[231]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865855 -0.08265671  0.15481742  0.05869161 -0.03343081
## [2,]  -0.08265671  0.15367119 -0.05436590 -0.08011696  0.03213514
```

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## [3,]   0.15481742 -0.05436590  0.11624678  0.04434427 -0.01927507
## [4,]   0.05869161 -0.08011696  0.04434427  0.10507004 -0.02111331
## [5,]  -0.03343081  0.03213514 -0.01927507 -0.02111331  0.03658891
##
## $v[[232]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265438  0.15481800  0.05869161 -0.03360032
## [2,]  -0.08265438  0.15367737 -0.05435884 -0.08012696  0.03218732
## [3,]   0.15481800 -0.05435884  0.11625505  0.04434682 -0.01930693
## [4,]   0.05869161 -0.08012696  0.04434682  0.10509046 -0.02111331
## [5,]  -0.03360032  0.03218732 -0.01930693 -0.02111331  0.02197652
##
## $v[[233]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865548 -0.08266098  0.15480974  0.05869059 -0.03352782
## [2,]  -0.08266098  0.15366890 -0.05436763 -0.08011839  0.03185780
## [3,]   0.15480974 -0.05436763  0.11624104  0.04437388 -0.01976664
## [4,]   0.05869059 -0.08011839  0.04437388  0.10622902 -0.02172088
## [5,]  -0.03352782  0.03185780 -0.01976664 -0.02172088  0.03849333
##
## $v[[234]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865630 -0.08265834  0.15481397  0.05868957 -0.03365035
## [2,]  -0.08265834  0.15366966 -0.05436787 -0.08012584  0.03201301
## [3,]   0.15481397 -0.05436787  0.11624149  0.04435091 -0.01950626
## [4,]   0.05868957 -0.08012584  0.04435091  0.10508025 -0.02116947
## [5,]  -0.03365035  0.03201301 -0.01950626 -0.02116947  0.01875485
##
## $v[[235]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865691 -0.08265840  0.15481732  0.05869467 -0.03360236
## [2,]  -0.08265840  0.15367162 -0.05436606 -0.08012053  0.03200372
## [3,]   0.15481732 -0.05436606  0.11624455  0.04436898 -0.01934257
## [4,]   0.05869467 -0.08012053  0.04436898  0.10504451 -0.02098567
## [5,]  -0.03360236  0.03200372 -0.01934257 -0.02098567  0.02172123
##
## $v[[236]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865446 -0.08265569  0.15481742  0.05869467 -0.03366976
## [2,]  -0.08265569  0.15367601 -0.05436163 -0.08012768  0.03218998
## [3,]   0.15481742 -0.05436163  0.11624631  0.04436285 -0.01930101
## [4,]   0.05869467 -0.08012768  0.04436285  0.10502408 -0.02097545
## [5,]  -0.03366976  0.03218998 -0.01930101 -0.02097545  0.02047545
##
## $v[[237]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865344 -0.08265544  0.15481367  0.05869263 -0.03372285
## [2,]  -0.08265544  0.15368034 -0.05436572 -0.08011063  0.03218559
## [3,]   0.15481367 -0.05436572  0.11624004  0.04435611 -0.01945949
## [4,]   0.05869263 -0.08011063  0.04435611  0.10510577 -0.02106736
## [5,]  -0.03372285  0.03218559 -0.01945949 -0.02106736  0.01734058
##
## $v[[238]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28865344 -0.08265991  0.15481168  0.05868855 -0.03375247
## [2,]  -0.08265991  0.15366849 -0.05436872 -0.08012594  0.03195318
## [3,]   0.15481168 -0.05436872  0.11623865  0.04435846 -0.01957008
## [4,]   0.05868855 -0.08012594  0.04435846  0.10498324 -0.02114394
## [5,]  -0.03375247  0.03195318 -0.01957008 -0.02114394  0.01440482
##
## $v[[239]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865528 -0.08266018  0.15480864  0.05868957 -0.03369120
## [2,]  -0.08266018  0.15366886 -0.05436828 -0.08012411  0.03193980
## [3,]   0.15480864 -0.05436828  0.11624268  0.04435509 -0.01967403
## [4,]   0.05868957 -0.08012411  0.04435509  0.10492708 -0.02109288
## [5,]  -0.03369120  0.03193980 -0.01967403 -0.02109288  0.01641645
##
## $v[[240]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865263 -0.08265924  0.15481228  0.05868855 -0.03378004
## [2,]  -0.08265924  0.15366901 -0.05436899 -0.08012615  0.03197717
## [3,]   0.15481228 -0.05436899  0.11623814  0.04435601 -0.01954822
## [4,]   0.05868855 -0.08012615  0.04435601  0.10496282 -0.02113884
## [5,]  -0.03378004  0.03197717 -0.01954822 -0.02113884  0.01337859
##
## $v[[241]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08266106  0.15481138  0.05869059 -0.03373307
## [2,]  -0.08266106  0.15366901 -0.05436811 -0.08012554  0.03191070
## [3,]   0.15481138 -0.05436811  0.11623887  0.04435213 -0.01957447
## [4,]   0.05869059 -0.08012554  0.04435213  0.10497303 -0.02109288
## [5,]  -0.03373307  0.03191070 -0.01957447 -0.02109288  0.01506345
##
## $v[[242]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865528 -0.08266014  0.15480582  0.05869059 -0.03363810
## [2,]  -0.08266014  0.15366868 -0.05436823 -0.08012288  0.03193010
## [3,]   0.15480582 -0.05436823  0.11625108  0.04435550 -0.01987264
## [4,]   0.05869059 -0.08012288  0.04435550  0.10514662 -0.02117457
## [5,]  -0.03363810  0.03193010 -0.01987264 -0.02117457  0.02195099
##
## $v[[243]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865426 -0.08265777  0.15481185  0.05868753 -0.03373919
## [2,]  -0.08265777  0.15367109 -0.05436879 -0.08013187  0.03201843
## [3,]   0.15481185 -0.05436879  0.11623911  0.04435468 -0.01955027
## [4,]   0.05868753 -0.08013187  0.04435468  0.10507004 -0.02120521
## [5,]  -0.03373919  0.03201843 -0.01955027 -0.02120521  0.01443035
##
## $v[[244]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865691 -0.08265532  0.15481573  0.05869876 -0.03339099
## [2,]  -0.08265532  0.15367553 -0.05435861 -0.08013125  0.03238409
## [3,]   0.15481573 -0.05435861  0.11626235  0.04429760 -0.01910373
## [4,]   0.05869876 -0.08013125  0.04429760  0.10552444 -0.02100098
## [5,]  -0.03339099  0.03238409 -0.01910373 -0.02100098  0.05079797
##
```

```
## $v[[245]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866161 -0.08265191  0.15481681  0.05869365 -0.03334299
## [2,]  -0.08265191  0.15367928 -0.05436046 -0.08013718  0.03236224
## [3,]   0.15481681 -0.05436046  0.11626802  0.04434233 -0.01926353
## [4,]   0.05869365 -0.08013718  0.04434233  0.10509046 -0.02103162
## [5,]  -0.03334299  0.03236224 -0.01926353 -0.02103162  0.03815125
##
## $v[[246]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865937 -0.08265360  0.15482437  0.05869365 -0.03351556
## [2,]  -0.08265360  0.15368090 -0.05435885 -0.08012686  0.03225523
## [3,]   0.15482437 -0.05435885  0.11626200  0.04436091 -0.01905430
## [4,]   0.05869365 -0.08012686  0.04436091  0.10493729 -0.02095503
## [5,]  -0.03351556  0.03225523 -0.01905430 -0.02095503  0.02467741
##
## $v[[247]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865671 -0.08265902  0.15480650  0.05869059 -0.03349616
## [2,]  -0.08265902  0.15366907 -0.05436992 -0.08012176  0.03201955
## [3,]   0.15480650 -0.05436992  0.11624588  0.04435703 -0.01990296
## [4,]   0.05869059 -0.08012176  0.04435703  0.10555507 -0.02137880
## [5,]  -0.03349616  0.03201955 -0.01990296 -0.02137880  0.03650722
##
## $v[[248]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865426 -0.08265767  0.15481381  0.05869161 -0.03372490
## [2,]  -0.08265767  0.15367202 -0.05436619 -0.08012492  0.03203824
## [3,]   0.15481381 -0.05436619  0.11623998  0.04435468 -0.01948787
## [4,]   0.05869161 -0.08012492  0.04435468  0.10492708 -0.02102141
## [5,]  -0.03372490  0.03203824 -0.01948787 -0.02102141  0.01529831
##
## $v[[249]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865467 -0.08265748  0.15480981  0.05869161 -0.03369324
## [2,]  -0.08265748  0.15367191 -0.05437031 -0.08012839  0.03205713
## [3,]   0.15480981 -0.05437031  0.11624203  0.04435009 -0.01965085
## [4,]   0.05869161 -0.08012839  0.04435009  0.10492708 -0.02103162
## [5,]  -0.03369324  0.03205713 -0.01965085 -0.02103162  0.01714146
##
## $v[[250]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865630 -0.08265456  0.15482206  0.05868957 -0.03360440
## [2,]  -0.08265456  0.15367717 -0.05435231 -0.08012360  0.03217364
## [3,]   0.15482206 -0.05435231  0.11627973  0.04434662 -0.01917623
## [4,]   0.05868957 -0.08012360  0.04434662  0.10516194 -0.02121031
## [5,]  -0.03360440  0.03217364 -0.01917623 -0.02121031  0.02236455
##
## $v[[251]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865528 -0.08265916  0.15480840  0.05868957 -0.03370447
## [2,]  -0.08265916  0.15366887 -0.05436942 -0.08012421  0.03197207
## [3,]   0.15480840 -0.05436942  0.11624335  0.04435734 -0.01966606
## [4,]   0.05868957 -0.08012421  0.04435734  0.10496792 -0.02111331
```

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## [5,]  -0.03370447   0.03197207  -0.01966606  -0.02111331   0.01562508
##
## $v[[252]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865732  -0.08265773   0.15481702   0.05868957  -0.03364219
## [2,]  -0.08265773   0.15367401  -0.05436689  -0.08013309   0.03207152
## [3,]   0.15481702  -0.05436689   0.11624237   0.04435795  -0.01940925
## [4,]   0.05868957  -0.08013309   0.04435795   0.10514151  -0.02120010
## [5,]  -0.03364219   0.03207152  -0.01940925  -0.02120010   0.01860168
##
## $v[[253]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866304  -0.08265456   0.15480580   0.05868855  -0.03351250
## [2,]  -0.08265456   0.15367263  -0.05437183  -0.08012329   0.03208980
## [3,]   0.15480580  -0.05437183   0.11626059   0.04435070  -0.01975847
## [4,]   0.05868855  -0.08012329   0.04435070   0.10499345  -0.02114394
## [5,]  -0.03351250   0.03208980  -0.01975847  -0.02114394   0.02083285
##
## $v[[254]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866263  -0.08265164   0.15480938   0.05869672  -0.03289880
## [2,]  -0.08265164   0.15367918  -0.05436107  -0.08012942   0.03255319
## [3,]   0.15480938  -0.05436107   0.11627135   0.04435601  -0.02007931
## [4,]   0.05869672  -0.08012942   0.04435601   0.10588183  -0.02126648
## [5,]  -0.03289880   0.03255319  -0.02007931  -0.02126648   0.10468310
##
## $v[[255]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866529  -0.08265242   0.15480405   0.05869059  -0.03310201
## [2,]  -0.08265242   0.15368239  -0.05435716  -0.08014575   0.03238072
## [3,]   0.15480405  -0.05435716   0.11627825   0.04433242  -0.02000549
## [4,]   0.05869059  -0.08014575   0.04433242   0.10545296  -0.02132774
## [5,]  -0.03310201   0.03238072  -0.02000549  -0.02132774   0.05680733
##
## $v[[256]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865406  -0.08265914   0.15481136   0.05868957  -0.03373715
## [2,]  -0.08265914   0.15366889  -0.05436901  -0.08012564   0.03197687
## [3,]   0.15481136  -0.05436901   0.11623904   0.04435346  -0.01957569
## [4,]   0.05868957  -0.08012564   0.04435346   0.10491687  -0.02108778
## [5,]  -0.03373715   0.03197687  -0.01957569  -0.02108778   0.01464479
##
## $v[[257]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866039  -0.08265395   0.15481048   0.05869672  -0.03327458
## [2,]  -0.08265395   0.15367450  -0.05436803  -0.08012390   0.03232150
## [3,]   0.15481048  -0.05436803   0.11625046   0.04433702  -0.01953301
## [4,]   0.05869672  -0.08012390   0.04433702   0.10505472  -0.02085292
## [5,]  -0.03327458   0.03232150  -0.01953301  -0.02085292   0.04874549
##
## $v[[258]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865937  -0.08265873   0.15481275   0.05868855  -0.03354824
## [2,]  -0.08265873   0.15366990  -0.05436802  -0.08013054   0.03198269
```

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## [3,]   0.15481275 -0.05436802  0.11624046  0.04435019 -0.01955844
## [4,]   0.05868855 -0.08013054  0.04435019  0.10506493 -0.02118479
## [5,]  -0.03354824  0.03198269 -0.01955844 -0.02118479  0.02308445
##
## $v[[259]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865324 -0.08265548  0.15481497  0.05869365 -0.03374634
## [2,]  -0.08265548  0.15368165 -0.05436156 -0.08011971  0.03215873
## [3,]   0.15481497 -0.05436156  0.11624257  0.04435285 -0.01942293
## [4,]   0.05869365 -0.08011971  0.04435285  0.10501898 -0.02099588
## [5,]  -0.03374634  0.03215873 -0.01942293 -0.02099588  0.01540553
##
## $v[[260]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866079 -0.08265632  0.15479784  0.05869059 -0.03291105
## [2,]  -0.08265632  0.15367061 -0.05437427 -0.08012850  0.03237358
## [3,]   0.15479784 -0.05437427  0.11626441  0.04432803 -0.02093298
## [4,]   0.05869059 -0.08012850  0.04432803  0.10607585 -0.02163919
## [5,]  -0.03291105  0.03237358 -0.02093298 -0.02163919  0.11995923
##
## $v[[261]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865630 -0.08265215  0.15481262  0.05869365 -0.03353497
## [2,]  -0.08265215  0.15368694 -0.05436583 -0.08013085  0.03243413
## [3,]   0.15481262 -0.05436583  0.11624009  0.04434253 -0.01952341
## [4,]   0.05869365 -0.08013085  0.04434253  0.10517215 -0.02107246
## [5,]  -0.03353497  0.03243413 -0.01952341 -0.02107246  0.03020684
##
## $v[[262]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865589 -0.08265946  0.15481902  0.05869161 -0.03361257
## [2,]  -0.08265946  0.15367042 -0.05436809 -0.08012084  0.03197452
## [3,]   0.15481902 -0.05436809  0.11625633  0.04434406 -0.01927007
## [4,]   0.05869161 -0.08012084  0.04434406  0.10499856 -0.02106736
## [5,]  -0.03361257  0.03197452 -0.01927007 -0.02106736  0.02274237
##
## $v[[263]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865794 -0.08265336  0.15481091  0.05869672 -0.03360236
## [2,]  -0.08265336  0.15367846 -0.05436321 -0.08011645  0.03221632
## [3,]   0.15481091 -0.05436321  0.11626392  0.04436949 -0.01943692
## [4,]   0.05869672 -0.08011645  0.04436949  0.10500366 -0.02079165
## [5,]  -0.03360236  0.03221632 -0.01943692 -0.02079165  0.02057757
##
## $v[[264]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865691 -0.08265307  0.15481283  0.05869570 -0.03354722
## [2,]  -0.08265307  0.15368058 -0.05436286 -0.08012125  0.03234172
## [3,]   0.15481283 -0.05436286  0.11625785  0.04433865 -0.01945336
## [4,]   0.05869570 -0.08012125  0.04433865  0.10496792 -0.02086824
## [5,]  -0.03354722  0.03234172 -0.01945336 -0.02086824  0.02653077
##
## $v[[265]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28865385 -0.08265983  0.15481081  0.05868855 -0.03375043
## [2,]  -0.08265983  0.15366860 -0.05436877 -0.08012206  0.03195379
## [3,]   0.15481081 -0.05436877  0.11623981  0.04435724 -0.01959366
## [4,]   0.05868855 -0.08012206  0.04435724  0.10502408 -0.02116436
## [5,]  -0.03375043  0.03195379 -0.01959366 -0.02116436  0.01414954
##
## $v[[266]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866386 -0.08265150  0.15481068  0.05869365 -0.03287532
## [2,]  -0.08265150  0.15367900 -0.05436315 -0.08013983  0.03261201
## [3,]   0.15481068 -0.05436315  0.11625430  0.04432671 -0.01973366
## [4,]   0.05869365 -0.08013983  0.04432671  0.10512109 -0.02104693
## [5,]  -0.03287532  0.03261201 -0.01973366 -0.02104693  0.08850326
##
## $v[[267]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865610 -0.08265948  0.15480889  0.05868957 -0.03361359
## [2,]  -0.08265948  0.15366913 -0.05436967 -0.08012165  0.03197135
## [3,]   0.15480889 -0.05436967  0.11624235  0.04434876 -0.01970068
## [4,]   0.05868957 -0.08012165  0.04434876  0.10499856 -0.02112862
## [5,]  -0.03361359  0.03197135 -0.01970068 -0.02112862  0.02175697
##
## $v[[268]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866059 -0.08265612  0.15481181  0.05869672 -0.03327254
## [2,]  -0.08265612  0.15368056 -0.05435955 -0.08015117  0.03226860
## [3,]   0.15481181 -0.05435955  0.11625257  0.04433304 -0.01956323
## [4,]   0.05869672 -0.08015117  0.04433304  0.10504451 -0.02084781
## [5,]  -0.03327254  0.03226860 -0.01956323 -0.02084781  0.05205396
##
## $v[[269]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865855 -0.08265761  0.15481058  0.05868957 -0.03350025
## [2,]  -0.08265761  0.15367082 -0.05436969 -0.08011869  0.03203538
## [3,]   0.15481058 -0.05436969  0.11624011  0.04435356 -0.01965544
## [4,]   0.05868957 -0.08011869  0.04435356  0.10513130 -0.02119500
## [5,]  -0.03350025  0.03203538 -0.01965544 -0.02119500  0.02862409
##
## $v[[270]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08265814  0.15481559  0.05869263 -0.03365750
## [2,]  -0.08265814  0.15367180 -0.05436594 -0.08012645  0.03206754
## [3,]   0.15481559 -0.05436594  0.11624282  0.04435172 -0.01933603
## [4,]   0.05869263 -0.08012645  0.04435172  0.10494239 -0.02092440
## [5,]  -0.03365750  0.03206754 -0.01933603 -0.02092440  0.02255856
##
## $v[[271]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865365 -0.08265883  0.15481530  0.05868855 -0.03374532
## [2,]  -0.08265883  0.15366935 -0.05436721 -0.08012584  0.03199086
## [3,]   0.15481530 -0.05436721  0.11624146  0.04435346 -0.01944111
## [4,]   0.05868855 -0.08012584  0.04435346  0.10512620 -0.02122053
## [5,]  -0.03374532  0.03199086 -0.01944111 -0.02122053  0.01462437
##
```

```
## $v[[272]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865324 -0.08265946  0.15480997  0.05868651 -0.03373613
## [2,]  -0.08265946  0.15366889 -0.05436957 -0.08013166  0.03197268
## [3,]   0.15480997 -0.05436957  0.11624298  0.04435744 -0.01966126
## [4,]   0.05868651 -0.08013166  0.04435744  0.10506493 -0.02124605
## [5,]  -0.03373613  0.03197268 -0.01966126 -0.02124605  0.01620202
##
## $v[[273]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865385 -0.08265834  0.15481628  0.05868957 -0.03372592
## [2,]  -0.08265834  0.15366981 -0.05436582 -0.08012758  0.03201812
## [3,]   0.15481628 -0.05436582  0.11624510  0.04434876 -0.01937637
## [4,]   0.05868957 -0.08012758  0.04434876  0.10496792 -0.02111331
## [5,]  -0.03372592  0.03201812 -0.01937637 -0.02111331  0.01586504
##
## $v[[274]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866365 -0.08265440  0.15480578  0.05869059 -0.03341141
## [2,]  -0.08265440  0.15367256 -0.05436939 -0.08011788  0.03214556
## [3,]   0.15480578 -0.05436939  0.11626806  0.04435264 -0.01963757
## [4,]   0.05869059 -0.08011788  0.04435264  0.10510577 -0.02114905
## [5,]  -0.03341141  0.03214556 -0.01963757 -0.02114905  0.02752637
##
## $v[[275]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866100 -0.08265734  0.15481920  0.05868957 -0.03329092
## [2,]  -0.08265734  0.15367140 -0.05436712 -0.08012063  0.03210900
## [3,]   0.15481920 -0.05436712  0.11624451  0.04435468 -0.01918501
## [4,]   0.05868957 -0.08012063  0.04435468  0.10499856 -0.02112862
## [5,]  -0.03329092  0.03210900 -0.01918501 -0.02112862  0.04363983
##
## $v[[276]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865896 -0.08265499  0.15481822  0.05869263 -0.03340222
## [2,]  -0.08265499  0.15367317 -0.05436604 -0.08012217  0.03225625
## [3,]   0.15481822 -0.05436604  0.11625373  0.04432834 -0.01925485
## [4,]   0.05869263 -0.08012217  0.04432834  0.10520789 -0.02114905
## [5,]  -0.03340222  0.03225625 -0.01925485 -0.02114905  0.04053048
##
## $v[[277]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865875 -0.08265473  0.15481800  0.05868855 -0.03345123
## [2,]  -0.08265473  0.15367339 -0.05436498 -0.08012319  0.03226442
## [3,]   0.15481800 -0.05436498  0.11627127  0.04431343 -0.01921248
## [4,]   0.05868855 -0.08012319  0.04431343  0.10515683 -0.02123074
## [5,]  -0.03345123  0.03226442 -0.01921248 -0.02123074  0.03395439
##
## $v[[278]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865834 -0.08265534  0.15481603  0.05868957 -0.03337363
## [2,]  -0.08265534  0.15367392 -0.05437061 -0.08011788  0.03230036
## [3,]   0.15481603 -0.05437061  0.11625297  0.04431139 -0.01930754
## [4,]   0.05868957 -0.08011788  0.04431139  0.10535595 -0.02130732
```

```
## [5,] -0.03337363  0.03230036 -0.01930754 -0.02130732  0.04642242
##
## $v[[279]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866120 -0.08265354  0.15481855  0.05869365 -0.03318165
## [2,]  -0.08265354  0.15367663 -0.05436211 -0.08012993  0.03249182
## [3,]   0.15481855 -0.05436211  0.11628379  0.04431221 -0.01909106
## [4,]   0.05869365 -0.08012993  0.04431221  0.10510067 -0.02103672
## [5,]  -0.03318165  0.03249182 -0.01909106 -0.02103672  0.06021791
##
## $v[[280]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865446 -0.08265661  0.15481640  0.05868957 -0.03371366
## [2,]  -0.08265661  0.15367478 -0.05436296 -0.08013033  0.03206570
## [3,]   0.15481640 -0.05436296  0.11624445  0.04434856 -0.01939587
## [4,]   0.05868957 -0.08013033  0.04434856  0.10493729 -0.02109799
## [5,]  -0.03371366  0.03206570 -0.01939587 -0.02109799  0.01582420
##
## $v[[281]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865548 -0.08265795  0.15481614  0.05869263 -0.03364014
## [2,]  -0.08265795  0.15366979 -0.05436586 -0.08012686  0.03204589
## [3,]   0.15481614 -0.05436586  0.11624547  0.04434825 -0.01937034
## [4,]   0.05869263 -0.08012686  0.04434825  0.10502408 -0.02104183
## [5,]  -0.03364014  0.03204589 -0.01937034 -0.02104183  0.02099112
##
## $v[[282]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865548 -0.08265754  0.15481440  0.05868957 -0.03360032
## [2,]  -0.08265754  0.15367021 -0.05436742 -0.08012696  0.03208623
## [3,]   0.15481440 -0.05436742  0.11623975  0.04435346 -0.01944519
## [4,]   0.05868957 -0.08012696  0.04435346  0.10492708 -0.02109288
## [5,]  -0.03360032  0.03208623 -0.01944519 -0.02109288  0.02419237
##
## $v[[283]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865487 -0.08265920  0.15481365  0.05868957 -0.03369426
## [2,]  -0.08265920  0.15366888 -0.05436830 -0.08012135  0.03198463
## [3,]   0.15481365 -0.05436830  0.11623882  0.04436418 -0.01950860
## [4,]   0.05868957 -0.08012135  0.04436418  0.10517215 -0.02121542
## [5,]  -0.03369426  0.03198463 -0.01950860 -0.02121542  0.01744269
##
## $v[[284]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865385 -0.08265597  0.15481893  0.05869672 -0.03369937
## [2,]  -0.08265597  0.15367654 -0.05435675 -0.08010971  0.03216047
## [3,]   0.15481893 -0.05435675  0.11625910  0.04437112 -0.01919379
## [4,]   0.05869672 -0.08010971  0.04437112  0.10500366 -0.02082739
## [5,]  -0.03369937  0.03216047 -0.01919379 -0.02082739  0.01854041
##
## $v[[285]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865896 -0.08265869  0.15480427  0.05868855 -0.03351352
## [2,]  -0.08265869  0.15366893 -0.05437025 -0.08012462  0.03201383
```

```
## [3,]   0.15480427 -0.05437025  0.11624811  0.04435458 -0.01987989
## [4,]   0.05868855 -0.08012462  0.04435458  0.10499345 -0.02115415
## [5,]  -0.03351352  0.03201383 -0.01987989 -0.02115415  0.02569854
##
## $v[[286]]
##            [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865467 -0.08265822  0.15481256  0.05868957 -0.03370856
## [2,]  -0.08265822  0.15366988 -0.05436829 -0.08012829  0.03201771
## [3,]   0.15481256 -0.05436829  0.11623858  0.04435264 -0.01953127
## [4,]   0.05868957 -0.08012829  0.04435264  0.10500877 -0.02113373
## [5,]  -0.03370856  0.03201771 -0.01953127 -0.02113373  0.01613564
##
## $v[[287]]
##            [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865753 -0.08265350  0.15482304  0.05869365 -0.03336954
## [2,]  -0.08265350  0.15367706 -0.05435928 -0.08012370  0.03247099
## [3,]   0.15482304 -0.05435928  0.11628296  0.04431854 -0.01872346
## [4,]   0.05869365 -0.08012370  0.04431854  0.10526405 -0.02109799
## [5,]  -0.03336954  0.03247099 -0.01872346 -0.02109799  0.04983300
##
## $v[[288]]
##            [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865365 -0.08265850  0.15481424  0.05869161 -0.03373000
## [2,]  -0.08265850  0.15366969 -0.05436717 -0.08012502  0.03201373
## [3,]   0.15481424 -0.05436717  0.11624238  0.04434978 -0.01944652
## [4,]   0.05869161 -0.08012502  0.04434978  0.10496792 -0.02104183
## [5,]  -0.03373000  0.03201373 -0.01944652 -0.02104183  0.01593652
##
## $v[[289]]
##            [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865651 -0.08265714  0.15481140  0.05868753 -0.03356968
## [2,]  -0.08265714  0.15367118 -0.05436902 -0.08013626  0.03206162
## [3,]   0.15481140 -0.05436902  0.11623925  0.04435795 -0.01961480
## [4,]   0.05868753 -0.08013626  0.04435795  0.10543764 -0.02139922
## [5,]  -0.03356968  0.03206162 -0.01961480 -0.02139922  0.02813394
##
## $v[[290]]
##            [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08266008  0.15480772  0.05868957 -0.03361155
## [2,]  -0.08266008  0.15366918 -0.05436810 -0.08012237  0.03194858
## [3,]   0.15480772 -0.05436810  0.11624386  0.04435673 -0.01972631
## [4,]   0.05868957 -0.08012237  0.04435673  0.10528447 -0.02127158
## [5,]  -0.03361155  0.03194858 -0.01972631 -0.02127158  0.02136894
##
## $v[[291]]
##            [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865548 -0.08265763  0.15481591  0.05869059 -0.03363504
## [2,]  -0.08265763  0.15367021 -0.05436666 -0.08012615  0.03205161
## [3,]   0.15481591 -0.05436666  0.11624178  0.04435928 -0.01938198
## [4,]   0.05869059 -0.08012615  0.04435928  0.10502408 -0.02111331
## [5,]  -0.03363504  0.03205161 -0.01938198 -0.02111331  0.02124130
##
## $v[[292]]
##            [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28865487 -0.08265795  0.15481193  0.05868855 -0.03366363
## [2,]  -0.08265795  0.15366988 -0.05436896 -0.08012482  0.03204426
## [3,]   0.15481193 -0.05436896  0.11623944  0.04436122 -0.01957876
## [4,]   0.05868855 -0.08012482  0.04436122  0.10498324 -0.02115415
## [5,]  -0.03366363  0.03204426 -0.01957876 -0.02115415  0.01938284
##
## $v[[293]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865426 -0.08265681  0.15481824  0.05869059 -0.03371877
## [2,]  -0.08265681  0.15367256 -0.05436225 -0.08012288  0.03207050
## [3,]   0.15481824 -0.05436225  0.11625005  0.04435417 -0.01932194
## [4,]   0.05869059 -0.08012288  0.04435417  0.10495260 -0.02107757
## [5,]  -0.03371877  0.03207050 -0.01932194 -0.02107757  0.01582930
##
## $v[[294]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865814 -0.08265701  0.15480915  0.05868957 -0.03362074
## [2,]  -0.08265701  0.15367018 -0.05437021 -0.08012472  0.03203987
## [3,]   0.15480915 -0.05437021  0.11624078  0.04435356 -0.01963471
## [4,]   0.05868957 -0.08012472  0.04435356  0.10496792 -0.02111331
## [5,]  -0.03362074  0.03203987 -0.01963471 -0.02111331  0.01811664
##
## $v[[295]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865589 -0.08265612  0.15481252  0.05868855 -0.03370039
## [2,]  -0.08265612  0.15367256 -0.05436747 -0.08012676  0.03205080
## [3,]   0.15481252 -0.05436747  0.11624415  0.04435377 -0.01956017
## [4,]   0.05868855 -0.08012676  0.04435377  0.10492197 -0.02111331
## [5,]  -0.03370039  0.03205080 -0.01956017 -0.02111331  0.01529831
##
## $v[[296]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865385 -0.08265801  0.15481640  0.05869467 -0.03373000
## [2,]  -0.08265801  0.15367040 -0.05436543 -0.08012074  0.03202271
## [3,]   0.15481640 -0.05436543  0.11624432  0.04436245 -0.01938791
## [4,]   0.05869467 -0.08012074  0.04436245  0.10492197 -0.02089887
## [5,]  -0.03373000  0.03202271 -0.01938791 -0.02089887  0.01547701
##
## $v[[297]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865814 -0.08265640  0.15481673  0.05869467 -0.03337771
## [2,]  -0.08265640  0.15367363 -0.05436073 -0.08011757  0.03217742
## [3,]   0.15481673 -0.05436073  0.11625208  0.04436255 -0.01928498
## [4,]   0.05869467 -0.08011757  0.04436255  0.10523852 -0.02100609
## [5,]  -0.03337771  0.03217742 -0.01928498 -0.02100609  0.04433931
##
## $v[[298]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865283 -0.08266004  0.15481281  0.05868855 -0.03376983
## [2,]  -0.08266004  0.15366853 -0.05436868 -0.08012370  0.03194623
## [3,]   0.15481281 -0.05436868  0.11623795  0.04435530 -0.01952831
## [4,]   0.05868855 -0.08012370  0.04435530  0.10511599 -0.02121542
## [5,]  -0.03376983  0.03194623 -0.01952831 -0.02121542  0.01394021
##
```

```
## $v[[299]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865569 -0.08265869  0.15480829  0.05868957 -0.03364525
## [2,] -0.08265869  0.15366976 -0.05436966 -0.08012074  0.03201271
## [3,]  0.15480829 -0.05436966  0.11624362  0.04436061 -0.01972947
## [4,]  0.05868957 -0.08012074  0.04436061  0.10496792 -0.02111331
## [5,] -0.03364525  0.03201271 -0.01972947 -0.02111331  0.01968918
##
## $v[[300]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865365 -0.08265875  0.15481332  0.05869263 -0.03374940
## [2,] -0.08265875  0.15366976 -0.05436799 -0.08012533  0.03199484
## [3,]  0.15481332 -0.05436799  0.11623846  0.04435540 -0.01950799
## [4,]  0.05869263 -0.08012533  0.04435540  0.10494239 -0.02098567
## [5,] -0.03374940  0.03199484 -0.01950799 -0.02098567  0.01431803
##
## $v[[301]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865957 -0.08265754  0.15481748  0.05869263 -0.03347472
## [2,] -0.08265754  0.15367271 -0.05436255 -0.08012615  0.03206948
## [3,]  0.15481748 -0.05436255  0.11625925  0.04435632 -0.01930581
## [4,]  0.05869263 -0.08012615  0.04435632  0.10502408 -0.02102651
## [5,] -0.03347472  0.03206948 -0.01930581 -0.02102651  0.02737320
##
## $v[[302]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865651 -0.08265724  0.15481495  0.05868855 -0.03361564
## [2,] -0.08265724  0.15367020 -0.05436710 -0.08012717  0.03206693
## [3,]  0.15481495 -0.05436710  0.11624810  0.04434212 -0.01944264
## [4,]  0.05868855 -0.08012717  0.04434212  0.10498324 -0.02114905
## [5,] -0.03361564  0.03206693 -0.01944264 -0.02114905  0.02051119
##
## $v[[303]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866284 -0.08265605  0.15481873  0.05869059 -0.03315204
## [2,] -0.08265605  0.15367250 -0.05436539 -0.08012615  0.03222602
## [3,]  0.15481873 -0.05436539  0.11625386  0.04434611 -0.01921309
## [4,]  0.05869059 -0.08012615  0.04434611  0.10506493 -0.02113373
## [5,] -0.03315204  0.03222602 -0.01921309 -0.02113373  0.05526031
##
## $v[[304]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865814 -0.08265440  0.15481718  0.05869672 -0.03342060
## [2,] -0.08265440  0.15367511 -0.05436367 -0.08012615  0.03230302
## [3,]  0.15481718 -0.05436367  0.11624394  0.04435754 -0.01926098
## [4,]  0.05869672 -0.08012615  0.04435754  0.10501387 -0.02090398
## [5,] -0.03342060  0.03230302 -0.01926098 -0.02090398  0.03858012
##
## $v[[305]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866141 -0.08266310  0.15481091  0.05868446 -0.03325109
## [2,] -0.08266310  0.15368018 -0.05436605 -0.08011992  0.03175896
## [3,]  0.15481091 -0.05436605  0.11624832  0.04437347 -0.01962369
## [4,]  0.05868446 -0.08011992  0.04437347  0.10499345 -0.02131753
```

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```
## [5,]  -0.03325109   0.03175896  -0.01962369  -0.02131753   0.04536044
##
## $v[[306]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865467  -0.08265618   0.15481471   0.05869365  -0.03368916
## [2,]  -0.08265618   0.15367414  -0.05436432  -0.08012094   0.03212391
## [3,]   0.15481471  -0.05436432   0.11624466   0.04435448  -0.01941231
## [4,]   0.05869365  -0.08012094   0.04435448   0.10493729  -0.02093461
## [5,]  -0.03368916   0.03212391  -0.01941231  -0.02093461   0.01763160
##
## $v[[307]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865569  -0.08265746   0.15481385   0.05868957  -0.03364831
## [2,]  -0.08265746   0.15367183  -0.05436815  -0.08013176   0.03207347
## [3,]   0.15481385  -0.05436815   0.11623870   0.04435417  -0.01949308
## [4,]   0.05868957  -0.08013176   0.04435417   0.10504961  -0.02115415
## [5,]  -0.03364831   0.03207347  -0.01949308  -0.02115415   0.01975555
##
## $v[[308]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865753  -0.08265732   0.15482457   0.05869263  -0.03352884
## [2,]  -0.08265732   0.15367177  -0.05436211  -0.08013370   0.03207449
## [3,]   0.15482457  -0.05436211   0.11626437   0.04435407  -0.01891379
## [4,]   0.05869263  -0.08013370   0.04435407   0.10504451  -0.02105204
## [5,]  -0.03352884   0.03207449  -0.01891379  -0.02105204   0.02741915
##
## $v[[309]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865896  -0.08265550   0.15481503   0.05868855  -0.03355028
## [2,]  -0.08265550   0.15367160  -0.05436828  -0.08012584   0.03212912
## [3,]   0.15481503  -0.05436828   0.11624612   0.04433957  -0.01949339
## [4,]   0.05868855  -0.08012584   0.04433957   0.10513641  -0.02122053
## [5,]  -0.03355028   0.03212912  -0.01949339  -0.02122053   0.02403410
##
## $v[[310]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865814  -0.08265609   0.15480917   0.05868753  -0.03337975
## [2,]  -0.08265609   0.15367182  -0.05437148  -0.08012799   0.03214525
## [3,]   0.15480917  -0.05437148   0.11624569   0.04436030  -0.01975286
## [4,]   0.05868753  -0.08012799   0.04436030   0.10546828  -0.02141454
## [5,]  -0.03337975   0.03214525  -0.01975286  -0.02141454   0.04760693
##
## $v[[311]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865467  -0.08265824   0.15481851   0.05869570  -0.03367690
## [2,]  -0.08265824   0.15366958  -0.05436563  -0.08012084   0.03202854
## [3,]   0.15481851  -0.05436563   0.11625143   0.04436459  -0.01924832
## [4,]   0.05869570  -0.08012084   0.04436459   0.10493729  -0.02085292
## [5,]  -0.03367690   0.03202854  -0.01924832  -0.02085292   0.01883654
##
## $v[[312]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866467  -0.08265113   0.15481162   0.05869467  -0.03302849
## [2,]  -0.08265113   0.15368139  -0.05436354  -0.08014749   0.03258342
```

```
## [3,]   0.15481162 -0.05436354  0.11627843  0.04432201 -0.01960898
## [4,]   0.05869467 -0.08014749  0.04432201  0.10541211 -0.02114394
## [5,]  -0.03302849  0.03258342 -0.01960898 -0.02114394  0.06773344
##
## $v[[313]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865446 -0.08265759  0.15481324  0.05869059 -0.03372081
## [2,]  -0.08265759  0.15367057 -0.05436828 -0.08012400  0.03202884
## [3,]   0.15481324 -0.05436828  0.11623823  0.04435540 -0.01951371
## [4,]   0.05869059 -0.08012400  0.04435540  0.10497303 -0.02108778
## [5,]  -0.03372081  0.03202884 -0.01951371 -0.02108778  0.01540043
##
## $v[[314]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865875 -0.08265630  0.15481201  0.05868855 -0.03355845
## [2,]  -0.08265630  0.15367190 -0.05436934 -0.08012084  0.03209899
## [3,]   0.15481201 -0.05436934  0.11624203  0.04435887 -0.01961552
## [4,]   0.05868855 -0.08012084  0.04435887  0.10497303 -0.02114394
## [5,]  -0.03355845  0.03209899 -0.01961552 -0.02114394  0.02259430
##
## $v[[315]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865732 -0.08265746  0.15481342  0.05868855 -0.03350637
## [2,]  -0.08265746  0.15367216 -0.05436814 -0.08013136  0.03207449
## [3,]   0.15481342 -0.05436814  0.11624034  0.04435203 -0.01948430
## [4,]   0.05868855 -0.08013136  0.04435203  0.10503430 -0.02117457
## [5,]  -0.03350637  0.03207449 -0.01948430 -0.02117457  0.02995156
##
## $v[[316]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865834 -0.08265744  0.15481136  0.05868957 -0.03331542
## [2,]  -0.08265744  0.15367107 -0.05436833 -0.08013575  0.03216894
## [3,]   0.15481136 -0.05436833  0.11625111  0.04432487 -0.01974244
## [4,]   0.05868957 -0.08013575  0.04432487  0.10522320 -0.02124095
## [5,]  -0.03331542  0.03216894 -0.01974244 -0.02124095  0.05244199
##
## $v[[317]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865467 -0.08265724  0.15481414  0.05869059 -0.03369528
## [2,]  -0.08265724  0.15367132 -0.05436676 -0.08012707  0.03205958
## [3,]   0.15481414 -0.05436676  0.11624070  0.04435050 -0.01946490
## [4,]   0.05869059 -0.08012707  0.04435050  0.10492197 -0.02105714
## [5,]  -0.03369528  0.03205958 -0.01946490 -0.02105714  0.01696786
##
## $v[[318]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865569 -0.08265761  0.15481215  0.05868651 -0.03365342
## [2,]  -0.08265761  0.15367028 -0.05436846 -0.08013309  0.03204161
## [3,]   0.15481215 -0.05436846  0.11623991  0.04434886 -0.01958978
## [4,]   0.05868651 -0.08013309  0.04434886  0.10519768 -0.02128179
## [5,]  -0.03365342  0.03204161 -0.01958978 -0.02128179  0.02027123
##
## $v[[319]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
```

```
## [1,]   0.28866529 -0.08265464  0.15483152  0.05869059 -0.03327356
## [2,] -0.08265464  0.15367263 -0.05435859 -0.08012768  0.03219845
## [3,]  0.15483152 -0.05435859  0.11628402  0.04435591 -0.01874531
## [4,]  0.05869059 -0.08012768  0.04435591  0.10509556 -0.02116436
## [5,] -0.03327356  0.03219845 -0.01874531 -0.02116436  0.03655828
##
## $v[[320]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865426 -0.08265910  0.15480731  0.05869059 -0.03371571
## [2,] -0.08265910  0.15366886 -0.05437030 -0.08012451  0.03198514
## [3,]  0.15480731 -0.05437030  0.11624944  0.04435377 -0.01973346
## [4,]  0.05869059 -0.08012451  0.04435377  0.10495260 -0.02107757
## [5,] -0.03371571  0.03198514 -0.01973346 -0.02107757  0.01606927
##
## $v[[321]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865916 -0.08265299  0.15481616  0.05869467 -0.03325926
## [2,] -0.08265299  0.15368374 -0.05435901 -0.08012421  0.03239328
## [3,]  0.15481616 -0.05435901  0.11625004  0.04434315 -0.01929161
## [4,]  0.05869467 -0.08012421  0.04434315  0.10504451 -0.02093461
## [5,] -0.03325926  0.03239328 -0.01929161 -0.02093461  0.05510204
##
## $v[[322]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08265828  0.15481373  0.05869263 -0.03368507
## [2,] -0.08265828  0.15366977 -0.05436781 -0.08012257  0.03204395
## [3,]  0.15481373 -0.05436781  0.11623889  0.04436051 -0.01946858
## [4,]  0.05869263 -0.08012257  0.04436051  0.10502408 -0.02102651
## [5,] -0.03368507  0.03204395 -0.01946858 -0.02102651  0.01973513
##
## $v[[323]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866794 -0.08265902  0.15482774  0.05868957 -0.03318165
## [2,] -0.08265902  0.15368443 -0.05436335 -0.08010746  0.03209991
## [3,]  0.15482774 -0.05436335  0.11626728  0.04434560 -0.01887601
## [4,]  0.05868957 -0.08010746  0.04434560  0.10513130 -0.02119500
## [5,] -0.03318165  0.03209991 -0.01887601 -0.02119500  0.04173542
##
## $v[[324]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265814  0.15480568  0.05868957 -0.03364219
## [2,] -0.08265814  0.15366980 -0.05437076 -0.08012656  0.03200709
## [3,]  0.15480568 -0.05437076  0.11624825  0.04435346 -0.01977369
## [4,]  0.05868957 -0.08012656  0.04435346  0.10493729 -0.02109799
## [5,] -0.03364219  0.03200709 -0.01977369 -0.02109799  0.01819322
##
## $v[[325]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865589 -0.08265440  0.15481340  0.05869161 -0.03366771
## [2,] -0.08265440  0.15367613 -0.05436741 -0.08012135  0.03214627
## [3,]  0.15481340 -0.05436741  0.11624409  0.04435346 -0.01949952
## [4,]  0.05869161 -0.08012135  0.04435346  0.10492708 -0.02103162
## [5,] -0.03366771  0.03214627 -0.01949952 -0.02103162  0.01733037
##
```

```
## $v[[326]]
##                 [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]    0.28866141 -0.08265548  0.15480637  0.05868957 -0.03349106
## [2,]   -0.08265548  0.15367392 -0.05437027 -0.08012666  0.03209093
## [3,]    0.15480637 -0.05437027  0.11624870  0.04435662 -0.01976133
## [4,]    0.05868957 -0.08012666  0.04435662  0.10493729 -0.02109799
## [5,]   -0.03349106  0.03209093 -0.01976133 -0.02109799  0.02312529
##
## $v[[327]]
##                 [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]    0.28865753 -0.08265197  0.15481585  0.05869570 -0.03346349
## [2,]   -0.08265197  0.15368579 -0.05434841 -0.08012880  0.03245700
## [3,]    0.15481585 -0.05434841  0.11628263  0.04432262 -0.01924730
## [4,]    0.05869570 -0.08012880  0.04432262  0.10554997 -0.02115926
## [5,]   -0.03346349  0.03245700 -0.01924730 -0.02115926  0.03625194
##
## $v[[328]]
##                 [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]    0.28865569 -0.08265701  0.15481448  0.05869263 -0.03363708
## [2,]   -0.08265701  0.15367162 -0.05436724 -0.08012094  0.03208919
## [3,]    0.15481448 -0.05436724  0.11624117  0.04434907 -0.01942936
## [4,]    0.05869263 -0.08012094  0.04434907  0.10497303 -0.02101630
## [5,]   -0.03363708  0.03208919 -0.01942936 -0.02101630  0.02072052
##
## $v[[329]]
##                 [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]    0.28865324 -0.08265902  0.15481369  0.05868855 -0.03377697
## [2,]   -0.08265902  0.15366927 -0.05436789 -0.08012635  0.03197339
## [3,]    0.15481369 -0.05436789  0.11623870  0.04435438 -0.01950922
## [4,]    0.05868855 -0.08012635  0.04435438  0.10490155 -0.02110310
## [5,]   -0.03377697  0.03197339 -0.01950922 -0.02110310  0.01299566
##
## $v[[330]]
##                 [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]    0.28865406 -0.08265609  0.15481712  0.05869059 -0.03374838
## [2,]   -0.08265609  0.15367498 -0.05436114 -0.08012533  0.03206305
## [3,]    0.15481712 -0.05436114  0.11624790  0.04435234 -0.01940108
## [4,]    0.05869059 -0.08012533  0.04435234  0.10492197 -0.02106736
## [5,]   -0.03374838  0.03206305 -0.01940108 -0.02106736  0.01401679
##
## $v[[331]]
##                 [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]    0.28865385 -0.08265971  0.15481213  0.05868855 -0.03373715
## [2,]   -0.08265971  0.15366881 -0.05436906 -0.08012788  0.03196094
## [3,]    0.15481213 -0.05436906  0.11623857  0.04435959 -0.01955649
## [4,]    0.05868855 -0.08012788  0.04435959  0.10495260 -0.02112862
## [5,]   -0.03373715  0.03196094 -0.01955649 -0.02112862  0.01497155
##
## $v[[332]]
##                 [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]    0.28865283 -0.08265885  0.15481119  0.05868957 -0.03378004
## [2,]   -0.08265885  0.15367042 -0.05437030 -0.08012533  0.03198412
## [3,]    0.15481119 -0.05437030  0.11624078  0.04435540 -0.01957814
## [4,]    0.05868957 -0.08012533  0.04435540  0.10489644 -0.02107757
```

```
## [5,] -0.03378004  0.03198412 -0.01957814 -0.02107757  0.01312330
##
## $v[[333]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865467 -0.08265926  0.15480774  0.05868957 -0.03373511
## [2,] -0.08265926  0.15366918 -0.05436986 -0.08012431  0.03196859
## [3,]  0.15480774 -0.05436986  0.11624743  0.04435642 -0.01966749
## [4,]  0.05868957 -0.08012431  0.04435642  0.10491687 -0.02108778
## [5,] -0.03373511  0.03196859 -0.01966749 -0.02108778  0.01421591
##
## $v[[334]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866059 -0.08265385  0.15480435  0.05869059 -0.03359623
## [2,] -0.08265385  0.15367476 -0.05437087 -0.08012165  0.03210441
## [3,]  0.15480435 -0.05437087  0.11625975  0.04435754 -0.01969904
## [4,]  0.05869059 -0.08012165  0.04435754  0.10498324 -0.02109288
## [5,] -0.03359623  0.03210441 -0.01969904 -0.02109288  0.01785114
##
## $v[[335]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865937 -0.08265352  0.15480932  0.05868957 -0.03359215
## [2,] -0.08265352  0.15367732 -0.05436433 -0.08012462  0.03213402
## [3,]  0.15480932 -0.05436433  0.11626677  0.04435673 -0.01966555
## [4,]  0.05868957 -0.08012462  0.04435673  0.10496792 -0.02111331
## [5,] -0.03359215  0.03213402 -0.01966555 -0.02111331  0.01873953
##
## $v[[336]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865528 -0.08266008  0.15480985  0.05869059 -0.03368507
## [2,] -0.08266008  0.15366855 -0.05436856 -0.08012329  0.03194388
## [3,]  0.15480985 -0.05436856  0.11624022  0.04435550 -0.01963492
## [4,]  0.05869059 -0.08012329  0.04435550  0.10508535 -0.02114394
## [5,] -0.03368507  0.03194388 -0.01963492 -0.02114394  0.01732526
##
## $v[[337]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865324 -0.08265781  0.15481902  0.05869570 -0.03375553
## [2,] -0.08265781  0.15367232 -0.05435941 -0.08011737  0.03204079
## [3,]  0.15481902 -0.05435941  0.11626487  0.04438093 -0.01927844
## [4,]  0.05869570 -0.08011737  0.04438093  0.10492708 -0.02084781
## [5,] -0.03375553  0.03204079 -0.01927844 -0.02084781  0.01447120
##
## $v[[338]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865181 -0.08265997  0.15481293  0.05868855 -0.03381067
## [2,] -0.08265997  0.15366848 -0.05436867 -0.08012533  0.03195042
## [3,]  0.15481293 -0.05436867  0.11623814  0.04435438 -0.01952607
## [4,]  0.05868855 -0.08012533  0.04435438  0.10490155 -0.02110820
## [5,] -0.03381067  0.03195042 -0.01952607 -0.02110820  0.01220428
##
## $v[[339]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865548 -0.08265789  0.15481222  0.05868753 -0.03364423
## [2,] -0.08265789  0.15367031 -0.05436932 -0.08013013  0.03205274
```

```
## [3,]   0.15481222 -0.05436932  0.11623938  0.04436847 -0.01954761
## [4,]   0.05868753 -0.08013013  0.04436847  0.10519257 -0.02126648
## [5,]  -0.03364423  0.03205274 -0.01954761 -0.02126648  0.02090943
##
## $v[[340]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866141 -0.08265356  0.15480609  0.05868957 -0.03304789
## [2,]  -0.08265356  0.15367793 -0.05436426 -0.08012605  0.03228229
## [3,]   0.15480609 -0.05436426  0.11626193  0.04434406 -0.02030662
## [4,]   0.05868957 -0.08012605  0.04434406  0.10595842 -0.02160856
## [5,]  -0.03304789  0.03228229 -0.02030662 -0.02160856  0.09002985
##
## $v[[341]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866039 -0.08265148  0.15481305  0.05869570 -0.03309343
## [2,]  -0.08265148  0.15368684 -0.05435614 -0.08014718  0.03266946
## [3,]   0.15481305 -0.05435614  0.11625480  0.04432609 -0.01951232
## [4,]   0.05869570 -0.08014718  0.04432609  0.10515949 -0.02093338
## [5,]  -0.03309343  0.03266946 -0.01951232 -0.02093338  0.07664261
##
## $v[[342]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865263 -0.08265987  0.15481105  0.05868957 -0.03379127
## [2,]  -0.08265987  0.15366892 -0.05436835 -0.08012533  0.03195297
## [3,]   0.15481105 -0.05436835  0.11624167  0.04435540 -0.01957406
## [4,]   0.05868957 -0.08012533  0.04435540  0.10489644 -0.02107757
## [5,]  -0.03379127  0.03195297 -0.01957406 -0.02107757  0.01265869
##
## $v[[343]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865385 -0.08265936  0.15480952  0.05869059 -0.03374940
## [2,]  -0.08265936  0.15366873 -0.05436952 -0.08012441  0.03196900
## [3,]   0.15480952 -0.05436952  0.11624271  0.04435438 -0.01962961
## [4,]   0.05869059 -0.08012441  0.04435438  0.10492197 -0.02106225
## [5,]  -0.03374940  0.03196900 -0.01962961 -0.02106225  0.01409338
##
## $v[[344]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866202 -0.08265932  0.15480380  0.05869570 -0.03314489
## [2,]  -0.08265932  0.15366893 -0.05436953 -0.08012349  0.03197717
## [3,]   0.15480380 -0.05436953  0.11624691  0.04434958 -0.02004082
## [4,]   0.05869570 -0.08012349  0.04434958  0.10583588 -0.02130222
## [5,]  -0.03314489  0.03197717 -0.02004082 -0.02130222  0.06334257
##
## $v[[345]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865324 -0.08265969  0.15481273  0.05868957 -0.03377085
## [2,]  -0.08265969  0.15366898 -0.05436852 -0.08012584  0.03195838
## [3,]   0.15481273 -0.05436852  0.11623844  0.04435560 -0.01953107
## [4,]   0.05868957 -0.08012584  0.04435560  0.10490665 -0.02108267
## [5,]  -0.03377085  0.03195838 -0.01953107 -0.02108267  0.01332242
##
## $v[[346]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
```

```
## [1,]   0.28865937 -0.08265240  0.15481851  0.05869672 -0.03344817
## [2,] -0.08265240  0.15368513 -0.05435177 -0.08010879  0.03234621
## [3,]   0.15481851 -0.05435177  0.11627862  0.04435550 -0.01919185
## [4,]   0.05869672 -0.08010879  0.04435550  0.10511599 -0.02084781
## [5,] -0.03344817  0.03234621 -0.01919185 -0.02084781  0.03076336
##
## $v[[347]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865732 -0.08265879  0.15481318  0.05868753 -0.03364933
## [2,] -0.08265879  0.15366928 -0.05436827 -0.08012502  0.03198606
## [3,]   0.15481318 -0.05436827  0.11623844  0.04435448 -0.01951851
## [4,]   0.05868753 -0.08012502  0.04435448  0.10494750 -0.02115415
## [5,] -0.03364933  0.03198606 -0.01951851 -0.02115415  0.01721804
##
## $v[[348]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865508 -0.08265783  0.15480858  0.05869059 -0.03369324
## [2,] -0.08265783  0.15367073 -0.05437182 -0.08012165  0.03202608
## [3,]   0.15480858 -0.05437182  0.11624443  0.04435111 -0.01966780
## [4,]   0.05869059 -0.08012165  0.04435111  0.10493218 -0.02106736
## [5,] -0.03369324  0.03202608 -0.01966780 -0.02106736  0.01657983
##
## $v[[349]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865916 -0.08265242  0.15481271  0.05869161 -0.03333380
## [2,] -0.08265242  0.15367992 -0.05436212 -0.08014004  0.03248621
## [3,]   0.15481271 -0.05436212  0.11626385  0.04430730 -0.01949237
## [4,]   0.05869161 -0.08014004  0.04430730  0.10505982 -0.02109799
## [5,] -0.03333380  0.03248621 -0.01949237 -0.02109799  0.04554935
##
## $v[[350]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865467 -0.08265752  0.15481099  0.05868957 -0.03368609
## [2,] -0.08265752  0.15367062 -0.05437006 -0.08012308  0.03204538
## [3,]   0.15481099 -0.05437006  0.11623907  0.04435805 -0.01961010
## [4,]   0.05868957 -0.08012308  0.04435805  0.10514151 -0.02120010
## [5,] -0.03368609  0.03204538 -0.01961010 -0.02120010  0.01870889
##
## $v[[351]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865896 -0.08265230  0.15481081  0.05869672 -0.03338384
## [2,] -0.08265230  0.15367927 -0.05436712 -0.08012707  0.03244536
## [3,]   0.15481081 -0.05436712  0.11624781  0.04433927 -0.01947603
## [4,]   0.05869672 -0.08012707  0.04433927  0.10499345 -0.02082228
## [5,] -0.03338384  0.03244536 -0.01947603 -0.02082228  0.04136781
##
## $v[[352]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866427 -0.08265473  0.15481109  0.05869467 -0.03327458
## [2,] -0.08265473  0.15367411 -0.05437142 -0.08013105  0.03216475
## [3,]   0.15481109 -0.05437142  0.11625123  0.04435223 -0.01954363
## [4,]   0.05869467 -0.08013105  0.04435223  0.10508535 -0.02098056
## [5,] -0.03327458  0.03216475 -0.01954363 -0.02098056  0.03759473
##
```

```
## $v[[353]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866325 -0.08265340  0.15480650  0.05869059 -0.03291820
## [2,]  -0.08265340  0.15367464 -0.05437016 -0.08013421  0.03254502
## [3,]   0.15480650 -0.05437016  0.11625327  0.04432303 -0.02010270
## [4,]   0.05869059 -0.08013421  0.04432303  0.10517725 -0.02118989
## [5,]  -0.03291820  0.03254502 -0.02010270 -0.02118989  0.09340469
##
## $v[[354]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866447 -0.08265083  0.15480742  0.05869263 -0.03278239
## [2,]  -0.08265083  0.15368497 -0.05435715 -0.08014943  0.03262283
## [3,]   0.15480742 -0.05435715  0.11628782  0.04433722 -0.02025914
## [4,]   0.05869263 -0.08014943  0.04433722  0.10575930 -0.02140944
## [5,]  -0.03278239  0.03262283 -0.02025914 -0.02140944  0.11155531
##
## $v[[355]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865569 -0.08265769  0.15480803  0.05868957 -0.03365954
## [2,]  -0.08265769  0.15367076 -0.05437069 -0.08012094  0.03204988
## [3,]   0.15480803 -0.05437069  0.11624414  0.04435530 -0.01970293
## [4,]   0.05868957 -0.08012094  0.04435530  0.10498834 -0.02112352
## [5,]  -0.03365954  0.03204988 -0.01970293 -0.02112352  0.01855572
##
## $v[[356]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865548 -0.08265703  0.15481244  0.05868753 -0.03362176
## [2,]  -0.08265703  0.15367133 -0.05436865 -0.08013503  0.03208858
## [3,]   0.15481244 -0.05436865  0.11623836  0.04434989 -0.01955098
## [4,]   0.05868753 -0.08013503  0.04434989  0.10532532 -0.02133285
## [5,]  -0.03362176  0.03208858 -0.01955098 -0.02133285  0.02276789
##
## $v[[357]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865630 -0.08266010  0.15481275  0.05869059 -0.03364525
## [2,]  -0.08266010  0.15366940 -0.05436872 -0.08012206  0.03193622
## [3,]   0.15481275 -0.05436872  0.11623866  0.04435622 -0.01952801
## [4,]   0.05869059 -0.08012206  0.04435622  0.10496282 -0.02108267
## [5,]  -0.03364525  0.03193622 -0.01952801 -0.02108267  0.01847403
##
## $v[[358]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865589 -0.08265840  0.15480584  0.05869059 -0.03366159
## [2,]  -0.08265840  0.15366935 -0.05437106 -0.08012502  0.03201679
## [3,]   0.15480584 -0.05437106  0.11624928  0.04435611 -0.01977573
## [4,]   0.05869059 -0.08012502  0.04435611  0.10498324 -0.02109288
## [5,]  -0.03366159  0.03201679 -0.01977573 -0.02109288  0.01818812
##
## $v[[359]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865896 -0.08265703  0.15481579  0.05869672 -0.03347472
## [2,]  -0.08265703  0.15367387 -0.05436606 -0.08012748  0.03217976
## [3,]   0.15481579 -0.05436606  0.11624170  0.04435816 -0.01934073
## [4,]   0.05869672 -0.08012748  0.04435816  0.10501387 -0.02086824
```

```
## [5,] -0.03347472  0.03217976 -0.01934073 -0.02086824  0.03065103
##
## $v[[360]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865773 -0.08265656  0.15480780  0.05868957 -0.03359215
## [2,]  -0.08265656  0.15367106 -0.05437210 -0.08012298  0.03208235
## [3,]   0.15480780 -0.05437210  0.11624358  0.04435091 -0.01971375
## [4,]   0.05868957 -0.08012298  0.04435091  0.10494750 -0.02110310
## [5,]  -0.03359215  0.03208235 -0.01971375 -0.02110310  0.02072052
##
## $v[[361]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866039 -0.08265997  0.15481403  0.05868753 -0.03355233
## [2,]  -0.08265997  0.15366937 -0.05436787 -0.08012206  0.03195175
## [3,]   0.15481403 -0.05436787  0.11624370  0.04435724 -0.01949860
## [4,]   0.05868753 -0.08012206  0.04435724  0.10495771 -0.02115926
## [5,]  -0.03355233  0.03195175 -0.01949860 -0.02115926  0.02018443
##
## $v[[362]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865630 -0.08265818  0.15480754  0.05868855 -0.03359726
## [2,]  -0.08265818  0.15366979 -0.05437081 -0.08012135  0.03201281
## [3,]   0.15480754 -0.05437081  0.11624425  0.04435785 -0.01976287
## [4,]   0.05868855 -0.08012135  0.04435785  0.10531000 -0.02130732
## [5,]  -0.03359726  0.03201281 -0.01976287 -0.02130732  0.02382987
##
## $v[[363]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08265973  0.15480676  0.05869161 -0.03374940
## [2,]  -0.08265973  0.15366872 -0.05436930 -0.08012482  0.03195787
## [3,]   0.15480676 -0.05436930  0.11625273  0.04435101 -0.01969935
## [4,]   0.05869161 -0.08012482  0.04435101  0.10497813 -0.02105714
## [5,]  -0.03374940  0.03195787 -0.01969935 -0.02105714  0.01398105
##
## $v[[364]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865977 -0.08265264  0.15481301  0.05869570 -0.03321944
## [2,]  -0.08265264  0.15367751 -0.05436494 -0.08013299  0.03253185
## [3,]   0.15481301 -0.05436494  0.11624373  0.04433263 -0.01943427
## [4,]   0.05869570 -0.08013299  0.04433263  0.10509046 -0.02092950
## [5,]  -0.03321944  0.03253185 -0.01943427 -0.02092950  0.05938568
##
## $v[[365]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265513  0.15480942  0.05868855 -0.03361768
## [2,]  -0.08265513  0.15367410 -0.05437138 -0.08013013  0.03213279
## [3,]   0.15480942 -0.05437138  0.11624085  0.04435693 -0.01966494
## [4,]   0.05868855 -0.08013013  0.04435693  0.10497303 -0.02113884
## [5,]  -0.03361768  0.03213279 -0.01966494 -0.02113884  0.02033760
##
## $v[[366]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866263 -0.08265123  0.15480944  0.05869161 -0.03316736
## [2,]  -0.08265123  0.15367769 -0.05436940 -0.08012758  0.03246211
```

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## [3,]   0.15480944 -0.05436940  0.11624734  0.04433814 -0.01969271
## [4,]   0.05869161 -0.08012758  0.04433814  0.10513130 -0.02113373
## [5,]  -0.03316736  0.03246211 -0.01969271 -0.02113373  0.05284533
##
## $v[[367]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866406 -0.08265446  0.15481050  0.05869570 -0.03336342
## [2,]  -0.08265446  0.15367533 -0.05437001 -0.08012605  0.03221101
## [3,]   0.15481050 -0.05437001  0.11624414  0.04436530 -0.01960878
## [4,]   0.05869570 -0.08012605  0.04436530  0.10500877 -0.02085802
## [5,]  -0.03336342  0.03221101 -0.01960878 -0.02085802  0.03055403
##
## $v[[368]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865651 -0.08265816  0.15480985  0.05869059 -0.03357275
## [2,]  -0.08265816  0.15366955 -0.05437021 -0.08012625  0.03203231
## [3,]   0.15480985 -0.05437021  0.11624063  0.04435785 -0.01965973
## [4,]   0.05869059 -0.08012625  0.04435785  0.10506493 -0.02112862
## [5,]  -0.03357275  0.03203231 -0.01965973 -0.02112862  0.02482037
##
## $v[[369]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865916 -0.08265763  0.15481130  0.05868855 -0.03340835
## [2,]  -0.08265763  0.15367492 -0.05436065 -0.08013473  0.03207193
## [3,]   0.15481130 -0.05436065  0.11626517  0.04434100 -0.01968751
## [4,]   0.05868855 -0.08013473  0.04434100  0.10499345 -0.02116947
## [5,]  -0.03340835  0.03207193 -0.01968751 -0.02116947  0.03459771
##
## $v[[370]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865487 -0.08265763  0.15481242  0.05868753 -0.03371162
## [2,]  -0.08265763  0.15367066 -0.05436882 -0.08013044  0.03202915
## [3,]   0.15481242 -0.05436882  0.11623868  0.04435315 -0.01954884
## [4,]   0.05868753 -0.08013044  0.04435315  0.10499856 -0.02116947
## [5,]  -0.03371162  0.03202915 -0.01954884 -0.02116947  0.01595694
##
## $v[[371]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865610 -0.08265885  0.15481181  0.05868855 -0.03358500
## [2,]  -0.08265885  0.15366992 -0.05436920 -0.08012329  0.03204252
## [3,]   0.15481181 -0.05436920  0.11623889  0.04434907 -0.01958029
## [4,]   0.05868855 -0.08012329  0.04434907  0.10507514 -0.02118989
## [5,]  -0.03358500  0.03204252 -0.01958029 -0.02118989  0.02543305
##
## $v[[372]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865651 -0.08265771  0.15481830  0.05869263 -0.03368303
## [2,]  -0.08265771  0.15367059 -0.05436604 -0.08011951  0.03200679
## [3,]   0.15481830 -0.05436604  0.11625656  0.04435959 -0.01931112
## [4,]   0.05869263 -0.08011951  0.04435959  0.10494239 -0.02101630
## [5,]  -0.03368303  0.03200679 -0.01931112 -0.02101630  0.01614075
##
## $v[[373]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28866263 -0.08265703  0.15482588  0.05868651 -0.03336546
## [2,]  -0.08265703  0.15367897 -0.05436647 -0.08013340  0.03223695
## [3,]   0.15482588 -0.05436647  0.11627696  0.04432956 -0.01897557
## [4,]   0.05868651 -0.08013340  0.04432956  0.10522831 -0.02129711
## [5,]  -0.03336546  0.03223695 -0.01897557 -0.02129711  0.03662976
##
## $v[[374]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866018 -0.08265787  0.15481885  0.05868753 -0.03334810
## [2,]  -0.08265787  0.15367018 -0.05436756 -0.08012972  0.03210144
## [3,]   0.15481885 -0.05436756  0.11625356  0.04432211 -0.01931765
## [4,]   0.05868753 -0.08012972  0.04432211  0.10527426 -0.02130732
## [5,]  -0.03334810  0.03210144 -0.01931765 -0.02130732  0.04552892
##
## $v[[375]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865528 -0.08265883  0.15480613  0.05869059 -0.03368201
## [2,]  -0.08265883  0.15366928 -0.05437083 -0.08012462  0.03200025
## [3,]   0.15480613 -0.05437083  0.11625013  0.04435560 -0.01977951
## [4,]   0.05869059 -0.08012462  0.04435560  0.10493218 -0.02106736
## [5,]  -0.03368201  0.03200025 -0.01977951 -0.02106736  0.01716699
##
## $v[[376]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865508 -0.08265685  0.15481836  0.05868957 -0.03368507
## [2,]  -0.08265685  0.15367251 -0.05436455 -0.08011829  0.03206305
## [3,]   0.15481836 -0.05436455  0.11625695  0.04435029 -0.01927282
## [4,]   0.05868957 -0.08011829  0.04435029  0.10494750 -0.02110310
## [5,]  -0.03368507  0.03206305 -0.01927282 -0.02110310  0.01728442
##
## $v[[377]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865365 -0.08265771  0.15481481  0.05869263 -0.03374124
## [2,]  -0.08265771  0.15367251 -0.05436511 -0.08012298  0.03203670
## [3,]   0.15481481 -0.05436511  0.11624115  0.04435805 -0.01945377
## [4,]   0.05869263 -0.08012298  0.04435805  0.10491176 -0.02098567
## [5,]  -0.03374124  0.03203670 -0.01945377 -0.02098567  0.01486944
##
## $v[[378]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865508 -0.08265887  0.15481393  0.05869978 -0.03362176
## [2,]  -0.08265887  0.15366956 -0.05436865 -0.08012492  0.03201230
## [3,]   0.15481393 -0.05436865  0.11624220  0.04435234 -0.01941405
## [4,]   0.05869978 -0.08012492  0.04435234  0.10501898 -0.02062827
## [5,]  -0.03362176  0.03201230 -0.01941405 -0.02062827  0.02416684
##
## $v[[379]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865426 -0.08265963  0.15481230  0.05868957 -0.03372694
## [2,]  -0.08265963  0.15366858 -0.05436887 -0.08012390  0.03196257
## [3,]   0.15481230 -0.05436887  0.11623895  0.04435285 -0.01955139
## [4,]   0.05868957 -0.08012390  0.04435285  0.10496792 -0.02111331
## [5,]  -0.03372694  0.03196257 -0.01955139 -0.02111331  0.01525747
##
```

```
## $v[[380]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866202 -0.08265495  0.15480282  0.05868855 -0.03303563
## [2,]  -0.08265495  0.15367207 -0.05437258 -0.08013513  0.03222500
## [3,]   0.15480282 -0.05437258  0.11625821  0.04431854 -0.02034021
## [4,]   0.05868855 -0.08013513  0.04431854  0.10595331 -0.02162898
## [5,]  -0.03303563  0.03222500 -0.02034021 -0.02162898  0.08927422
##
## $v[[381]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866386 -0.08265912  0.15481987  0.05868753 -0.03309384
## [2,]  -0.08265912  0.15367007 -0.05436628 -0.08012043  0.03203425
## [3,]   0.15481987 -0.05436628  0.11625030  0.04435622 -0.01912211
## [4,]   0.05868753 -0.08012043  0.04435622  0.10521299 -0.02128690
## [5,]  -0.03309384  0.03203425 -0.01912211 -0.02128690  0.06137179
##
## $v[[382]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865753 -0.08265599  0.15481671  0.05869365 -0.03345430
## [2,]  -0.08265599  0.15367361 -0.05436336 -0.08012074  0.03214117
## [3,]   0.15481671 -0.05436336  0.11624540  0.04434580 -0.01931357
## [4,]   0.05869365 -0.08012074  0.04434580  0.10508025 -0.02102651
## [5,]  -0.03345430  0.03214117 -0.01931357 -0.02102651  0.03675740
##
## $v[[383]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865508 -0.08265834  0.15481234  0.05868855 -0.03366669
## [2,]  -0.08265834  0.15366995 -0.05436898 -0.08012707  0.03202476
## [3,]   0.15481234 -0.05436898  0.11623834  0.04435683 -0.01954904
## [4,]   0.05868855 -0.08012707  0.04435683  0.10504451 -0.02117968
## [5,]  -0.03366669  0.03202476 -0.01954904 -0.02117968  0.01866294
##
## $v[[384]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865732 -0.08265953  0.15481399  0.05869059 -0.03360032
## [2,]  -0.08265953  0.15366915 -0.05436986 -0.08012472  0.03195318
## [3,]   0.15481399 -0.05436986  0.11624445  0.04435315 -0.01943661
## [4,]   0.05869059 -0.08012472  0.04435315  0.10495260 -0.02107757
## [5,]  -0.03360032  0.03195318 -0.01943661 -0.02107757  0.02073074
##
## $v[[385]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865773 -0.08265656  0.15482371  0.05868957 -0.03349923
## [2,]  -0.08265656  0.15367563 -0.05436708 -0.08012727  0.03219151
## [3,]   0.15482371 -0.05436708  0.11626797  0.04433681 -0.01901744
## [4,]   0.05868957 -0.08012727  0.04433681  0.10501898 -0.02113884
## [5,]  -0.03349923  0.03219151 -0.01901744 -0.02113884  0.02966053
##
## $v[[386]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865365 -0.08265848  0.15481655  0.05869161 -0.03375757
## [2,]  -0.08265848  0.15366980 -0.05436602 -0.08012380  0.03199157
## [3,]   0.15481655 -0.05436602  0.11624530  0.04435887 -0.01941956
## [4,]   0.05869161 -0.08012380  0.04435887  0.10490665 -0.02102141
```

```
## [5,]  -0.03375757   0.03199157  -0.01941956  -0.02102141   0.01376662
##
## $v[[387]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865446  -0.08265863   0.15481142   0.05868957  -0.03372898
## [2,]  -0.08265863   0.15367007  -0.05436987  -0.08012268   0.03199096
## [3,]   0.15481142  -0.05436987   0.11623899   0.04435387  -0.01957212
## [4,]   0.05868957  -0.08012268   0.04435387   0.10491687  -0.02108778
## [5,]  -0.03372898   0.03199096  -0.01957212  -0.02108778   0.01475711
##
## $v[[388]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865794  -0.08265971   0.15480343   0.05868753  -0.03356049
## [2,]  -0.08265971   0.15366859  -0.05436894  -0.08012594   0.03196043
## [3,]   0.15480343  -0.05436894   0.11625339   0.04435591  -0.01991175
## [4,]   0.05868753  -0.08012594   0.04435591   0.10497813  -0.02116947
## [5,]  -0.03356049   0.03196043  -0.01991175  -0.02116947   0.02274747
##
## $v[[389]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865385  -0.08265902   0.15481032   0.05868957  -0.03373919
## [2,]  -0.08265902   0.15366892  -0.05436966  -0.08012564   0.03198371
## [3,]   0.15481032  -0.05436966   0.11624082   0.04435438  -0.01961613
## [4,]   0.05868957  -0.08012564   0.04435438   0.10491687  -0.02108778
## [5,]  -0.03373919   0.03198371  -0.01961613  -0.02108778   0.01471627
##
## $v[[390]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866386  -0.08265591   0.15481338   0.05868855  -0.03309282
## [2,]  -0.08265591   0.15367275  -0.05436957  -0.08012053   0.03217425
## [3,]   0.15481338  -0.05436957   0.11625083   0.04433692  -0.01942416
## [4,]   0.05868855  -0.08012053   0.04433692   0.10512620  -0.02122053
## [5,]  -0.03309282   0.03217425  -0.01942416  -0.02122053   0.06228570
##
## $v[[391]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865569  -0.08265822   0.15480993   0.05868957  -0.03366873
## [2,]  -0.08265822   0.15366962  -0.05437001  -0.08012574   0.03202139
## [3,]   0.15480993  -0.05437001   0.11624019   0.04435366  -0.01963788
## [4,]   0.05868957  -0.08012574   0.04435366   0.10493729  -0.02109799
## [5,]  -0.03366873   0.03202139  -0.01963788  -0.02109799   0.01764181
##
## $v[[392]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865610  -0.08265522   0.15482549   0.05869876  -0.03356764
## [2,]  -0.08265522   0.15367708  -0.05435806  -0.08010920   0.03217650
## [3,]   0.15482549  -0.05435806   0.11629535   0.04437531  -0.01873734
## [4,]   0.05869876  -0.08010920   0.04437531   0.10502408  -0.02070485
## [5,]  -0.03356764   0.03217650  -0.01873734  -0.02070485   0.02661246
##
## $v[[393]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865753  -0.08265789   0.15480782   0.05868855  -0.03357990
## [2,]  -0.08265789   0.15366980  -0.05436987  -0.08012023   0.03201342
```

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## [3,]   0.15480782 -0.05436987   0.11624347   0.04436837 -0.01973489
## [4,]   0.05868855 -0.08012023   0.04436837   0.10531000 -0.02130732
## [5,] -0.03357990   0.03201342 -0.01973489 -0.02130732   0.02342652
##
## $v[[394]]
##             [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865406 -0.08265603   0.15481677   0.05869365 -0.03371571
## [2,] -0.08265603   0.15367688 -0.05435915 -0.08011849   0.03213596
## [3,]   0.15481677 -0.05435915   0.11624931   0.04435938 -0.01932878
## [4,]   0.05869365 -0.08011849   0.04435938   0.10500877 -0.02097035
## [5,] -0.03371571   0.03213596 -0.01932878 -0.02097035   0.01661047
##
## $v[[395]]
##             [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865794 -0.08265767   0.15481203   0.05868651 -0.03364116
## [2,] -0.08265767   0.15367043 -0.05436847 -0.08012319   0.03203773
## [3,]   0.15481203 -0.05436847   0.11623887   0.04435407 -0.01954179
## [4,]   0.05868651 -0.08012319   0.04435407   0.10504451 -0.02120521
## [5,] -0.03364116   0.03203773 -0.01954179 -0.02120521   0.01795326
##
## $v[[396]]
##             [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865548 -0.08265726   0.15481583   0.05868855 -0.03371264
## [2,] -0.08265726   0.15367156 -0.05436594 -0.08013064   0.03200944
## [3,]   0.15481583 -0.05436594   0.11624253   0.04435315 -0.01947429
## [4,]   0.05868855 -0.08013064   0.04435315   0.10503430 -0.02116436
## [5,] -0.03371264   0.03200944 -0.01947429 -0.02116436   0.01545148
##
## $v[[397]]
##             [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865753 -0.08265315   0.15481015   0.05869263 -0.03352782
## [2,] -0.08265315   0.15367821 -0.05436812 -0.08012564   0.03227596
## [3,]   0.15481015 -0.05436812   0.11624974   0.04435938 -0.01970497
## [4,]   0.05869263 -0.08012564   0.04435938   0.10501387 -0.02102141
## [5,] -0.03352782   0.03227596 -0.01970497 -0.02102141   0.02728130
##
## $v[[398]]
##             [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865303 -0.08265948   0.15481070   0.05869467 -0.03375145
## [2,] -0.08265948   0.15366867 -0.05436942 -0.08012441   0.03197350
## [3,]   0.15481070 -0.05436942   0.11624111   0.04434917 -0.01962266
## [4,]   0.05869467 -0.08012441   0.04434917   0.10498324 -0.02092950
## [5,] -0.03375145   0.03197350 -0.01962266 -0.02092950   0.01522683
##
## $v[[399]]
##             [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865508 -0.08265861   0.15481205   0.05868855 -0.03369733
## [2,] -0.08265861   0.15366929 -0.05436878 -0.08012421   0.03200321
## [3,]   0.15481205 -0.05436878   0.11623822   0.04435693 -0.01955200
## [4,]   0.05868855 -0.08012421   0.04435693   0.10496282 -0.02113373
## [5,] -0.03369733   0.03200321 -0.01955200 -0.02113373   0.01642666
##
## $v[[400]]
##             [,1]         [,2]         [,3]         [,4]         [,5]
```

```
## [1,]   0.28865712 -0.08265558  0.15481493  0.05869876 -0.03349106
## [2,]  -0.08265558  0.15367415 -0.05436133 -0.08012421  0.03226064
## [3,]   0.15481493 -0.05436133  0.11625509  0.04434131 -0.01925005
## [4,]   0.05869876 -0.08012421  0.04434131  0.10510577 -0.02069975
## [5,]  -0.03349106  0.03226064 -0.01925005 -0.02069975  0.03387781
##
## $v[[401]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866345 -0.08265544  0.15481324  0.05868855 -0.03333993
## [2,]  -0.08265544  0.15367556 -0.05436591 -0.08011104  0.03212381
## [3,]   0.15481324 -0.05436591  0.11624564  0.04436602 -0.01949727
## [4,]   0.05868855 -0.08011104  0.04436602  0.10505472 -0.02117968
## [5,]  -0.03333993  0.03212381 -0.01949727 -0.02117968  0.03293837
##
## $v[[402]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865855 -0.08265025  0.15481851  0.05869059 -0.03350127
## [2,]  -0.08265025  0.15368579 -0.05436107 -0.08012196  0.03238052
## [3,]   0.15481851 -0.05436107  0.11625373  0.04435285 -0.01927027
## [4,]   0.05869059 -0.08012196  0.04435285  0.10506493 -0.02112862
## [5,]  -0.03350127  0.03238052 -0.01927027 -0.02112862  0.02709749
##
## $v[[403]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865630 -0.08265661  0.15481534  0.05869365 -0.03362278
## [2,]  -0.08265661  0.15367343 -0.05436518 -0.08012502  0.03211891
## [3,]   0.15481534 -0.05436518  0.11624052  0.04435499 -0.01940618
## [4,]   0.05869365 -0.08012502  0.04435499  0.10501898 -0.02101630
## [5,]  -0.03362278  0.03211891 -0.01940618 -0.02101630  0.02087369
##
## $v[[404]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865977 -0.08265223  0.15481985  0.05869467 -0.03345123
## [2,]  -0.08265223  0.15367866 -0.05435295 -0.08012298  0.03232548
## [3,]   0.15481985 -0.05435295  0.11629236  0.04435019 -0.01912374
## [4,]   0.05869467 -0.08012298  0.04435019  0.10494239 -0.02090908
## [5,]  -0.03345123  0.03232548 -0.01912374 -0.02090908  0.02922655
##
## $v[[405]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865589 -0.08265859  0.15481030  0.05868855 -0.03370141
## [2,]  -0.08265859  0.15366935 -0.05436977 -0.08012615  0.03198800
## [3,]   0.15481030 -0.05436977  0.11624012  0.04435407 -0.01960183
## [4,]   0.05868855 -0.08012615  0.04435407  0.10494239 -0.02112352
## [5,]  -0.03370141  0.03198800 -0.01960183 -0.02112352  0.01530342
##
## $v[[406]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865753 -0.08265661  0.15481093  0.05868446 -0.03350637
## [2,]  -0.08265661  0.15367098 -0.05436987 -0.08013176  0.03211594
## [3,]   0.15481093 -0.05436987  0.11624510  0.04436153 -0.01972100
## [4,]   0.05868446 -0.08013176  0.04436153  0.10531000 -0.02145028
## [5,]  -0.03350637  0.03211594 -0.01972100 -0.02145028  0.03141178
##
```

```
## $v[[407]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866549 -0.08265034  0.15481881  0.05869059 -0.03291412
## [2,]  -0.08265034  0.15368171 -0.05435340 -0.08012462  0.03255360
## [3,]   0.15481881 -0.05435340  0.11631954  0.04431404 -0.01935257
## [4,]   0.05869059 -0.08012462  0.04431404  0.10514662 -0.02116947
## [5,]  -0.03291412  0.03255360 -0.01935257 -0.02116947  0.07659686
##
## $v[[408]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865365 -0.08265993  0.15481203  0.05868957 -0.03372796
## [2,]  -0.08265993  0.15366856 -0.05436869 -0.08012666  0.03195552
## [3,]   0.15481203 -0.05436869  0.11623826  0.04435652 -0.01956078
## [4,]   0.05868957 -0.08012666  0.04435652  0.10511088 -0.02118479
## [5,]  -0.03372796  0.03195552 -0.01956078 -0.02118479  0.01616117
##
## $v[[409]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865977 -0.08265450  0.15481191  0.05869263 -0.03321739
## [2,]  -0.08265450  0.15367324 -0.05436749 -0.08013197  0.03236234
## [3,]   0.15481191 -0.05436749  0.11624430  0.04433804 -0.01956865
## [4,]   0.05869263 -0.08013197  0.04433804  0.10511599 -0.02107246
## [5,]  -0.03321739  0.03236234 -0.01956865 -0.02107246  0.05776209
##
## $v[[410]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866488 -0.08265260  0.15482190  0.05869570 -0.03298356
## [2,]  -0.08265260  0.15368001 -0.05435894 -0.08012839  0.03244087
## [3,]   0.15482190 -0.05435894  0.11628522  0.04434223 -0.01896618
## [4,]   0.05869570 -0.08012839  0.04434223  0.10524363 -0.02097545
## [5,]  -0.03298356  0.03244087 -0.01896618 -0.02097545  0.06731477
##
## $v[[411]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865589 -0.08265791  0.15481197  0.05868957 -0.03370345
## [2,]  -0.08265791  0.15366981 -0.05436923 -0.08012421  0.03200607
## [3,]   0.15481197 -0.05436923  0.11623864  0.04435550 -0.01955935
## [4,]   0.05868957 -0.08012421  0.04435550  0.10492708 -0.02109288
## [5,]  -0.03370345  0.03200607 -0.01955935 -0.02109288  0.01517067
##
## $v[[412]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865773 -0.08265638  0.15480684  0.05868957 -0.03358909
## [2,]  -0.08265638  0.15367254 -0.05437250 -0.08012768  0.03208286
## [3,]   0.15480684 -0.05437250  0.11624560  0.04435581 -0.01974326
## [4,]   0.05868957 -0.08012768  0.04435581  0.10492708 -0.02109288
## [5,]  -0.03358909  0.03208286 -0.01974326 -0.02109288  0.02067457
##
## $v[[413]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866488 -0.08265003  0.15480919  0.05869467 -0.03266088
## [2,]  -0.08265003  0.15368812 -0.05435491 -0.08014606  0.03279224
## [3,]   0.15480919 -0.05435491  0.11626589  0.04431466 -0.01990756
## [4,]   0.05869467 -0.08014606  0.04431466  0.10514662 -0.02101119
```

```
## [5,] -0.03266088  0.03279224 -0.01990756 -0.02101119  0.12599923
##
## $v[[414]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866753 -0.08265516  0.15481252  0.05868753 -0.03299581
## [2,]  -0.08265516  0.15367587 -0.05436848 -0.08012370  0.03235377
## [3,]   0.15481252 -0.05436848  0.11624621  0.04433712 -0.01958213
## [4,]   0.05868753 -0.08012370  0.04433712  0.10513130 -0.02124605
## [5,]  -0.03299581  0.03235377 -0.01958213 -0.02124605  0.06603836
##
## $v[[415]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866059 -0.08265475  0.15481471  0.05869059 -0.03336954
## [2,]  -0.08265475  0.15367255 -0.05436807 -0.08011971  0.03219600
## [3,]   0.15481471 -0.05436807  0.11624402  0.04433998 -0.01941599
## [4,]   0.05869059 -0.08011971  0.04433998  0.10505472 -0.02112862
## [5,]  -0.03336954  0.03219600 -0.01941599 -0.02112862  0.03552694
##
## $v[[416]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865937 -0.08265479  0.15481493  0.05869059 -0.03338792
## [2,]  -0.08265479  0.15367666 -0.05436355 -0.08014432  0.03229240
## [3,]   0.15481493 -0.05436355  0.11624287  0.04434968 -0.01937688
## [4,]   0.05869059 -0.08014432  0.04434968  0.10558571 -0.02139412
## [5,]  -0.03338792  0.03229240 -0.01937688 -0.02139412  0.04309353
##
## $v[[417]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865467 -0.08265920  0.15480740  0.05868957 -0.03368814
## [2,]  -0.08265920  0.15366911 -0.05437041 -0.08012227  0.03197819
## [3,]   0.15480740 -0.05437041  0.11624781  0.04435387 -0.01975194
## [4,]   0.05868957 -0.08012227  0.04435387  0.10497813 -0.02111841
## [5,]  -0.03368814  0.03197819 -0.01975194 -0.02111841  0.01757544
##
## $v[[418]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866284 -0.08265885  0.15480989  0.05868957 -0.03319697
## [2,]  -0.08265885  0.15367019 -0.05436918 -0.08011839  0.03200158
## [3,]   0.15480989 -0.05436918  0.11624017  0.04435877 -0.01970885
## [4,]   0.05868957 -0.08011839  0.04435877  0.10520278 -0.02123074
## [5,]  -0.03319697  0.03200158 -0.01970885 -0.02123074  0.05132895
##
## $v[[419]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865528 -0.08265922  0.15481054  0.05868855 -0.03367997
## [2,]  -0.08265922  0.15367096 -0.05436880 -0.08011900  0.03197023
## [3,]   0.15481054 -0.05436880  0.11623949  0.04435581 -0.01961603
## [4,]   0.05868855 -0.08011900  0.04435581  0.10497303 -0.02113884
## [5,]  -0.03367997  0.03197023 -0.01961603 -0.02113884  0.01735079
##
## $v[[420]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865732 -0.08265469  0.15481992  0.05869161 -0.03348493
## [2,]  -0.08265469  0.15367771 -0.05436262 -0.08012942  0.03224696
```

```
## [3,]  0.15481992 -0.05436262  0.11625517  0.04434662 -0.01907789
## [4,]  0.05869161 -0.08012942  0.04434662  0.10497813 -0.02104693
## [5,] -0.03348493  0.03224696 -0.01907789 -0.02104693  0.03237675
##
## $v[[421]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]  0.28865589 -0.08265646  0.15482106  0.05869365 -0.03366771
## [2,] -0.08265646  0.15367200 -0.05436263 -0.08012349  0.03207775
## [3,]  0.15482106 -0.05436263  0.11627049  0.04437021 -0.01921013
## [4,]  0.05869365 -0.08012349  0.04437021  0.10494750 -0.02096014
## [5,] -0.03366771  0.03207775 -0.01921013 -0.02096014  0.01742227
##
## $v[[422]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]  0.28866182 -0.08264962  0.15481171  0.05869059 -0.03319289
## [2,] -0.08264962  0.15368326 -0.05436233 -0.08012962  0.03257423
## [3,]  0.15481171 -0.05436233  0.11628230  0.04431895 -0.01965105
## [4,]  0.05869059 -0.08012962  0.04431895  0.10531000 -0.02125116
## [5,] -0.03319289  0.03257423 -0.01965105 -0.02125116  0.05394305
##
## $v[[423]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]  0.28865487 -0.08265979  0.15480791  0.05869467 -0.03365444
## [2,] -0.08265979  0.15366860 -0.05436898 -0.08012717  0.03196267
## [3,]  0.15480791 -0.05436898  0.11624563  0.04434917 -0.01976093
## [4,]  0.05869467 -0.08012717  0.04434917  0.10507514 -0.02097545
## [5,] -0.03365444  0.03196267 -0.01976093 -0.02097545  0.02095028
##
## $v[[424]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]  0.28865610 -0.08265908  0.15480787  0.05868855 -0.03361564
## [2,] -0.08265908  0.15366876 -0.05436968 -0.08012063  0.03198830
## [3,]  0.15480787 -0.05436968  0.11624399  0.04435857 -0.01974653
## [4,]  0.05868855 -0.08012063  0.04435857  0.10536106 -0.02133285
## [5,] -0.03361564  0.03198830 -0.01974653 -0.02133285  0.02184888
##
## $v[[425]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]  0.28866631 -0.08265230  0.15480842  0.05869263 -0.03267313
## [2,] -0.08265230  0.15367566 -0.05436861 -0.08013483  0.03263917
## [3,]  0.15480842 -0.05436861  0.11626137  0.04432568 -0.02006022
## [4,]  0.05869263 -0.08013483  0.04432568  0.10531000 -0.02118479
## [5,] -0.03267313  0.03263917 -0.02006022 -0.02118479  0.12048511
##
## $v[[426]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]  0.28866610 -0.08265330  0.15480272  0.05868753 -0.03303359
## [2,] -0.08265330  0.15367392 -0.05437170 -0.08014208  0.03237940
## [3,]  0.15480272 -0.05437170  0.11625589  0.04433988 -0.02011128
## [4,]  0.05868753 -0.08014208  0.04433988  0.10542743 -0.02138391
## [5,] -0.03303359  0.03237940 -0.02011128 -0.02138391  0.06508360
##
## $v[[427]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
```

```
## [1,]   0.28865732 -0.08265822  0.15480768  0.05868957 -0.03362278
## [2,]  -0.08265822  0.15366997 -0.05436987 -0.08012564  0.03201638
## [3,]   0.15480768 -0.05436987  0.11624268  0.04435520 -0.01970088
## [4,]   0.05868957 -0.08012564  0.04435520  0.10491687 -0.02108778
## [5,]  -0.03362278  0.03201638 -0.01970088 -0.02108778  0.01866805
##
## $v[[428]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866222 -0.08265383  0.15481089  0.05869161 -0.03316123
## [2,]  -0.08265383  0.15367986 -0.05436571 -0.08013871  0.03250367
## [3,]   0.15481089 -0.05436571  0.11625506  0.04430833 -0.01950523
## [4,]   0.05869161 -0.08013871  0.04430833  0.10526405 -0.02120010
## [5,]  -0.03316123  0.03250367 -0.01950523 -0.02120010  0.06094291
##
## $v[[429]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865814 -0.08265295  0.15481013  0.05868855 -0.03342673
## [2,]  -0.08265295  0.15367888 -0.05436785 -0.08014085  0.03232507
## [3,]   0.15481013 -0.05436785  0.11624693  0.04433079 -0.01969925
## [4,]   0.05868855 -0.08014085  0.04433079  0.10511599 -0.02121031
## [5,]  -0.03342673  0.03232507 -0.01969925 -0.02121031  0.03939703
##
## $v[[430]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866100 -0.08265174  0.15482614  0.05869059 -0.03340324
## [2,]  -0.08265174  0.15368210 -0.05435586 -0.08012656  0.03233334
## [3,]   0.15482614 -0.05435586  0.11630693  0.04436622 -0.01892635
## [4,]   0.05869059 -0.08012656  0.04436622  0.10504451 -0.02112352
## [5,]  -0.03340324  0.03233334 -0.01892635 -0.02112352  0.03095737
##
## $v[[431]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865283 -0.08266030  0.15481234  0.05868855 -0.03376983
## [2,]  -0.08266030  0.15366857 -0.05436855 -0.08012533  0.03193847
## [3,]   0.15481234 -0.05436855  0.11623808  0.04435479 -0.01954628
## [4,]   0.05868855 -0.08012533  0.04435479  0.10497303 -0.02114394
## [5,]  -0.03376983  0.03193847 -0.01954628 -0.02114394  0.01387894
##
## $v[[432]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866365 -0.08265156  0.15482935  0.05869570 -0.03304687
## [2,]  -0.08265156  0.15367927 -0.05435158 -0.08013115  0.03249519
## [3,]   0.15482935 -0.05435158  0.11628512  0.04433743 -0.01835503
## [4,]   0.05869570 -0.08013115  0.04433743  0.10514151 -0.02095503
## [5,]  -0.03304687  0.03249519 -0.01835503 -0.02095503  0.06509892
##
## $v[[433]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866243 -0.08265812  0.15481124  0.05869059 -0.03342468
## [2,]  -0.08265812  0.15367039 -0.05436942 -0.08012533  0.03201822
## [3,]   0.15481124 -0.05436942  0.11624116  0.04435387 -0.01955986
## [4,]   0.05869059 -0.08012533  0.04435387  0.10518747 -0.02120010
## [5,]  -0.03342468  0.03201822 -0.01955986 -0.02120010  0.02813394
##
```

```
## $v[[434]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865528 -0.08265814  0.15481665  0.05868855 -0.03369733
## [2,]  -0.08265814  0.15367029 -0.05436613 -0.08012758  0.03200576
## [3,]   0.15481665 -0.05436613  0.11624346  0.04435366 -0.01941221
## [4,]   0.05868855 -0.08012758  0.04435366  0.10492197 -0.02111841
## [5,]  -0.03369733  0.03200576 -0.01941221 -0.02111841  0.01599779
##
## $v[[435]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865344 -0.08265720  0.15481618  0.05869161 -0.03371877
## [2,]  -0.08265720  0.15367308 -0.05436305 -0.08012645  0.03209879
## [3,]   0.15481618 -0.05436305  0.11624520  0.04435479 -0.01934073
## [4,]   0.05869161 -0.08012645  0.04435479  0.10503940 -0.02107757
## [5,]  -0.03371877  0.03209879 -0.01934073 -0.02107757  0.01751417
##
## $v[[436]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865467 -0.08265904  0.15481593  0.05869059 -0.03370958
## [2,]  -0.08265904  0.15366918 -0.05436830 -0.08012492  0.03198595
## [3,]   0.15481593 -0.05436830  0.11624413  0.04435172 -0.01941997
## [4,]   0.05869059 -0.08012492  0.04435172  0.10495260 -0.02107757
## [5,]  -0.03370958  0.03198595 -0.01941997 -0.02107757  0.01585483
##
## $v[[437]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866100 -0.08265658  0.15482183  0.05869059 -0.03344000
## [2,]  -0.08265658  0.15367101 -0.05436230 -0.08012104  0.03207918
## [3,]   0.15482183 -0.05436230  0.11626621  0.04435387 -0.01918092
## [4,]   0.05869059 -0.08012104  0.04435387  0.10516704 -0.02118479
## [5,]  -0.03344000  0.03207918 -0.01918092 -0.02118479  0.03006899
##
## $v[[438]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866508 -0.08265219  0.15481887  0.05868855 -0.03295496
## [2,]  -0.08265219  0.15367638 -0.05436447 -0.08012890  0.03252317
## [3,]   0.15481887 -0.05436447  0.11625699  0.04432691 -0.01913998
## [4,]   0.05868855 -0.08012890  0.04432691  0.10517725 -0.02124605
## [5,]  -0.03295496  0.03252317 -0.01913998 -0.02124605  0.07396234
##
## $v[[439]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865487 -0.08265895  0.15481593  0.05869263 -0.03370958
## [2,]  -0.08265895  0.15366917 -0.05436778 -0.08012370  0.03198248
## [3,]   0.15481593 -0.05436778  0.11624236  0.04435897 -0.01942242
## [4,]   0.05869263 -0.08012370  0.04435897  0.10491176 -0.02098567
## [5,]  -0.03370958  0.03198248 -0.01942242 -0.02098567  0.01558934
##
## $v[[440]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08265906  0.15481710  0.05868957 -0.03373000
## [2,]  -0.08265906  0.15366907 -0.05436659 -0.08012564  0.03198330
## [3,]   0.15481710 -0.05436659  0.11624983  0.04435040 -0.01937177
## [4,]   0.05868957 -0.08012564  0.04435040  0.10491687 -0.02108778
```

```
## [5,]  -0.03373000   0.03198330  -0.01937177  -0.02108778   0.01511962
##
## $v[[441]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865671  -0.08265799   0.15480580   0.05869059  -0.03363504
## [2,]  -0.08265799   0.15366958  -0.05437117  -0.08012564   0.03201986
## [3,]   0.15480580  -0.05437117   0.11624801   0.04435234  -0.01976940
## [4,]   0.05869059  -0.08012564   0.04435234   0.10494239  -0.02107246
## [5,]  -0.03363504   0.03201986  -0.01976940  -0.02107246   0.01868847
##
## $v[[442]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866141  -0.08265420   0.15481418   0.05869263  -0.03313570
## [2,]  -0.08265420   0.15367363  -0.05436926  -0.08012227   0.03235479
## [3,]   0.15481418  -0.05436926   0.11627178   0.04432354  -0.01949666
## [4,]   0.05869263  -0.08012227   0.04432354   0.10518747  -0.02112352
## [5,]  -0.03313570   0.03235479  -0.01949666  -0.02112352   0.06602304
##
## $v[[443]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865406  -0.08265914   0.15481091   0.05868855  -0.03373715
## [2,]  -0.08265914   0.15366889  -0.05436933  -0.08012319   0.03198003
## [3,]   0.15481091  -0.05436933   0.11623949   0.04435285  -0.01959091
## [4,]   0.05868855  -0.08012319   0.04435285   0.10507514  -0.02118989
## [5,]  -0.03373715   0.03198003  -0.01959091  -0.02118989   0.01494092
##
## $v[[444]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866386  -0.08265107   0.15481728   0.05869059  -0.03299887
## [2,]  -0.08265107   0.15367740  -0.05436183  -0.08012594   0.03255064
## [3,]   0.15481728  -0.05436183   0.11628785   0.04431976  -0.01927303
## [4,]   0.05869059  -0.08012594   0.04431976   0.10520789  -0.02120521
## [5,]  -0.03299887   0.03255064  -0.01927303  -0.02120521   0.06988292
##
## $v[[445]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865814  -0.08265377   0.15482672   0.05869059  -0.03349004
## [2,]  -0.08265377   0.15367671  -0.05435385  -0.08012513   0.03226003
## [3,]   0.15482672  -0.05435385   0.11628365   0.04433998  -0.01883282
## [4,]   0.05869059  -0.08012513   0.04433998   0.10524873  -0.02122053
## [5,]  -0.03349004   0.03226003  -0.01883282  -0.02122053   0.02926740
##
## $v[[446]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865569  -0.08265844   0.15481222   0.05868753  -0.03367690
## [2,]  -0.08265844   0.15367033  -0.05436882  -0.08012768   0.03200903
## [3,]   0.15481222  -0.05436882   0.11623865   0.04435499  -0.01955455
## [4,]   0.05868753  -0.08012768   0.04435499   0.10497813  -0.02116947
## [5,]  -0.03367690   0.03200903  -0.01955455  -0.02116947   0.01712103
##
## $v[[447]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866590  -0.08265573   0.15480115   0.05868753  -0.03272827
## [2,]  -0.08265573   0.15367047  -0.05437321  -0.08011951   0.03230383
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## [3,]   0.15480115 -0.05437321  0.11625659  0.04432824 -0.02051912
## [4,]   0.05868753 -0.08011951  0.04432824  0.10568271 -0.02152176
## [5,]  -0.03272827  0.03230383 -0.02051912 -0.02152176  0.10682237
##
## $v[[448]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865446 -0.08265914  0.15481279  0.05868753 -0.03372388
## [2,]  -0.08265914  0.15366958 -0.05436824 -0.08012584  0.03197942
## [3,]   0.15481279 -0.05436824  0.11623857  0.04435428 -0.01952933
## [4,]   0.05868753 -0.08012584  0.04435428  0.10493729 -0.02114905
## [5,]  -0.03372388  0.03197942 -0.01952933 -0.02114905  0.01507877
##
## $v[[449]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865875 -0.08265424  0.15481499  0.05869263 -0.03345123
## [2,]  -0.08265424  0.15367455 -0.05436846 -0.08011573  0.03225952
## [3,]   0.15481499 -0.05436846  0.11625742  0.04432334 -0.01929937
## [4,]   0.05869263 -0.08011573  0.04432334  0.10508535 -0.02107246
## [5,]  -0.03345123  0.03225952 -0.01929937 -0.02107246  0.03301495
##
## $v[[450]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866243 -0.08265387  0.15481526  0.05868855 -0.03317859
## [2,]  -0.08265387  0.15367419 -0.05436883 -0.08012298  0.03236388
## [3,]   0.15481526 -0.05436883  0.11625491  0.04432865 -0.01953342
## [4,]   0.05868855 -0.08012298  0.04432865  0.10511599 -0.02121542
## [5,]  -0.03317859  0.03236388 -0.01953342 -0.02121542  0.05440256
##
## $v[[451]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265677  0.15482445  0.05869161 -0.03354007
## [2,]  -0.08265677  0.15367498 -0.05435793 -0.08014004  0.03215679
## [3,]   0.15482445 -0.05435793  0.11627452  0.04432773 -0.01892452
## [4,]   0.05869161 -0.08014004  0.04432773  0.10512109 -0.02112862
## [5,]  -0.03354007  0.03215679 -0.01892452 -0.02112862  0.02912955
##
## $v[[452]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865569 -0.08265217  0.15481567  0.05869570 -0.03361461
## [2,]  -0.08265217  0.15369452 -0.05435913 -0.08011880  0.03239349
## [3,]   0.15481567 -0.05435913  0.11625257  0.04434907 -0.01935196
## [4,]   0.05869570 -0.08011880  0.04434907  0.10493729 -0.02082228
## [5,]  -0.03361461  0.03239349 -0.01935196 -0.02082228  0.02242581
##
## $v[[453]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866733 -0.08264938  0.15482725  0.05869467 -0.03282222
## [2,]  -0.08264938  0.15368883 -0.05433443 -0.08011022  0.03248958
## [3,]   0.15482725 -0.05433443  0.11631990  0.04436408 -0.01885202
## [4,]   0.05869467 -0.08011022  0.04436408  0.10552444 -0.02117457
## [5,]  -0.03282222  0.03248958 -0.01885202 -0.02117457  0.09818359
##
## $v[[454]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28865855 -0.08265513  0.15481089  0.05869365 -0.03347370
## [2,]  -0.08265513  0.15368056 -0.05436692 -0.08013769  0.03223838
## [3,]   0.15481089 -0.05436692  0.11624615  0.04435162 -0.01955282
## [4,]   0.05869365 -0.08013769  0.04435162  0.10515173 -0.02104183
## [5,]  -0.03347370  0.03223838 -0.01955282 -0.02104183  0.03030895
##
## $v[[455]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265828  0.15481201  0.05868855 -0.03361461
## [2,]  -0.08265828  0.15366953 -0.05436851 -0.08012717  0.03200995
## [3,]   0.15481201 -0.05436851  0.11623873  0.04435652 -0.01956967
## [4,]   0.05868855 -0.08012717  0.04435652  0.10496282 -0.02113884
## [5,]  -0.03361461  0.03200995 -0.01956967 -0.02113884  0.02029165
##
## $v[[456]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866182 -0.08265448  0.15480674  0.05869365 -0.03314489
## [2,]  -0.08265448  0.15367354 -0.05437004 -0.08012890  0.03236173
## [3,]   0.15480674 -0.05437004  0.11625000  0.04432058 -0.01981045
## [4,]   0.05869365 -0.08012890  0.04432058  0.10524363 -0.02108778
## [5,]  -0.03314489  0.03236173 -0.01981045 -0.02108778  0.06306687
##
## $v[[457]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265832  0.15481097  0.05868753 -0.03350433
## [2,]  -0.08265832  0.15366953 -0.05436903 -0.08011767  0.03208500
## [3,]   0.15481097 -0.05436903  0.11623911  0.04436551 -0.01964687
## [4,]   0.05868753 -0.08011767  0.04436551  0.10557039 -0.02146560
## [5,]  -0.03350433  0.03208500 -0.01964687 -0.02146560  0.03706885
##
## $v[[458]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865508 -0.08265746  0.15481209  0.05868957 -0.03368405
## [2,]  -0.08265746  0.15367088 -0.05436893 -0.08012819  0.03204610
## [3,]   0.15481209 -0.05436893  0.11623828  0.04435581 -0.01955731
## [4,]   0.05868957 -0.08012819  0.04435581  0.10494750 -0.02110310
## [5,]  -0.03368405  0.03204610 -0.01955731 -0.02110310  0.01714656
##
## $v[[459]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866488 -0.08265507  0.15481111  0.05868753 -0.03310711
## [2,]  -0.08265507  0.15367330 -0.05436840 -0.08012533  0.03221142
## [3,]   0.15481111 -0.05436840  0.11624318  0.04435305 -0.01960755
## [4,]   0.05868753 -0.08012533  0.04435305  0.10514151 -0.02125116
## [5,]  -0.03310711  0.03221142 -0.01960755 -0.02125116  0.05674095
##
## $v[[460]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866161 -0.08265285  0.15481224  0.05869263 -0.03306422
## [2,]  -0.08265285  0.15367669 -0.05436463 -0.08014259  0.03246466
## [3,]   0.15481224 -0.05436463  0.11626292  0.04432722 -0.01980473
## [4,]   0.05869263 -0.08014259  0.04432722  0.10539169 -0.02122563
## [5,]  -0.03306422  0.03246466 -0.01980473 -0.02122563  0.07894036
##
```

```
## $v[[461]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866141 -0.08265303  0.15480707  0.05869570 -0.03293965
## [2,]  -0.08265303  0.15367689 -0.05436735 -0.08013513  0.03253226
## [3,]   0.15480707 -0.05436735  0.11625199  0.04432436 -0.02000038
## [4,]   0.05869570 -0.08013513  0.04432436  0.10518236 -0.02094482
## [5,]  -0.03293965  0.03253226 -0.02000038 -0.02094482  0.09915877
##
## $v[[462]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865426 -0.08265959  0.15481461  0.05869161 -0.03370243
## [2,]  -0.08265959  0.15366896 -0.05436812 -0.08012676  0.03196308
## [3,]   0.15481461 -0.05436812  0.11624064  0.04435193 -0.01944376
## [4,]   0.05869161 -0.08012676  0.04435193  0.10495771 -0.02103672
## [5,]  -0.03370243  0.03196308 -0.01944376 -0.02103672  0.01712614
##
## $v[[463]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865834 -0.08265281  0.15482028  0.05870182 -0.03339609
## [2,]  -0.08265281  0.15368082 -0.05435047 -0.08011614  0.03244638
## [3,]   0.15482028 -0.05435047  0.11627660  0.04435407 -0.01890757
## [4,]   0.05870182 -0.08011614  0.04435407  0.10508025 -0.02055679
## [5,]  -0.03339609  0.03244638 -0.01890757 -0.02055679  0.04077556
##
## $v[[464]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865834 -0.08265381  0.15481252  0.05869467 -0.03343387
## [2,]  -0.08265381  0.15367758 -0.05436437 -0.08012441  0.03230077
## [3,]   0.15481252 -0.05436437  0.11624666  0.04434417 -0.01953526
## [4,]   0.05869467 -0.08012441  0.04434417  0.10505472 -0.02096524
## [5,]  -0.03343387  0.03230077 -0.01953526 -0.02096524  0.03509296
##
## $v[[465]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865467 -0.08265797  0.15481091  0.05868753 -0.03373307
## [2,]  -0.08265797  0.15367017 -0.05436998 -0.08012574  0.03200301
## [3,]   0.15481091 -0.05436998  0.11623931  0.04435714 -0.01958223
## [4,]   0.05868753 -0.08012574  0.04435714  0.10491687 -0.02113884
## [5,]  -0.03373307  0.03200301 -0.01958223 -0.02113884  0.01436908
##
## $v[[466]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865937 -0.08265961  0.15481861  0.05868753 -0.03330930
## [2,]  -0.08265961  0.15366937 -0.05436828 -0.08012308  0.03198575
## [3,]   0.15481861 -0.05436828  0.11624367  0.04436459 -0.01914692
## [4,]   0.05868753 -0.08012308  0.04436459  0.10548870 -0.02142475
## [5,]  -0.03330930  0.03198575 -0.01914692 -0.02142475  0.05419833
##
## $v[[467]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866917 -0.08264774  0.15481540  0.05869059 -0.03270274
## [2,]  -0.08264774  0.15369101 -0.05435394 -0.08013738  0.03272301
## [3,]   0.15481540 -0.05435394  0.11629719  0.04429291 -0.01935002
## [4,]   0.05869059 -0.08013738  0.04429291  0.10533042 -0.02126648
```

```
## [5,]  -0.03270274   0.03272301  -0.01935002  -0.02126648   0.08964182
##
## $v[[468]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865324  -0.08265942   0.15481144   0.05868855  -0.03375553
## [2,]  -0.08265942   0.15366867  -0.05436911  -0.08012564   0.03197125
## [3,]   0.15481144  -0.05436911   0.11623904   0.04435683  -0.01958049
## [4,]   0.05868855  -0.08012564   0.04435683   0.10496282  -0.02113884
## [5,]  -0.03375553   0.03197125  -0.01958049  -0.02113884   0.01438951
##
## $v[[469]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865324  -0.08265914   0.15481099   0.05868855  -0.03377187
## [2,]  -0.08265914   0.15366891  -0.05436957  -0.08012594   0.03197370
## [3,]   0.15481099  -0.05436957   0.11623991   0.04435714  -0.01958039
## [4,]   0.05868855  -0.08012594   0.04435714   0.10492197  -0.02111331
## [5,]  -0.03377187   0.03197370  -0.01958039  -0.02111331   0.01327647
##
## $v[[470]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865610  -0.08265844   0.15480609   0.05868957  -0.03356560
## [2,]  -0.08265844   0.15366929  -0.05437085  -0.08012237   0.03203579
## [3,]   0.15480609  -0.05437085   0.11624876   0.04435356  -0.01989694
## [4,]   0.05868957  -0.08012237   0.04435356   0.10503940  -0.02114905
## [5,]  -0.03356560   0.03203579  -0.01989694  -0.02114905   0.02702091
##
## $v[[471]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865344  -0.08265891   0.15481011   0.05869059  -0.03375655
## [2,]  -0.08265891   0.15366913  -0.05437014  -0.08012513   0.03198595
## [3,]   0.15481011  -0.05437014   0.11624171   0.04435377  -0.01961746
## [4,]   0.05869059  -0.08012513   0.04435377   0.10491176  -0.02105714
## [5,]  -0.03375655   0.03198595  -0.01961746  -0.02105714   0.01401679
##
## $v[[472]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865732  -0.08265699   0.15481638   0.05869365  -0.03350842
## [2,]  -0.08265699   0.15367546  -0.05436184  -0.08013064   0.03213432
## [3,]   0.15481638  -0.05436184   0.11624629   0.04435172  -0.01931091
## [4,]   0.05869365  -0.08013064   0.04435172   0.10512109  -0.02102651
## [5,]  -0.03350842   0.03213432  -0.01931091  -0.02102651   0.02940015
##
## $v[[473]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865732  -0.08265513   0.15481769   0.05869059  -0.03359930
## [2,]  -0.08265513   0.15367377  -0.05436370  -0.08012635   0.03212810
## [3,]   0.15481769  -0.05436370   0.11624660   0.04435999  -0.01937300
## [4,]   0.05869059  -0.08012635   0.04435999   0.10506493  -0.02113373
## [5,]  -0.03359930   0.03212810  -0.01937300  -0.02113373   0.02183866
##
## $v[[474]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865998  -0.08265360   0.15481342   0.05869365  -0.03352782
## [2,]  -0.08265360   0.15367575  -0.05435997  -0.08012533   0.03220100
```

```
## [3,]   0.15481342 -0.05435997  0.11628098  0.04434743 -0.01938096
## [4,]   0.05869365 -0.08012533  0.04434743  0.10516194 -0.02106736
## [5,]  -0.03352782  0.03220100 -0.01938096 -0.02106736  0.02299254
##
## $v[[475]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866202 -0.08264966  0.15481661  0.05869263 -0.03303359
## [2,]  -0.08264966  0.15368472 -0.05435602 -0.08013901  0.03271157
## [3,]   0.15481661 -0.05435602  0.11628059  0.04431598 -0.01941109
## [4,]   0.05869263 -0.08013901  0.04431598  0.10532021 -0.02117457
## [5,]  -0.03303359  0.03271157 -0.01941109 -0.02117457  0.07676535
##
## $v[[476]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865712 -0.08265983  0.15480552  0.05868957 -0.03353497
## [2,]  -0.08265983  0.15366878 -0.05436888 -0.08012370  0.03193990
## [3,]   0.15480552 -0.05436888  0.11624754  0.04435846 -0.01990062
## [4,]   0.05868957 -0.08012370  0.04435846  0.10502919 -0.02114394
## [5,]  -0.03353497  0.03193990 -0.01990062 -0.02114394  0.02812373
##
## $v[[477]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865855 -0.08265840  0.15480903  0.05868855 -0.03339916
## [2,]  -0.08265840  0.15366921 -0.05437004 -0.08012431  0.03202026
## [3,]   0.15480903 -0.05437004  0.11624106  0.04435162 -0.01971130
## [4,]   0.05868855 -0.08012431  0.04435162  0.10588183 -0.02159324
## [5,]  -0.03339916  0.03202026 -0.01971130 -0.02159324  0.04297609
##
## $v[[478]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265507  0.15482731  0.05869570 -0.03362380
## [2,]  -0.08265507  0.15368102 -0.05435676 -0.08013207  0.03213167
## [3,]   0.15482731 -0.05435676  0.11630152  0.04438757 -0.01895035
## [4,]   0.05869570 -0.08013207  0.04438757  0.10494750 -0.02082739
## [5,]  -0.03362380  0.03213167 -0.01895035 -0.02082739  0.01947985
##
## $v[[479]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865589 -0.08265548  0.15481695  0.05869570 -0.03357683
## [2,]  -0.08265548  0.15368093 -0.05435844 -0.08012308  0.03227912
## [3,]   0.15481695 -0.05435844  0.11624895  0.04435754 -0.01923392
## [4,]   0.05869570 -0.08012308  0.04435754  0.10507004 -0.02088866
## [5,]  -0.03357683  0.03227912 -0.01923392 -0.02088866  0.02677073
##
## $v[[480]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08265736  0.15481536  0.05869161 -0.03372183
## [2,]  -0.08265736  0.15367155 -0.05436569 -0.08012390  0.03204988
## [3,]   0.15481536 -0.05436569  0.11624123  0.04435601 -0.01942497
## [4,]   0.05869161 -0.08012390  0.04435601  0.10494750 -0.02104183
## [5,]  -0.03372183  0.03204988 -0.01942497 -0.02104183  0.01587525
##
## $v[[481]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28865548 -0.08265497  0.15481477  0.05869263 -0.03364219
## [2,]  -0.08265497  0.15367594 -0.05436463 -0.08012451  0.03218487
## [3,]   0.15481477 -0.05436463  0.11624334  0.04435458 -0.01941589
## [4,]   0.05869263 -0.08012451  0.04435458  0.10493218 -0.02098056
## [5,]  -0.03364219  0.03218487 -0.01941589 -0.02098056  0.02013337
##
## $v[[482]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866304 -0.08265671  0.15481967  0.05868548 -0.03351556
## [2,]  -0.08265671  0.15367094 -0.05436515 -0.08012839  0.03205468
## [3,]   0.15481967 -0.05436515  0.11624851  0.04434825 -0.01933859
## [4,]   0.05868548 -0.08012839  0.04434825  0.10510067 -0.02130222
## [5,]  -0.03351556  0.03205468 -0.01933859 -0.02130222  0.02059288
##
## $v[[483]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865651 -0.08265757  0.15481166  0.05868548 -0.03365035
## [2,]  -0.08265757  0.15367034 -0.05436926 -0.08013227  0.03202925
## [3,]   0.15481166 -0.05436926  0.11623886  0.04436408 -0.01956313
## [4,]   0.05868548 -0.08013227  0.04436408  0.10527426 -0.02134817
## [5,]  -0.03365035  0.03202925 -0.01956313 -0.02134817  0.01888759
##
## $v[[484]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865814 -0.08265893  0.15480145  0.05868957 -0.03354416
## [2,]  -0.08265893  0.15366905 -0.05437054 -0.08012605  0.03200423
## [3,]   0.15480145 -0.05437054  0.11626161  0.04434641 -0.01996719
## [4,]   0.05868957 -0.08012605  0.04434641  0.10504961 -0.02115415
## [5,]  -0.03354416  0.03200423 -0.01996719 -0.02115415  0.02442213
##
## $v[[485]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865732 -0.08265322  0.15481751  0.05868855 -0.03360032
## [2,]  -0.08265322  0.15367839 -0.05436142 -0.08012696  0.03221407
## [3,]   0.15481751 -0.05436142  0.11625352  0.04435581 -0.01932500
## [4,]   0.05868855 -0.08012696  0.04435581  0.10506493 -0.02120521
## [5,]  -0.03360032  0.03221407 -0.01932500 -0.02120521  0.02115961
##
## $v[[486]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866406 -0.08264925  0.15481258  0.05869161 -0.03311018
## [2,]  -0.08264925  0.15368400 -0.05436165 -0.08012778  0.03256075
## [3,]   0.15481258 -0.05436165  0.11625884  0.04433048 -0.01947470
## [4,]   0.05869161 -0.08012778  0.04433048  0.10530490 -0.02121031
## [5,]  -0.03311018  0.03256075 -0.01947470 -0.02121031  0.05873727
##
## $v[[487]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866079 -0.08265575  0.15481207  0.05868855 -0.03331440
## [2,]  -0.08265575  0.15367203 -0.05436780 -0.08011400  0.03221826
## [3,]   0.15481207 -0.05436780  0.11624860  0.04435009 -0.01934359
## [4,]   0.05868855 -0.08011400  0.04435009  0.10510577 -0.02121031
## [5,]  -0.03331440  0.03221826 -0.01934359 -0.02121031  0.04570762
##
```

```
## $v[[488]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.2886598 -0.08265350  0.15482357  0.05869570 -0.03340630
## [2,]  -0.0826535  0.15367771 -0.05435578 -0.08012268  0.03232987
## [3,]   0.1548236 -0.05435578  0.11626054  0.04436183 -0.01889245
## [4,]   0.0586957 -0.08012268  0.04436183  0.10509046 -0.02092950
## [5,]  -0.0334063  0.03232987 -0.01889245 -0.02092950  0.03416883
##
## $v[[489]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865671 -0.08265663  0.15481675  0.05869365 -0.03350740
## [2,]  -0.08265663  0.15367145 -0.05436774 -0.08011655  0.03215536
## [3,]   0.15481675 -0.05436774  0.11624903  0.04432936 -0.01922463
## [4,]   0.05869365 -0.08011655  0.04432936  0.10521299 -0.02109288
## [5,]  -0.03350740  0.03215536 -0.01922463 -0.02109288  0.03247886
##
## $v[[490]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865589 -0.08265918  0.15480584  0.05869059 -0.03352373
## [2,]  -0.08265918  0.15366910 -0.05436990 -0.08012114  0.03196584
## [3,]   0.15480584 -0.05436990  0.11624946  0.04435336 -0.01999762
## [4,]   0.05869059 -0.08012114  0.04435336  0.10625965 -0.02173109
## [5,]  -0.03352373  0.03196584 -0.01999762 -0.02173109  0.03628768
##
## $v[[491]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865344 -0.08265918  0.15480958  0.05868957 -0.03374634
## [2,]  -0.08265918  0.15366890 -0.05437000 -0.08012564  0.03198320
## [3,]   0.15480958 -0.05437000  0.11624360  0.04435632 -0.01965238
## [4,]   0.05868957 -0.08012564  0.04435632  0.10495771 -0.02110820
## [5,]  -0.03374634  0.03198320 -0.01965238 -0.02110820  0.01481328
##
## $v[[492]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865528 -0.08265579  0.15481293  0.05869161 -0.03361666
## [2,]  -0.08265579  0.15367559 -0.05436664 -0.08012247  0.03215710
## [3,]   0.15481293 -0.05436664  0.11624079  0.04435203 -0.01952423
## [4,]   0.05869161 -0.08012247  0.04435203  0.10501898 -0.02106736
## [5,]  -0.03361666  0.03215710 -0.01952423 -0.02106736  0.02334483
##
## $v[[493]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865467 -0.08265789  0.15481105  0.05869059 -0.03371979
## [2,]  -0.08265789  0.15367216 -0.05436789 -0.08012482  0.03202200
## [3,]   0.15481105 -0.05436789  0.11624116  0.04435448 -0.01958090
## [4,]   0.05869059 -0.08012482  0.04435448  0.10490155 -0.02104693
## [5,]  -0.03371979  0.03202200 -0.01958090 -0.02104693  0.01510940
##
## $v[[494]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865855 -0.08265683  0.15481622  0.05869467 -0.03332870
## [2,]  -0.08265683  0.15367085 -0.05436569 -0.08012901  0.03218712
## [3,]   0.15481622 -0.05436569  0.11624518  0.04433232 -0.01923657
## [4,]   0.05869467 -0.08012901  0.04433232  0.10527937 -0.02105204
```

```
## [5,]  -0.03332870   0.03218712 -0.01923657 -0.02105204   0.05396858
##
## $v[[495]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865385 -0.08265771  0.15481322  0.05869059 -0.03369528
## [2,]  -0.08265771  0.15367142 -0.05436792 -0.08012605  0.03207581
## [3,]   0.15481322 -0.05436792  0.11623821  0.04435377 -0.01950462
## [4,]   0.05869059 -0.08012605  0.04435377  0.10493218 -0.02104693
## [5,]  -0.03369528  0.03207581 -0.01950462 -0.02104693  0.01871400
##
## $v[[496]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866100 -0.08266069  0.15480938  0.05869059 -0.03336137
## [2,]  -0.08266069  0.15367264 -0.05436672 -0.08011573  0.03190580
## [3,]   0.15480938 -0.05436672  0.11624360  0.04436234 -0.01971344
## [4,]   0.05869059 -0.08011573  0.04436234  0.10511599 -0.02115926
## [5,]  -0.03336137  0.03190580 -0.01971344 -0.02115926  0.03685441
##
## $v[[497]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865548 -0.08265554  0.15481800  0.05869059 -0.03365750
## [2,]  -0.08265554  0.15367759 -0.05436350 -0.08012860  0.03214505
## [3,]   0.15481800 -0.05436350  0.11625274  0.04436663 -0.01930417
## [4,]   0.05869059 -0.08012860  0.04436663  0.10494239 -0.02106736
## [5,]  -0.03365750  0.03214505 -0.01930417 -0.02106736  0.01873953
##
## $v[[498]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865610 -0.08266028  0.15481085  0.05868855 -0.03371264
## [2,]  -0.08266028  0.15366909 -0.05436844 -0.08012707  0.03194787
## [3,]   0.15481085 -0.05436844  0.11623896  0.04435601 -0.01957569
## [4,]   0.05868855 -0.08012707  0.04435601  0.10496282 -0.02113373
## [5,]  -0.03371264  0.03194787 -0.01957569 -0.02113373  0.01462437
##
## $v[[499]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08266018  0.15481379  0.05869263 -0.03372490
## [2,]  -0.08266018  0.15366895 -0.05436825 -0.08012594  0.03194715
## [3,]   0.15481379 -0.05436825  0.11623906  0.04435622 -0.01948818
## [4,]   0.05869263 -0.08012594  0.04435622  0.10491176 -0.02097035
## [5,]  -0.03372490  0.03194715 -0.01948818 -0.02097035  0.01555360
##
## $v[[500]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265701  0.15480838  0.05868753 -0.03361257
## [2,]  -0.08265701  0.15367072 -0.05437069 -0.08012676  0.03207285
## [3,]   0.15480838 -0.05437069  0.11624499  0.04435438 -0.01970354
## [4,]   0.05868753 -0.08012676  0.04435438  0.10499856 -0.02117968
## [5,]  -0.03361257  0.03207285 -0.01970354 -0.02117968  0.02037334
##
## $v[[501]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865569 -0.08266012  0.15481126  0.05868753 -0.03368303
## [2,]  -0.08266012  0.15366871 -0.05436850 -0.08012329  0.03194450
```

```
## [3,]   0.15481126 -0.05436850   0.11623933   0.04435877 -0.01957314
## [4,]   0.05868753 -0.08012329   0.04435877   0.10503940 -0.02120010
## [5,] -0.03368303   0.03194450 -0.01957314 -0.02120010   0.01670237
##
## $v[[502]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865610 -0.08266028   0.15481126   0.05868548 -0.03370447
## [2,] -0.08266028   0.15366880 -0.05436870 -0.08012819   0.03195675
## [3,]   0.15481126 -0.05436870   0.11623911   0.04435959 -0.01957957
## [4,]   0.05868548 -0.08012819   0.04435959   0.10502919 -0.02122563
## [5,] -0.03370447   0.03195675 -0.01957957 -0.02122563   0.01606416
##
## $v[[503]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865753 -0.08265313   0.15481610   0.05868753 -0.03350535
## [2,] -0.08265313   0.15367870 -0.05436105 -0.08012870   0.03233069
## [3,]   0.15481610 -0.05436105   0.11625261   0.04436459 -0.01925536
## [4,]   0.05868753 -0.08012870   0.04436459   0.10508025 -0.02122053
## [5,] -0.03350535   0.03233069 -0.01925536 -0.02122053   0.02994645
##
## $v[[504]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865487 -0.08265861   0.15481305   0.05868753 -0.03369018
## [2,] -0.08265861   0.15366938 -0.05436814 -0.08012696   0.03200290
## [3,]   0.15481305 -0.05436814   0.11623903   0.04435070 -0.01952474
## [4,]   0.05868753 -0.08012696   0.04435070   0.10501898 -0.02118989
## [5,] -0.03369018   0.03200290 -0.01952474 -0.02118989   0.01725889
##
## $v[[505]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866263 -0.08265366   0.15480885   0.05868855 -0.03321637
## [2,] -0.08265366   0.15367873 -0.05436598 -0.08012768   0.03217057
## [3,]   0.15480885 -0.05436598   0.11625172   0.04434253 -0.01975950
## [4,]   0.05868855 -0.08012768   0.04434253   0.10558571 -0.02144517
## [5,] -0.03321637   0.03217057 -0.01975950 -0.02144517   0.05401964
##
## $v[[506]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865324 -0.08265818   0.15481458   0.05869365 -0.03376268
## [2,] -0.08265818   0.15367084 -0.05436573 -0.08011818   0.03201128
## [3,]   0.15481458 -0.05436573   0.11624237   0.04436582 -0.01946684
## [4,]   0.05869365 -0.08011818   0.04436582   0.10494750 -0.02093971
## [5,] -0.03376268   0.03201128 -0.01946684 -0.02093971   0.01382278
##
## $v[[507]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866978 -0.08265826   0.15480817   0.05869263 -0.03305299
## [2,] -0.08265826   0.15367321 -0.05436602 -0.08012155   0.03198708
## [3,]   0.15480817 -0.05436602   0.11624633   0.04436193 -0.01975899
## [4,]   0.05869263 -0.08012155   0.04436193   0.10513641 -0.02109799
## [5,] -0.03305299   0.03198708 -0.01975899 -0.02109799   0.04747418
##
## $v[[508]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28866304 -0.08265475  0.15480345  0.05868957 -0.03316736
## [2,]  -0.08265475  0.15367301 -0.05437133 -0.08014289  0.03228882
## [3,]   0.15480345 -0.05437133  0.11625116  0.04433804 -0.02003490
## [4,]   0.05868957 -0.08014289  0.04433804  0.10559081 -0.02142475
## [5,]  -0.03316736  0.03228882 -0.02003490 -0.02142475  0.05724641
##
## $v[[509]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865937 -0.08265855  0.15482167  0.05869161 -0.03351863
## [2,]  -0.08265855  0.15367114 -0.05436628 -0.08012615  0.03199198
## [3,]   0.15482167 -0.05436628  0.11625783  0.04435611 -0.01917122
## [4,]   0.05869161 -0.08012615  0.04435611  0.10494750 -0.02103162
## [5,]  -0.03351863  0.03199198 -0.01917122 -0.02103162  0.02382477
##
## $v[[510]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865569 -0.08265634  0.15481467  0.05868957 -0.03368916
## [2,]  -0.08265634  0.15367214 -0.05436705 -0.08012502  0.03206948
## [3,]   0.15481467 -0.05436705  0.11624166  0.04434754 -0.01948236
## [4,]   0.05868957 -0.08012502  0.04434754  0.10499856 -0.02112862
## [5,]  -0.03368916  0.03206948 -0.01948236 -0.02112862  0.01660026
##
## $v[[511]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866059 -0.08265593  0.15480166  0.05868957 -0.03337975
## [2,]  -0.08265593  0.15367097 -0.05437375 -0.08012513  0.03214106
## [3,]   0.15480166 -0.05437375  0.11625699  0.04435407 -0.02003438
## [4,]   0.05868957 -0.08012513  0.04435407  0.10523342 -0.02124605
## [5,]  -0.03337975  0.03214106 -0.02003438 -0.02124605  0.03466919
##
## $v[[512]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866039 -0.08265993  0.15481489  0.05868855 -0.03352067
## [2,]  -0.08265993  0.15367314 -0.05436783 -0.08011420  0.03201067
## [3,]   0.15481489 -0.05436783  0.11624657  0.04434325 -0.01935748
## [4,]   0.05868855 -0.08011420  0.04434325  0.10501387 -0.02115926
## [5,]  -0.03352067  0.03201067 -0.01935748 -0.02115926  0.02434554
##
## $v[[513]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865365 -0.08266032  0.15480925  0.05868753 -0.03371673
## [2,]  -0.08266032  0.15366859 -0.05436812 -0.08012360  0.03193143
## [3,]   0.15480925 -0.05436812  0.11624474  0.04435448 -0.01969118
## [4,]   0.05868753 -0.08012360  0.04435448  0.10513130 -0.02125627
## [5,]  -0.03371673  0.03193143 -0.01969118 -0.02125627  0.01717720
##
## $v[[514]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866222 -0.08265070  0.15481348  0.05869263 -0.03288348
## [2,]  -0.08265070  0.15368261 -0.05435577 -0.08014565  0.03274088
## [3,]   0.15481348 -0.05435577  0.11627052  0.04430159 -0.01948757
## [4,]   0.05869263 -0.08014565  0.04430159  0.10524873 -0.02115415
## [5,]  -0.03288348  0.03274088 -0.01948757 -0.02115415  0.10326883
##
```

```
## $v[[515]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865406 -0.08265787  0.15481230  0.05868651 -0.03374838
## [2,] -0.08265787  0.15367095 -0.05436915 -0.08012778  0.03201179
## [3,]  0.15481230 -0.05436915  0.11623884  0.04435520 -0.01955200
## [4,]  0.05868651 -0.08012778  0.04435520  0.10492197 -0.02115926
## [5,] -0.03374838  0.03201179 -0.01955200 -0.02115926  0.01405764
##
## $v[[516]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865589 -0.08265885  0.15481526  0.05868957 -0.03368609
## [2,] -0.08265885  0.15366916 -0.05436779 -0.08012288  0.03198126
## [3,]  0.15481526 -0.05436779  0.11623987  0.04435571 -0.01945673
## [4,]  0.05868957 -0.08012288  0.04435571  0.10502919 -0.02114394
## [5,] -0.03368609  0.03198126 -0.01945673 -0.02114394  0.01613564
##
## $v[[517]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866325 -0.08265299  0.15480260  0.05868855 -0.03263943
## [2,] -0.08265299  0.15367902 -0.05437423 -0.08014892  0.03251807
## [3,]  0.15480260 -0.05437423  0.11624790  0.04435244 -0.02056200
## [4,]  0.05868855 -0.08014892  0.04435244  0.10542233 -0.02136859
## [5,] -0.03263943  0.03251807 -0.02056200 -0.02136859  0.14352695
##
## $v[[518]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865589 -0.08265556  0.15481273  0.05869365 -0.03353395
## [2,] -0.08265556  0.15367625 -0.05436781 -0.08014392  0.03227922
## [3,]  0.15481273 -0.05436781  0.11623861  0.04434866 -0.01954261
## [4,]  0.05869365 -0.08014392  0.04434866  0.10516194 -0.02106736
## [5,] -0.03353395  0.03227922 -0.01954261 -0.02106736  0.03258097
##
## $v[[519]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866325 -0.08264952  0.15481920  0.05869365 -0.03308056
## [2,] -0.08264952  0.15369242 -0.05435163 -0.08012982  0.03254533
## [3,]  0.15481920 -0.05435163  0.11629103  0.04433069 -0.01919787
## [4,]  0.05869365 -0.08012982  0.04433069  0.10516194 -0.02104693
## [5,] -0.03308056  0.03254533 -0.01919787 -0.02104693  0.06399099
##
## $v[[520]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865957 -0.08266042  0.15481068  0.05868957 -0.03353190
## [2,] -0.08266042  0.15366895 -0.05436897 -0.08012298  0.03192111
## [3,]  0.15481068 -0.05436897  0.11623934  0.04435326 -0.01958100
## [4,]  0.05868957 -0.08012298  0.04435326  0.10499856 -0.02112862
## [5,] -0.03353190  0.03192111 -0.01958100 -0.02112862  0.02366649
##
## $v[[521]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865426 -0.08265859  0.15481295  0.05868651 -0.03372796
## [2,] -0.08265859  0.15366958 -0.05436914 -0.08012666  0.03199984
## [3,]  0.15481295 -0.05436914  0.11623926  0.04435622 -0.01953168
## [4,]  0.05868651 -0.08012666  0.04435622  0.10491176 -0.02118479
```

```
## [5,]  -0.03372796  0.03199984 -0.01953168 -0.02118479  0.01503793
##
## $v[[522]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866774 -0.08265626  0.15480660  0.05869059 -0.03324599
## [2,]  -0.08265626  0.15367534 -0.05436994 -0.08013176  0.03208929
## [3,]   0.15480660 -0.05436994  0.11624981  0.04435622 -0.01976654
## [4,]   0.05869059 -0.08013176  0.04435622  0.10502408 -0.02111331
## [5,]  -0.03324599  0.03208929 -0.01976654 -0.02111331  0.03400035
##
## $v[[523]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865610 -0.08265609  0.15481855  0.05869161 -0.03361564
## [2,]  -0.08265609  0.15367295 -0.05436199 -0.08012380  0.03211880
## [3,]   0.15481855 -0.05436199  0.11625021  0.04435571 -0.01928508
## [4,]   0.05869161 -0.08012380  0.04435571  0.10495771 -0.02103672
## [5,]  -0.03361564  0.03211880 -0.01928508 -0.02103672  0.02121577
##
## $v[[524]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865446 -0.08265997  0.15481262  0.05868753 -0.03370243
## [2,]  -0.08265997  0.15367295 -0.05436689 -0.08012952  0.03195103
## [3,]   0.15481262 -0.05436689  0.11623903  0.04435642 -0.01954026
## [4,]   0.05868753 -0.08012952  0.04435642  0.10500877 -0.02120521
## [5,]  -0.03370243  0.03195103 -0.01954026 -0.02120521  0.01676874
##
## $v[[525]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865651 -0.08265648  0.15482204  0.05869059 -0.03350127
## [2,]  -0.08265648  0.15367248 -0.05435817 -0.08013554  0.03222704
## [3,]   0.15482204 -0.05435817  0.11627663  0.04428964 -0.01876910
## [4,]   0.05869059 -0.08013554  0.04428964  0.10528958 -0.02124605
## [5,]  -0.03350127  0.03222704 -0.01876910 -0.02124605  0.03577711
##
## $v[[526]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866039 -0.08265464  0.15480866  0.05868855 -0.03354007
## [2,]  -0.08265464  0.15367393 -0.05436666 -0.08012829  0.03211523
## [3,]   0.15480866 -0.05436666  0.11625585  0.04434406 -0.01961909
## [4,]   0.05868855 -0.08012829  0.04434406  0.10502408 -0.02116436
## [5,]  -0.03354007  0.03211523 -0.01961909 -0.02116436  0.02155275
##
## $v[[527]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865753 -0.08265389  0.15481030  0.05868957 -0.03340528
## [2,]  -0.08265389  0.15367712 -0.05436755 -0.08013605  0.03236888
## [3,]   0.15481030 -0.05436755  0.11625048  0.04431598 -0.01962940
## [4,]   0.05868957 -0.08013605  0.04431598  0.10588694 -0.02157282
## [5,]  -0.03340528  0.03236888 -0.01962940 -0.02157282  0.04553914
##
## $v[[528]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865324 -0.08265934  0.15480921  0.05869059 -0.03375962
## [2,]  -0.08265934  0.15366874 -0.05437005 -0.08012451  0.03197227
```

```
## [3,]   0.15480921 -0.05437005  0.11624559  0.04435244 -0.01965626
## [4,]   0.05869059 -0.08012451  0.04435244  0.10494239 -0.02106736
## [5,]  -0.03375962  0.03197227 -0.01965626 -0.02106736  0.01408317
##
## $v[[529]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866079 -0.08265505  0.15480795  0.05868753 -0.03337567
## [2,]  -0.08265505  0.15367326 -0.05437118 -0.08013289  0.03226370
## [3,]   0.15480795 -0.05437118  0.11624390  0.04433641 -0.01979136
## [4,]   0.05868753 -0.08013289  0.04433641  0.10511088 -0.02123584
## [5,]  -0.03337567  0.03226370 -0.01979136 -0.02123584  0.03924386
##
## $v[[530]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866672 -0.08265260  0.15480680  0.05868855 -0.03263433
## [2,]  -0.08265260  0.15367489 -0.05436727 -0.08012482  0.03239757
## [3,]   0.15480680 -0.05436727  0.11625857  0.04434059 -0.02031142
## [4,]   0.05868855 -0.08012482  0.04434059  0.10537127 -0.02133796
## [5,]  -0.03263433  0.03239757 -0.02031142 -0.02133796  0.12407950
##
## $v[[531]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865467 -0.08265710  0.15481164  0.05868957 -0.03371060
## [2,]  -0.08265710  0.15367280 -0.05436893 -0.08013146  0.03206540
## [3,]   0.15481164 -0.05436893  0.11623892  0.04435183 -0.01956456
## [4,]   0.05868957 -0.08013146  0.04435183  0.10497813 -0.02111841
## [5,]  -0.03371060  0.03206540 -0.01956456 -0.02111841  0.01588036
##
## $v[[532]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865712 -0.08265585  0.15482277  0.05869161 -0.03359113
## [2,]  -0.08265585  0.15367346 -0.05435539 -0.08012788  0.03212503
## [3,]   0.15482277 -0.05435539  0.11628278  0.04435254 -0.01911618
## [4,]   0.05869161 -0.08012788  0.04435254  0.10511088 -0.02112352
## [5,]  -0.03359113  0.03212503 -0.01911618 -0.02112352  0.02194078
##
## $v[[533]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28867060 -0.08265581  0.15479912  0.05868957 -0.03226264
## [2,]  -0.08265581  0.15367769 -0.05436912 -0.08014330  0.03249019
## [3,]   0.15479912 -0.05436912  0.11626395  0.04431731 -0.02078451
## [4,]   0.05868957 -0.08014330  0.04431731  0.10617286 -0.02171577
## [5,]  -0.03226264  0.03249019 -0.02078451 -0.02171577  0.17973119
##
## $v[[534]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866549 -0.08265536  0.15481017  0.05869161 -0.03298662
## [2,]  -0.08265536  0.15367264 -0.05436770 -0.08012901  0.03214648
## [3,]   0.15481017 -0.05436770  0.11624725  0.04436296 -0.01980289
## [4,]   0.05869161 -0.08012901  0.04436296  0.10550912 -0.02132264
## [5,]  -0.03298662  0.03214648 -0.01980289 -0.02132264  0.06933151
##
## $v[[535]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28866120 -0.08264889  0.15482145  0.05868957 -0.03307137
## [2,]  -0.08264889  0.15369053 -0.05434899 -0.08014606  0.03281522
## [3,]   0.15482145 -0.05434899  0.11630948  0.04432528 -0.01907942
## [4,]   0.05868957 -0.08014606  0.04432528  0.10535595 -0.02130732
## [5,]  -0.03307137  0.03281522 -0.01907942 -0.02130732  0.07725039
##
## $v[[536]]
##                [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866263 -0.08265360  0.15481322  0.05869263 -0.03329092
## [2,]  -0.08265360  0.15367528 -0.05436527 -0.08012176  0.03228086
## [3,]   0.15481322 -0.05436527  0.11624992  0.04434039 -0.01944948
## [4,]   0.05869263 -0.08012176  0.04434039  0.10515683 -0.02109288
## [5,]  -0.03329092  0.03228086 -0.01944948 -0.02109288  0.03827889
##
## $v[[537]]
##                [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08265801  0.15481344  0.05868753 -0.03373307
## [2,]  -0.08265801  0.15367057 -0.05436854 -0.08012890  0.03201455
## [3,]   0.15481344 -0.05436854  0.11623875  0.04435805 -0.01950483
## [4,]   0.05868753 -0.08012890  0.04435805  0.10493729 -0.02114905
## [5,]  -0.03373307  0.03201455 -0.01950483 -0.02114905  0.01495113
##
## $v[[538]]
##                [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865303 -0.08265824  0.15481369  0.05869059 -0.03375859
## [2,]  -0.08265824  0.15367120 -0.05436690 -0.08012360  0.03202241
## [3,]   0.15481369 -0.05436690  0.11624016  0.04435754 -0.01949247
## [4,]   0.05869059 -0.08012360  0.04435754  0.10490155 -0.02103672
## [5,]  -0.03375859  0.03202241 -0.01949247 -0.02103672  0.01439461
##
## $v[[539]]
##                [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865937 -0.08266036  0.15481040  0.05868753 -0.03355437
## [2,]  -0.08266036  0.15367036 -0.05436886 -0.08012431  0.03194327
## [3,]   0.15481040 -0.05436886  0.11624040  0.04435315 -0.01961511
## [4,]   0.05868753 -0.08012431  0.04435315  0.10493729 -0.02114905
## [5,]  -0.03355437  0.03194327 -0.01961511 -0.02114905  0.02120556
##
## $v[[540]]
##                [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265428  0.15481403  0.05868855 -0.03362789
## [2,]  -0.08265428  0.15367641 -0.05436727 -0.08012829  0.03214995
## [3,]   0.15481403 -0.05436727  0.11624353  0.04435560 -0.01953158
## [4,]   0.05868855 -0.08012829  0.04435560  0.10503430 -0.02116947
## [5,]  -0.03362789  0.03214995 -0.01953158 -0.02116947  0.02009253
##
## $v[[541]]
##                [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865283 -0.08265951  0.15481209  0.05868855 -0.03377697
## [2,]  -0.08265951  0.15366870 -0.05436895 -0.08012635  0.03196543
## [3,]   0.15481209 -0.05436895  0.11623836  0.04435673 -0.01955323
## [4,]   0.05868855 -0.08012635  0.04435673  0.10492197 -0.02111841
## [5,]  -0.03377697  0.03196543 -0.01955323 -0.02111841  0.01333264
##
```

```
## $v[[542]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865834 -0.08265381  0.15481767  0.05868753 -0.03360236
## [2,] -0.08265381  0.15367553 -0.05436476 -0.08012390  0.03214106
## [3,]  0.15481767 -0.05436476  0.11624862  0.04434835 -0.01941170
## [4,]  0.05868753 -0.08012390  0.04434835  0.10509046 -0.02122563
## [5,] -0.03360236  0.03214106 -0.01941170 -0.02122563  0.01988320
##
## $v[[543]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866345 -0.08265307  0.15480885  0.05868651 -0.03324701
## [2,] -0.08265307  0.15367470 -0.05437129 -0.08013432  0.03236469
## [3,]  0.15480885 -0.05437129  0.11624567  0.04434549 -0.01992288
## [4,]  0.05868651 -0.08013432  0.04434549  0.10641282 -0.02188937
## [5,] -0.03324701  0.03236469 -0.01992288 -0.02188937  0.06027918
##
## $v[[544]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866059 -0.08265705  0.15480074  0.05868957 -0.03307852
## [2,] -0.08265705  0.15367003 -0.05437288 -0.08012890  0.03224655
## [3,]  0.15480074 -0.05437288  0.11625540  0.04435019 -0.02053259
## [4,]  0.05868957 -0.08012890  0.04435019  0.10644856 -0.02185363
## [5,] -0.03307852  0.03224655 -0.02053259 -0.02185363  0.08386222
##
## $v[[545]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865916 -0.08265538  0.15481865  0.05869161 -0.03347880
## [2,] -0.08265538  0.15367260 -0.05436308 -0.08012411  0.03216281
## [3,]  0.15481865 -0.05436308  0.11625137  0.04434580 -0.01924628
## [4,]  0.05869161 -0.08012411  0.04434580  0.10501898 -0.02106736
## [5,] -0.03347880  0.03216281 -0.01924628 -0.02106736  0.02749573
##
## $v[[546]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865324 -0.08265932  0.15481099  0.05868855 -0.03376472
## [2,] -0.08265932  0.15366886 -0.05436934 -0.08012462  0.03197156
## [3,]  0.15481099 -0.05436934  0.11623987  0.04435714 -0.01958662
## [4,]  0.05868855 -0.08012462  0.04435714  0.10494239 -0.02112352
## [5,] -0.03376472  0.03197156 -0.01958662 -0.02112352  0.01372067
##
## $v[[547]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866079 -0.08265716  0.15482014  0.05868855 -0.03342264
## [2,] -0.08265716  0.15367149 -0.05436489 -0.08012074  0.03208419
## [3,]  0.15482014 -0.05436489  0.11624922  0.04435540 -0.01916632
## [4,]  0.05868855 -0.08012074  0.04435540  0.10498324 -0.02114905
## [5,] -0.03342264  0.03208419 -0.01916632 -0.02114905  0.02974733
##
## $v[[548]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866284 -0.08265377  0.15480958  0.05869467 -0.03327764
## [2,] -0.08265377  0.15367468 -0.05436829 -0.08012472  0.03224777
## [3,]  0.15480958 -0.05436829  0.11625387  0.04433896 -0.01949696
## [4,]  0.05869467 -0.08012472  0.04433896  0.10507514 -0.02097545
```

```
## [5,]  -0.03327764   0.03224777  -0.01949696  -0.02097545   0.04203155
##
## $v[[549]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865569  -0.08265902   0.15480936   0.05868957  -0.03371264
## [2,]  -0.08265902   0.15366893  -0.05436951  -0.08012441   0.03197401
## [3,]   0.15480936  -0.05436951   0.11624105   0.04435458  -0.01961776
## [4,]   0.05868957  -0.08012441   0.04435458   0.10490665  -0.02108267
## [5,]  -0.03371264   0.03197401  -0.01961776  -0.02108267   0.01468564
##
## $v[[550]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865263  -0.08265991   0.15481207   0.05868855  -0.03377697
## [2,]  -0.08265991   0.15366849  -0.05436870  -0.08012492   0.03195236
## [3,]   0.15481207  -0.05436870   0.11623841   0.04435571  -0.01955690
## [4,]   0.05868855  -0.08012492   0.04435571   0.10499345  -0.02115415
## [5,]  -0.03377697   0.03195236  -0.01955690  -0.02115415   0.01362876
##
## $v[[551]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865834  -0.08265650   0.15481113   0.05868855  -0.03330725
## [2,]  -0.08265650   0.15367281  -0.05436717  -0.08015004   0.03219559
## [3,]   0.15481113  -0.05436717   0.11624213   0.04433273  -0.01972325
## [4,]   0.05868855  -0.08015004   0.04433273   0.10569803  -0.02150644
## [5,]  -0.03330725   0.03219559  -0.01972325  -0.02150644   0.05970224
##
## $v[[552]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865671  -0.08265520   0.15481093   0.05868957  -0.03368405
## [2,]  -0.08265520   0.15367422  -0.05437019  -0.08012380   0.03206938
## [3,]   0.15481093  -0.05437019   0.11624173   0.04436102  -0.01957630
## [4,]   0.05868957  -0.08012380   0.04436102   0.10492708  -0.02109288
## [5,]  -0.03368405   0.03206938  -0.01957630  -0.02109288   0.01555360
##
## $v[[553]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866182  -0.08265095   0.15482202   0.05869263  -0.03320310
## [2,]  -0.08265095   0.15367973  -0.05436164  -0.08011859   0.03249254
## [3,]   0.15482202  -0.05436164   0.11628185   0.04433600  -0.01897639
## [4,]   0.05869263  -0.08011859   0.04433600   0.10512620  -0.02107757
## [5,]  -0.03320310   0.03249254  -0.01897639  -0.02107757   0.05149234
##
## $v[[554]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866549  -0.08265119   0.15483013   0.05869059  -0.03310201
## [2,]  -0.08265119   0.15367977  -0.05434742  -0.08012860   0.03233722
## [3,]   0.15483013  -0.05434742   0.11629631   0.04433937  -0.01878391
## [4,]   0.05869059  -0.08012860   0.04433937   0.10509556  -0.02114905
## [5,]  -0.03310201   0.03233722  -0.01878391  -0.02114905   0.05143617
##
## $v[[555]]
##               [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865732  -0.08265638   0.15482130   0.05869059  -0.03351352
## [2,]  -0.08265638   0.15367338  -0.05436140  -0.08012829   0.03213177
```

```
## [3,]   0.15482130 -0.05436140  0.11625839  0.04433886 -0.01909127
## [4,]   0.05869059 -0.08012829  0.04433886  0.10503430 -0.02111331
## [5,]  -0.03351352  0.03213177 -0.01909127 -0.02111331  0.02939504
##
## $v[[556]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865712 -0.08265685  0.15481103  0.05868855 -0.03356049
## [2,]  -0.08265685  0.15367263 -0.05437011 -0.08012564  0.03209021
## [3,]   0.15481103 -0.05437011  0.11624052  0.04435499 -0.01959959
## [4,]   0.05868855 -0.08012564  0.04435499  0.10499345 -0.02115415
## [5,]  -0.03356049  0.03209021 -0.01959959 -0.02115415  0.02491227
##
## $v[[557]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865875 -0.08265626  0.15480903  0.05868855 -0.03324394
## [2,]  -0.08265626  0.15367209 -0.05436816 -0.08014238  0.03219192
## [3,]   0.15480903 -0.05436816  0.11624467  0.04433559 -0.01992114
## [4,]   0.05868855 -0.08014238  0.04433559  0.10571845 -0.02151155
## [5,]  -0.03324394  0.03219192 -0.01992114 -0.02151155  0.07128187
##
## $v[[558]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865324 -0.08265899  0.15481220  0.05868957 -0.03376983
## [2,]  -0.08265899  0.15366910 -0.05436903 -0.08012564  0.03197850
## [3,]   0.15481220 -0.05436903  0.11623825  0.04435560 -0.01954679
## [4,]   0.05868957 -0.08012564  0.04435560  0.10490665 -0.02108267
## [5,]  -0.03376983  0.03197850 -0.01954679 -0.02108267  0.01337859
##
## $v[[559]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865487 -0.08266038  0.15481040  0.05868957 -0.03368405
## [2,]  -0.08266038  0.15366897 -0.05436832 -0.08012176  0.03192203
## [3,]   0.15481040 -0.05436832  0.11623978  0.04435509 -0.01962869
## [4,]   0.05868957 -0.08012176  0.04435509  0.10517215 -0.02121542
## [5,]  -0.03368405  0.03192203 -0.01962869 -0.02121542  0.01794305
##
## $v[[560]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865324 -0.08265936  0.15481152  0.05868446 -0.03375859
## [2,]  -0.08265936  0.15366956 -0.05436930 -0.08012360  0.03198167
## [3,]   0.15481152 -0.05436930  0.11623940  0.04436255 -0.01957733
## [4,]   0.05868446 -0.08012360  0.04436255  0.10497303 -0.02123074
## [5,]  -0.03375859  0.03198167 -0.01957733 -0.02123074  0.01426187
##
## $v[[561]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865691 -0.08265722  0.15480938  0.05868957 -0.03364729
## [2,]  -0.08265722  0.15367177 -0.05437099 -0.08012707  0.03203048
## [3,]   0.15480938 -0.05437099  0.11624203  0.04435479 -0.01962675
## [4,]   0.05868957 -0.08012707  0.04435479  0.10492708 -0.02109288
## [5,]  -0.03364729  0.03203048 -0.01962675 -0.02109288  0.01759586
##
## $v[[562]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
```

```
## [1,]   0.28865446 -0.08265899  0.15481571  0.05868753 -0.03368916
## [2,]  -0.08265899  0.15366894 -0.05436725 -0.08012696  0.03199075
## [3,]   0.15481571 -0.05436725  0.11624299  0.04434498 -0.01940792
## [4,]   0.05868753 -0.08012696  0.04434498  0.10498834 -0.02119500
## [5,]  -0.03368916  0.03199075 -0.01940792 -0.02119500  0.01804005
##
## $v[[563]]
##                [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866120 -0.08265428  0.15481814  0.05869263 -0.03295701
## [2,]  -0.08265428  0.15368031 -0.05435423 -0.08015239  0.03252246
## [3,]   0.15481814 -0.05435423  0.11626015  0.04430465 -0.01909484
## [4,]   0.05869263 -0.08015239  0.04430465  0.10617796 -0.02161877
## [5,]  -0.03295701  0.03252246 -0.01909484 -0.02161877  0.10275826
##
## $v[[564]]
##                [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865365 -0.08265750  0.15481205  0.05868957 -0.03374430
## [2,]  -0.08265750  0.15367264 -0.05436834 -0.08012482  0.03203058
## [3,]   0.15481205 -0.05436834  0.11623951  0.04435448 -0.01956201
## [4,]   0.05868957 -0.08012482  0.04435448  0.10494750 -0.02110310
## [5,]  -0.03374430  0.03203058 -0.01956201 -0.02110310  0.01468053
##
## $v[[565]]
##                [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865508 -0.08265951  0.15481191  0.05868753 -0.03361155
## [2,]  -0.08265951  0.15366876 -0.05436859 -0.08012186  0.03196237
## [3,]   0.15481191 -0.05436859  0.11623837  0.04436265 -0.01959162
## [4,]   0.05868753 -0.08012186  0.04436265  0.10556018 -0.02146049
## [5,]  -0.03361155  0.03196237 -0.01959162 -0.02146049  0.02560664
##
## $v[[566]]
##                [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865814 -0.08265953  0.15480836  0.05868855 -0.03361359
## [2,]  -0.08265953  0.15366894 -0.05436957 -0.08012523  0.03196686
## [3,]   0.15480836 -0.05436957  0.11624555  0.04435540 -0.01965779
## [4,]   0.05868855 -0.08012523  0.04435540  0.10495260 -0.02113373
## [5,]  -0.03361359  0.03196686 -0.01965779 -0.02113373  0.01851999
##
## $v[[567]]
##                [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865998 -0.08265828  0.15482232  0.05869059 -0.03343694
## [2,]  -0.08265828  0.15367514 -0.05435945 -0.08012513  0.03200975
## [3,]   0.15482232 -0.05435945  0.11626628  0.04434274 -0.01907993
## [4,]   0.05869059 -0.08012513  0.04434274  0.10508535 -0.02114394
## [5,]  -0.03343694  0.03200975 -0.01907993 -0.02114394  0.03033959
##
## $v[[568]]
##                [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866018 -0.08266136  0.15481477  0.05868548 -0.03333993
## [2,]  -0.08266136  0.15367049 -0.05436694 -0.08011757  0.03187628
## [3,]   0.15481477 -0.05436694  0.11624446  0.04436183 -0.01938842
## [4,]   0.05868548 -0.08011757  0.04436183  0.10502919 -0.02128690
## [5,]  -0.03333993  0.03187628 -0.01938842 -0.02128690  0.04011693
##
```

```
## $v[[569]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865875 -0.08265948  0.15480862  0.05868855 -0.03351046
## [2,] -0.08265948  0.15366961 -0.05436954 -0.08012339  0.03194970
## [3,]  0.15480862 -0.05436954  0.11624131  0.04435887 -0.01968934
## [4,]  0.05868855 -0.08012339  0.04435887  0.10499345 -0.02115415
## [5,] -0.03351046  0.03194970 -0.01968934 -0.02115415  0.02587724
##
## $v[[570]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865916 -0.08265242  0.15482947  0.05869059 -0.03351046
## [2,] -0.08265242  0.15367825 -0.05435009 -0.08012237  0.03226585
## [3,]  0.15482947 -0.05435009  0.11631200  0.04434856 -0.01886672
## [4,]  0.05869059 -0.08012237  0.04434856  0.10506493 -0.02113373
## [5,] -0.03351046  0.03226585 -0.01886672 -0.02113373  0.02513181
##
## $v[[571]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865508 -0.08265667  0.15481616  0.05868957 -0.03367384
## [2,] -0.08265667  0.15367212 -0.05436400 -0.08012717  0.03208419
## [3,]  0.15481616 -0.05436400  0.11624657  0.04434774 -0.01939842
## [4,]  0.05868957 -0.08012717  0.04434774  0.10494750 -0.02110310
## [5,] -0.03367384  0.03208419 -0.01939842 -0.02110310  0.01805537
##
## $v[[572]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865610 -0.08265857  0.15480791  0.05868651 -0.03366363
## [2,] -0.08265857  0.15366901 -0.05437009 -0.08012523  0.03200199
## [3,]  0.15480791 -0.05437009  0.11624339  0.04436081 -0.01968669
## [4,]  0.05868651 -0.08012523  0.04436081  0.10498324 -0.02118989
## [5,] -0.03366363  0.03200199 -0.01968669 -0.02118989  0.01792262
##
## $v[[573]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865671 -0.08265579  0.15480729  0.05868855 -0.03363810
## [2,] -0.08265579  0.15367222 -0.05437278 -0.08012554  0.03209593
## [3,]  0.15480729 -0.05437278  0.11624531  0.04435550 -0.01973897
## [4,]  0.05868855 -0.08012554  0.04435550  0.10493218 -0.02112352
## [5,] -0.03363810  0.03209593 -0.01973897 -0.02112352  0.01860168
##
## $v[[574]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866100 -0.08265307  0.15481011  0.05868753 -0.03343796
## [2,] -0.08265307  0.15367493 -0.05436935 -0.08012931  0.03222367
## [3,]  0.15481011 -0.05436935  0.11624302  0.04435356 -0.01963982
## [4,]  0.05868753 -0.08012931  0.04435356  0.10520278 -0.02128179
## [5,] -0.03343796  0.03222367 -0.01963982 -0.02128179  0.02833306
##
## $v[[575]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866406 -0.08265019  0.15481383  0.05869365 -0.03319289
## [2,] -0.08265019  0.15368149 -0.05436401 -0.08012094  0.03248682
## [3,]  0.15481383 -0.05436401  0.11627620  0.04432589 -0.01937198
## [4,]  0.05869365 -0.08012094  0.04432589  0.10505982 -0.02099588
```

```
## [5,] -0.03319289  0.03248682 -0.01937198 -0.02099588  0.04577400
##
## $v[[576]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866304 -0.08265379  0.15482218  0.05868957 -0.03307954
## [2,] -0.08265379  0.15368773 -0.05436522 -0.08010838  0.03237878
## [3,]  0.15482218 -0.05436522  0.11628389  0.04433396 -0.01884763
## [4,]  0.05868957 -0.08010838  0.04433396  0.10524363 -0.02125116
## [5,] -0.03307954  0.03237878 -0.01884763 -0.02125116  0.06493554
##
## $v[[577]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866406 -0.08265091  0.15481567  0.05869263 -0.03301113
## [2,] -0.08265091  0.15367877 -0.05435958 -0.08012758  0.03253012
## [3,]  0.15481567 -0.05435958  0.11627069  0.04432916 -0.01931622
## [4,]  0.05869263 -0.08012758  0.04432916  0.10510577 -0.02108267
## [5,] -0.03301113  0.03253012 -0.01931622 -0.02108267  0.06982165
##
## $v[[578]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865630 -0.08265520  0.15481387  0.05869059 -0.03356356
## [2,] -0.08265520  0.15367666 -0.05436385 -0.08013381  0.03223378
## [3,]  0.15481387 -0.05436385  0.11624455  0.04433671 -0.01945336
## [4,]  0.05869059 -0.08013381  0.04433671  0.10501387 -0.02110310
## [5,] -0.03356356  0.03223378 -0.01945336 -0.02110310  0.02661246
##
## $v[[579]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865773 -0.08266073  0.15481367  0.05868753 -0.03358092
## [2,] -0.08266073  0.15366974 -0.05436739 -0.08012819  0.03190028
## [3,]  0.15481367 -0.05436739  0.11624340  0.04436112 -0.01955241
## [4,]  0.05868753 -0.08012819  0.04436112  0.10501898 -0.02120010
## [5,] -0.03358092  0.03190028 -0.01955241 -0.02120010  0.02219606
##
## $v[[580]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865630 -0.08265397  0.15481650  0.05869059 -0.03365546
## [2,] -0.08265397  0.15367830 -0.05436287 -0.08012543  0.03216006
## [3,]  0.15481650 -0.05436287  0.11624266  0.04435223 -0.01939005
## [4,]  0.05869059 -0.08012543  0.04435223  0.10499345 -0.02109799
## [5,] -0.03365546  0.03216006 -0.01939005 -0.02109799  0.01781030
##
## $v[[581]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865610 -0.08265375  0.15482488  0.05869059 -0.03359215
## [2,] -0.08265375  0.15368165 -0.05434832 -0.08012165  0.03225502
## [3,]  0.15482488 -0.05434832  0.11627767  0.04435060 -0.01890001
## [4,]  0.05869059 -0.08012165  0.04435060  0.10501387 -0.02110310
## [5,] -0.03359215  0.03225502 -0.01890001 -0.02110310  0.02353885
##
## $v[[582]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865998 -0.08265828  0.15479841  0.05868957 -0.03307341
## [2,] -0.08265828  0.15366907 -0.05437160 -0.08012462  0.03212595
```

```
## [3,]   0.15479841 -0.05437160  0.11626349  0.04434447 -0.02075898
## [4,]   0.05868957 -0.08012462  0.04434447  0.10637708 -0.02181789
## [5,]  -0.03307341  0.03212595 -0.02075898 -0.02181789  0.09096419
##
## $v[[583]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865569 -0.08265748  0.15481154  0.05868855 -0.03370447
## [2,]  -0.08265748  0.15367021 -0.05436958 -0.08012206  0.03201485
## [3,]   0.15481154 -0.05436958  0.11624121  0.04435622 -0.01956221
## [4,]   0.05868855 -0.08012206  0.04435622  0.10514662 -0.02122563
## [5,]  -0.03370447  0.03201485 -0.01956221 -0.02122563  0.01533916
##
## $v[[584]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865712 -0.08265871  0.15480513  0.05868753 -0.03340937
## [2,]  -0.08265871  0.15366899 -0.05437042 -0.08012492  0.03201873
## [3,]   0.15480513 -0.05437042  0.11624925  0.04434621 -0.02011322
## [4,]   0.05868753 -0.08012492  0.04434621  0.10665279 -0.02199659
## [5,]  -0.03340937  0.03201873 -0.02011322 -0.02199659  0.05469869
##
## $v[[585]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865446 -0.08265828  0.15481350  0.05868753 -0.03370652
## [2,]  -0.08265828  0.15366957 -0.05436847 -0.08012605  0.03201669
## [3,]   0.15481350 -0.05436847  0.11624149  0.04435234 -0.01951351
## [4,]   0.05868753 -0.08012605  0.04435234  0.10494750 -0.02117457
## [5,]  -0.03370652  0.03201669 -0.01951351 -0.02117457  0.01641135
##
## $v[[586]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265873  0.15480897  0.05868855 -0.03366057
## [2,]  -0.08265873  0.15366885 -0.05436954 -0.08012574  0.03198912
## [3,]   0.15480897 -0.05436954  0.11624096  0.04435642 -0.01964972
## [4,]   0.05868855 -0.08012574  0.04435642  0.10493218 -0.02111841
## [5,]  -0.03366057  0.03198912 -0.01964972 -0.02111841  0.01694744
##
## $v[[587]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865365 -0.08265887  0.15481371  0.05868855 -0.03372183
## [2,]  -0.08265887  0.15366915 -0.05436809 -0.08012727  0.03200117
## [3,]   0.15481371 -0.05436809  0.11623871  0.04434917 -0.01948941
## [4,]   0.05868855 -0.08012727  0.04434917  0.10534063 -0.02132264
## [5,]  -0.03372183  0.03200117 -0.01948941 -0.02132264  0.01736611
##
## $v[[588]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865222 -0.08265965  0.15481226  0.05868753 -0.03379944
## [2,]  -0.08265965  0.15366867 -0.05436890 -0.08012635  0.03195992
## [3,]   0.15481226 -0.05436890  0.11623831  0.04435703 -0.01954526
## [4,]   0.05868753 -0.08012635  0.04435703  0.10490665 -0.02113373
## [5,]  -0.03379944  0.03195992 -0.01954526 -0.02113373  0.01251573
##
## $v[[589]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28865303 -0.08265899  0.15481326  0.05868957 -0.03376778
## [2,]  -0.08265899  0.15366970 -0.05436787 -0.08012707  0.03198473
## [3,]   0.15481326 -0.05436787  0.11623856  0.04435417 -0.01951361
## [4,]   0.05868957 -0.08012707  0.04435417  0.10490665 -0.02108267
## [5,]  -0.03376778  0.03198473 -0.01951361 -0.02108267  0.01370535
##
## $v[[590]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865528 -0.08265859  0.15480899  0.05868957 -0.03365342
## [2,]  -0.08265859  0.15366924 -0.05437000 -0.08012523  0.03201342
## [3,]   0.15480899 -0.05437000  0.11624241  0.04435366 -0.01969557
## [4,]   0.05868957 -0.08012523  0.04435366  0.10501898 -0.02113884
## [5,]  -0.03365342  0.03201342 -0.01969557 -0.02113884  0.01977087
##
## $v[[591]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865426 -0.08266020  0.15481193  0.05868855 -0.03370856
## [2,]  -0.08266020  0.15366860 -0.05436867 -0.08012686  0.03194419
## [3,]   0.15481193 -0.05436867  0.11623857  0.04436030 -0.01957457
## [4,]   0.05868855 -0.08012686  0.04436030  0.10528958 -0.02129711
## [5,]  -0.03370856  0.03194419 -0.01957457 -0.02129711  0.01719762
##
## $v[[592]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865773 -0.08265781  0.15480707  0.05868855 -0.03365342
## [2,]  -0.08265781  0.15366953 -0.05437068 -0.08012492  0.03200668
## [3,]   0.15480707 -0.05437068  0.11624386  0.04435795 -0.01968179
## [4,]   0.05868855 -0.08012492  0.04435795  0.10494239 -0.02112352
## [5,]  -0.03365342  0.03200668 -0.01968179 -0.02112352  0.01648283
##
## $v[[593]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865548 -0.08265638  0.15481475  0.05869059 -0.03364116
## [2,]  -0.08265638  0.15367577 -0.05436886 -0.08012063  0.03210471
## [3,]   0.15481475 -0.05436886  0.11624220  0.04435560 -0.01943927
## [4,]   0.05869059 -0.08012063  0.04435560  0.10494239 -0.02105714
## [5,]  -0.03364116  0.03210471 -0.01943927 -0.02105714  0.02004658
##
## $v[[594]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265605  0.15481832  0.05869161 -0.03366261
## [2,]  -0.08265605  0.15367392 -0.05436315 -0.08012492  0.03208613
## [3,]   0.15481832 -0.05436315  0.11624702  0.04436051 -0.01935227
## [4,]   0.05869161 -0.08012492  0.04436051  0.10492708 -0.02102141
## [5,]  -0.03366261  0.03208613 -0.01935227 -0.02102141  0.01689639
##
## $v[[595]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866284 -0.08265054  0.15481473  0.05869467 -0.03331440
## [2,]  -0.08265054  0.15369118 -0.05435484 -0.08013125  0.03253716
## [3,]   0.15481473 -0.05435484  0.11625105  0.04434539 -0.01929233
## [4,]   0.05869467 -0.08013125  0.04434539  0.10511599 -0.02102141
## [5,]  -0.03331440  0.03253716 -0.01929233 -0.02102141  0.03763047
##
```

```
## $v[[596]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865651 -0.08265834  0.15480795  0.05868753 -0.03364831
## [2,] -0.08265834  0.15367043 -0.05436880 -0.08012656  0.03200219
## [3,]  0.15480795 -0.05436880  0.11624630  0.04435754 -0.01970558
## [4,]  0.05868753 -0.08012656  0.04435754  0.10494750 -0.02116436
## [5,] -0.03364831  0.03200219 -0.01970558 -0.02116436  0.01800942
##
## $v[[597]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865344 -0.08265995  0.15481199  0.05868753 -0.03375247
## [2,] -0.08265995  0.15366854 -0.05436866 -0.08012472  0.03195175
## [3,]  0.15481199 -0.05436866  0.11623827  0.04435601 -0.01955762
## [4,]  0.05868753 -0.08012472  0.04435601  0.10491687 -0.02114905
## [5,] -0.03375247  0.03195175 -0.01955762 -0.02114905  0.01429250
##
## $v[[598]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866651 -0.08265062  0.15481189  0.05869263 -0.03288451
## [2,] -0.08265062  0.15368276 -0.05435980 -0.08012686  0.03253522
## [3,]  0.15481189 -0.05435980  0.11626553  0.04433273 -0.01956323
## [4,]  0.05869263 -0.08012686  0.04433273  0.10542233 -0.02122563
## [5,] -0.03288451  0.03253522 -0.01956323 -0.02122563  0.07453928
##
## $v[[599]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865508 -0.08265738  0.15481728  0.05869263 -0.03365852
## [2,] -0.08265738  0.15367116 -0.05436386 -0.08012727  0.03207694
## [3,]  0.15481728 -0.05436386  0.11624723  0.04435040 -0.01930948
## [4,]  0.05869263 -0.08012727  0.04435040  0.10496282 -0.02101119
## [5,] -0.03365852  0.03207694 -0.01930948 -0.02101119  0.01953091
##
## $v[[600]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865773 -0.08265689  0.15480809  0.05868548 -0.03352782
## [2,] -0.08265689  0.15367067 -0.05437128 -0.08012502  0.03207867
## [3,]  0.15480809 -0.05437128  0.11624309  0.04435836 -0.01973438
## [4,]  0.05868548 -0.08012502  0.04435836  0.10510067 -0.02130222
## [5,] -0.03352782  0.03207867 -0.01973438 -0.02130222  0.02801651
##
## $v[[601]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865426 -0.08265904  0.15481042  0.05868855 -0.03371571
## [2,] -0.08265904  0.15366903 -0.05436960 -0.08012829  0.03198575
## [3,]  0.15481042 -0.05436960  0.11624014  0.04435734 -0.01962266
## [4,]  0.05868855 -0.08012829  0.04435734  0.10505472 -0.02117968
## [5,] -0.03371571  0.03198575 -0.01962266 -0.02117968  0.01619180
##
## $v[[602]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866365 -0.08265603  0.15480962  0.05868651 -0.03334197
## [2,] -0.08265603  0.15367072 -0.05436895 -0.08012625  0.03210012
## [3,]  0.15480962 -0.05436895  0.11624377  0.04435203 -0.01968618
## [4,]  0.05868651 -0.08012625  0.04435203  0.10501387 -0.02120521
```

```
## [5,] -0.03334197  0.03210012 -0.01968618 -0.02120521  0.03257076
##
## $v[[603]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866161 -0.08265381  0.15480938  0.05868855 -0.03323475
## [2,] -0.08265381  0.15367530 -0.05436850 -0.08012472  0.03230465
## [3,]  0.15480938 -0.05436850  0.11624668  0.04435560 -0.01988785
## [4,]  0.05868855 -0.08012472  0.04435560  0.10585120 -0.02157792
## [5,] -0.03323475  0.03230465 -0.01988785 -0.02157792  0.05649078
##
## $v[[604]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866141 -0.08265417  0.15481379  0.05869059 -0.03333278
## [2,] -0.08265417  0.15367768 -0.05436286 -0.08013003  0.03223154
## [3,]  0.15481379 -0.05436286  0.11626168  0.04434315 -0.01949696
## [4,]  0.05869059 -0.08013003  0.04434315  0.10510577 -0.02114905
## [5,] -0.03333278  0.03223154 -0.01949696 -0.02114905  0.03679314
##
## $v[[605]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866406 -0.08265385  0.15480576  0.05869059 -0.03281098
## [2,] -0.08265385  0.15367810 -0.05435964 -0.08013105  0.03231108
## [3,]  0.15480576 -0.05435964  0.11627550  0.04432865 -0.02031734
## [4,]  0.05869059 -0.08013105  0.04432865  0.10593289 -0.02156261
## [5,] -0.03281098  0.03231108 -0.02031734 -0.02156261  0.10193625
##
## $v[[606]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865814 -0.08265916  0.15480625  0.05868753 -0.03358807
## [2,] -0.08265916  0.15366908 -0.05436897 -0.08012543  0.03198422
## [3,]  0.15480625 -0.05436897  0.11624523  0.04435540 -0.01974980
## [4,]  0.05868753 -0.08012543  0.04435540  0.10497813 -0.02116947
## [5,] -0.03358807  0.03198422 -0.01974980 -0.02116947  0.02074095
##
## $v[[607]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865610 -0.08265454  0.15481461  0.05868855 -0.03358398
## [2,] -0.08265454  0.15367774 -0.05436615 -0.08012645  0.03227555
## [3,]  0.15481461 -0.05436615  0.11624033  0.04434692 -0.01943181
## [4,]  0.05868855 -0.08012645  0.04434692  0.10502408 -0.02116947
## [5,] -0.03358398  0.03227555 -0.01943181 -0.02116947  0.02496843
##
## $v[[608]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865834 -0.08265650  0.15481456  0.05868957 -0.03347676
## [2,] -0.08265650  0.15367550 -0.05436831 -0.08012462  0.03209777
## [3,]  0.15481456 -0.05436831  0.11625764  0.04434243 -0.01945101
## [4,]  0.05868957 -0.08012462  0.04434243  0.10508025 -0.02116947
## [5,] -0.03347676  0.03209777 -0.01945101 -0.02116947  0.02972180
##
## $v[[609]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865303 -0.08265969  0.15481166  0.05869059 -0.03375349
## [2,] -0.08265969  0.15366857 -0.05436890 -0.08012329  0.03196216
```

```
## [3,]   0.15481166 -0.05436890  0.11623878  0.04435203 -0.01957620
## [4,]   0.05869059 -0.08012329  0.04435203  0.10507514 -0.02113884
## [5,]  -0.03375349  0.03196216 -0.01957620 -0.02113884  0.01502261
##
## $v[[610]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865426 -0.08265865  0.15481040  0.05868753 -0.03373715
## [2,]  -0.08265865  0.15366954 -0.05436989 -0.08012686  0.03198728
## [3,]   0.15481040 -0.05436989  0.11624016  0.04435775 -0.01960051
## [4,]   0.05868753 -0.08012686  0.04435775  0.10491687 -0.02113884
## [5,]  -0.03373715  0.03198728 -0.01960051 -0.02113884  0.01445077
##
## $v[[611]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865794 -0.08265530  0.15481797  0.05868957 -0.03349106
## [2,]  -0.08265530  0.15367578 -0.05436249 -0.08013636  0.03226534
## [3,]   0.15481797 -0.05436249  0.11624419  0.04434315 -0.01920778
## [4,]   0.05868957 -0.08013636  0.04434315  0.10540701 -0.02133285
## [5,]  -0.03349106  0.03226534 -0.01920778 -0.02133285  0.03257076
##
## $v[[612]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865303 -0.08266002  0.15481215  0.05868957 -0.03378106
## [2,]  -0.08266002  0.15366855 -0.05436863 -0.08012533  0.03194940
## [3,]   0.15481215 -0.05436863  0.11623819  0.04435540 -0.01954649
## [4,]   0.05868957 -0.08012533  0.04435540  0.10489644 -0.02107757
## [5,]  -0.03378106  0.03194940 -0.01954649 -0.02107757  0.01291397
##
## $v[[613]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865875 -0.08265687  0.15481193  0.05868855 -0.03349616
## [2,]  -0.08265687  0.15367180 -0.05436900 -0.08012206  0.03208766
## [3,]   0.15481193 -0.05436900  0.11623998  0.04435428 -0.01947623
## [4,]   0.05868855 -0.08012206  0.04435428  0.10569803 -0.02150134
## [5,]  -0.03349616  0.03208766 -0.01947623 -0.02150134  0.03420968
##
## $v[[614]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865446 -0.08265785  0.15481616  0.05868957 -0.03374124
## [2,]  -0.08265785  0.15367015 -0.05436651 -0.08012543  0.03200607
## [3,]   0.15481616 -0.05436651  0.11624377  0.04435499 -0.01943906
## [4,]   0.05868957 -0.08012543  0.04435499  0.10490665 -0.02108267
## [5,]  -0.03374124  0.03200607 -0.01943906 -0.02108267  0.01403211
##
## $v[[615]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265991  0.15480644  0.05869059 -0.03366976
## [2,]  -0.08265991  0.15366853 -0.05436877 -0.08012554  0.03195134
## [3,]   0.15480644 -0.05436877  0.11624622  0.04435428 -0.01971702
## [4,]   0.05869059 -0.08012554  0.04435428  0.10493218 -0.02106736
## [5,]  -0.03366976  0.03195134 -0.01971702 -0.02106736  0.01635008
##
## $v[[616]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28866079 -0.08265156  0.15481661  0.05869161 -0.03311018
## [2,] -0.08265156  0.15368013 -0.05436277 -0.08013932  0.03266266
## [3,]   0.15481661 -0.05436277  0.11630425  0.04430730 -0.01945336
## [4,]   0.05869161 -0.08013932  0.04430730  0.10513130 -0.02112352
## [5,] -0.03311018  0.03266266 -0.01945336 -0.02112352  0.07216515
##
## $v[[617]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865303 -0.08265879  0.15481173  0.05868753 -0.03376268
## [2,] -0.08265879  0.15366966 -0.05436961 -0.08012707  0.03199249
## [3,]   0.15481173 -0.05436961  0.11623873  0.04435683 -0.01956936
## [4,]   0.05868753 -0.08012707  0.04435683  0.10500877 -0.02118479
## [5,] -0.03376268  0.03199249 -0.01956936 -0.02118479  0.01415975
##
## $v[[618]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865385 -0.08265861  0.15481162  0.05868855 -0.03372183
## [2,] -0.08265861  0.15366952 -0.05436928 -0.08012564  0.03200770
## [3,]   0.15481162 -0.05436928  0.11623892  0.04435601 -0.01958070
## [4,]   0.05868855 -0.08012564  0.04435601  0.10492197 -0.02112862
## [5,] -0.03372183  0.03200770 -0.01958070 -0.02112862  0.01611011
##
## $v[[619]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865385 -0.08265991  0.15481085  0.05868548 -0.03373307
## [2,] -0.08265991  0.15366852 -0.05436872 -0.08012543  0.03195154
## [3,]   0.15481085 -0.05436872  0.11623962  0.04435969 -0.01960204
## [4,]   0.05868548 -0.08012543  0.04435969  0.10494750 -0.02124605
## [5,] -0.03373307  0.03195154 -0.01960204 -0.02124605  0.01522683
##
## $v[[620]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866120 -0.08265695  0.15480337  0.05868855 -0.03339711
## [2,] -0.08265695  0.15367004 -0.05437216 -0.08012329  0.03209950
## [3,]   0.15480337 -0.05437216  0.11625169  0.04434070 -0.01984833
## [4,]   0.05868855 -0.08012329  0.04434070  0.10520789 -0.02126137
## [5,] -0.03339711  0.03209950 -0.01984833 -0.02126137  0.03636937
##
## $v[[621]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865283 -0.08265920  0.15481146  0.05869059 -0.03378310
## [2,] -0.08265920  0.15366898 -0.05436946 -0.08012482  0.03197176
## [3,]   0.15481146 -0.05436946  0.11623925  0.04435417 -0.01956691
## [4,]   0.05869059 -0.08012482  0.04435417  0.10491176 -0.02106225
## [5,] -0.03378310  0.03197176 -0.01956691 -0.02106225  0.01296503
##
## $v[[622]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865896 -0.08265899  0.15481998  0.05868446 -0.03351148
## [2,] -0.08265899  0.15367609 -0.05436576 -0.08013105  0.03201832
## [3,]   0.15481998 -0.05436576  0.11625388  0.04435172 -0.01920808
## [4,]   0.05868446 -0.08013105  0.04435172  0.10498324 -0.02133796
## [5,] -0.03351148  0.03201832 -0.01920808 -0.02133796  0.02500417
##
```

```
## $v[[623]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865610 -0.08265893  0.15480813  0.05868753 -0.03368814
## [2,]  -0.08265893  0.15366918 -0.05436994 -0.08012492  0.03198779
## [3,]   0.15480813 -0.05436994  0.11624289  0.04435673 -0.01966882
## [4,]   0.05868753 -0.08012492  0.04435673  0.10493729 -0.02114905
## [5,]  -0.03368814  0.03198779 -0.01966882 -0.02114905  0.01604374
##
## $v[[624]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865773 -0.08265593  0.15481187  0.05868855 -0.03349208
## [2,]  -0.08265593  0.15367225 -0.05436987 -0.08012676  0.03219130
## [3,]   0.15481187 -0.05436987  0.11623926  0.04435131 -0.01960949
## [4,]   0.05868855 -0.08012676  0.04435131  0.10547338 -0.02139412
## [5,]  -0.03349208  0.03219130 -0.01960949 -0.02139412  0.03163642
##
## $v[[625]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865794 -0.08265848  0.15480866  0.05869059 -0.03348493
## [2,]  -0.08265848  0.15366938 -0.05436941 -0.08011880  0.03202190
## [3,]   0.15480866 -0.05436941  0.11624143  0.04435999 -0.01975276
## [4,]   0.05869059 -0.08011880  0.04435999  0.10532021 -0.02126137
## [5,]  -0.03348493  0.03202190 -0.01975276 -0.02126137  0.03168238
##
## $v[[626]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865406 -0.08265863  0.15481046  0.05868855 -0.03375349
## [2,]  -0.08265863  0.15366973 -0.05437011 -0.08012482  0.03198544
## [3,]   0.15481046 -0.05437011  0.11624022  0.04435622 -0.01959142
## [4,]   0.05868855 -0.08012482  0.04435622  0.10491176 -0.02110820
## [5,]  -0.03375349  0.03198544 -0.01959142 -0.02110820  0.01369514
##
## $v[[627]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865508 -0.08265822  0.15480921  0.05868651 -0.03371060
## [2,]  -0.08265822  0.15366956 -0.05437072 -0.08012707  0.03200413
## [3,]   0.15480921 -0.05437072  0.11624241  0.04435887 -0.01963962
## [4,]   0.05868651 -0.08012707  0.04435887  0.10493218 -0.02116436
## [5,]  -0.03371060  0.03200413 -0.01963962 -0.02116436  0.01536979
##
## $v[[628]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865651 -0.08265634  0.15480762  0.05868957 -0.03363300
## [2,]  -0.08265634  0.15367177 -0.05437309 -0.08012411  0.03208919
## [3,]   0.15480762 -0.05437309  0.11624907  0.04435111 -0.01971283
## [4,]   0.05868957 -0.08012411  0.04435111  0.10494750 -0.02110310
## [5,]  -0.03363300  0.03208919 -0.01971283 -0.02110310  0.01905608
##
## $v[[629]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865794 -0.08265875  0.15481109  0.05868753 -0.03367384
## [2,]  -0.08265875  0.15367004 -0.05436934 -0.08012839  0.03198565
## [3,]   0.15481109 -0.05436934  0.11624044  0.04435530 -0.01957671
## [4,]   0.05868753 -0.08012839  0.04435530  0.10493729 -0.02113884
```

```
## [5,]  -0.03367384   0.03198565  -0.01957671  -0.02113884   0.01538000
##
## $v[[630]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866182  -0.08265042   0.15481438   0.05869059  -0.03315511
## [2,]  -0.08265042   0.15368131  -0.05436516  -0.08013391   0.03254901
## [3,]   0.15481438  -0.05436516   0.11627240   0.04431139  -0.01948328
## [4,]   0.05869059  -0.08013391   0.04431139   0.10519768  -0.02120010
## [5,]  -0.03315511   0.03254901  -0.01948328  -0.02120010   0.06064678
##
## $v[[631]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866263  -0.08265113   0.15480574   0.05869161  -0.03307239
## [2,]  -0.08265113   0.15368039  -0.05436507  -0.08014443   0.03263386
## [3,]   0.15480574  -0.05436507   0.11626403   0.04431435  -0.01993125
## [4,]   0.05869161  -0.08014443   0.04431435   0.10525384  -0.02119500
## [5,]  -0.03307239   0.03263386  -0.01993125  -0.02119500   0.07302801
##
## $v[[632]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865630  -0.08265587   0.15480860   0.05868957  -0.03363504
## [2,]  -0.08265587   0.15367299  -0.05437072  -0.08012972   0.03211860
## [3,]   0.15480860  -0.05437072   0.11624813   0.04434509  -0.01969659
## [4,]   0.05868957  -0.08012972   0.04434509   0.10495771  -0.02110820
## [5,]  -0.03363504   0.03211860  -0.01969659  -0.02110820   0.01936242
##
## $v[[633]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865753  -0.08265891   0.15480548   0.05868957  -0.03365240
## [2,]  -0.08265891   0.15366888  -0.05436970  -0.08012492   0.03197993
## [3,]   0.15480548  -0.05436970   0.11624773   0.04435479  -0.01973264
## [4,]   0.05868957  -0.08012492   0.04435479   0.10493729  -0.02109799
## [5,]  -0.03365240   0.03197993  -0.01973264  -0.02109799   0.01664110
##
## $v[[634]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865569  -0.08265620   0.15481285   0.05868957  -0.03368201
## [2,]  -0.08265620   0.15367240  -0.05436886  -0.08012860   0.03208214
## [3,]   0.15481285  -0.05436886   0.11623921   0.04435652  -0.01955251
## [4,]   0.05868957  -0.08012860   0.04435652   0.10500877  -0.02113373
## [5,]  -0.03368201   0.03208214  -0.01955251  -0.02113373   0.01725889
##
## $v[[635]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28866386  -0.08265089   0.15480695   0.05869570  -0.03282528
## [2,]  -0.08265089   0.15368292  -0.05436411  -0.08013411   0.03262498
## [3,]   0.15480695  -0.05436411   0.11625552   0.04433508  -0.02000579
## [4,]   0.05869570  -0.08013411   0.04433508   0.10547849  -0.02109288
## [5,]  -0.03282528   0.03262498  -0.02000579  -0.02109288   0.10483627
##
## $v[[636]]
##              [,1]         [,2]         [,3]         [,4]         [,5]
## [1,]   0.28865344  -0.08265965   0.15480991   0.05869263  -0.03378106
## [2,]  -0.08265965   0.15366872  -0.05436899  -0.08012482   0.03195573
```

```
## [3,]   0.15480991 -0.05436899  0.11624277  0.04435111 -0.01958611
## [4,]   0.05869263 -0.08012482  0.04435111  0.10491176 -0.02101630
## [5,]  -0.03378106  0.03195573 -0.01958611 -0.02101630  0.01276080
##
## $v[[637]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866182 -0.08265636  0.15480787  0.05868957 -0.03327458
## [2,]  -0.08265636  0.15367315 -0.05437254 -0.08013238  0.03223429
## [3,]   0.15480787 -0.05437254  0.11625140  0.04435836 -0.01991910
## [4,]   0.05868957 -0.08013238  0.04435836  0.10525384 -0.02125627
## [5,]  -0.03327458  0.03223429 -0.01991910 -0.02125627  0.04742823
##
## $v[[638]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865589 -0.08265951  0.15480887  0.05868957 -0.03356152
## [2,]  -0.08265951  0.15366880 -0.05436940 -0.08012023  0.03195461
## [3,]   0.15480887 -0.05436940  0.11624214  0.04434549 -0.01972416
## [4,]   0.05868957 -0.08012023  0.04434549  0.10564187 -0.02145028
## [5,]  -0.03356152  0.03195461 -0.01972416 -0.02145028  0.03048255
##
## $v[[639]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865916 -0.08265691  0.15481283  0.05868957 -0.03353088
## [2,]  -0.08265691  0.15367039 -0.05436911 -0.08012758  0.03207898
## [3,]   0.15481283 -0.05436911  0.11623857  0.04435765 -0.01953383
## [4,]   0.05868957 -0.08012758  0.04435765  0.10508025 -0.02116947
## [5,]  -0.03353088  0.03207898 -0.01953383 -0.02116947  0.02405963
##
## $v[[640]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865467 -0.08265926  0.15480895  0.05868753 -0.03370141
## [2,]  -0.08265926  0.15366878 -0.05436970 -0.08012696  0.03198105
## [3,]   0.15480895 -0.05436970  0.11624323  0.04435673 -0.01967903
## [4,]   0.05868753 -0.08012696  0.04435673  0.10495771 -0.02115926
## [5,]  -0.03370141  0.03198105 -0.01967903 -0.02115926  0.01663089
##
## $v[[641]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865385 -0.08265834  0.15481387  0.05869263 -0.03373511
## [2,]  -0.08265834  0.15367013 -0.05436785 -0.08012390  0.03201220
## [3,]   0.15481387 -0.05436785  0.11623854  0.04435693 -0.01949084
## [4,]   0.05869263 -0.08012390  0.04435693  0.10492197 -0.02099077
## [5,]  -0.03373511  0.03201220 -0.01949084 -0.02099077  0.01504303
##
## $v[[642]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866100 -0.08265799  0.15482345  0.05868753 -0.03341856
## [2,]  -0.08265799  0.15367642 -0.05435736 -0.08012942  0.03212779
## [3,]   0.15482345 -0.05435736  0.11626639  0.04433528 -0.01896312
## [4,]   0.05868753 -0.08012942  0.04433528  0.10503940 -0.02120010
## [5,]  -0.03341856  0.03212779 -0.01896312 -0.02120010  0.03102375
##
## $v[[643]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28865569 -0.08265812  0.15481328  0.05868753 -0.03357071
## [2,]  -0.08265812  0.15366965 -0.05436907 -0.08012033  0.03207449
## [3,]   0.15481328 -0.05436907  0.11623974  0.04433845 -0.01950768
## [4,]   0.05868753 -0.08012033  0.04433845  0.10515173 -0.02125627
## [5,]  -0.03357071  0.03207449 -0.01950768 -0.02125627  0.02853729
##
## $v[[644]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865732 -0.08265938  0.15481079  0.05868753 -0.03356152
## [2,]  -0.08265938  0.15366909 -0.05436941 -0.08012829  0.03198013
## [3,]   0.15481079 -0.05436941  0.11624011  0.04435857 -0.01964962
## [4,]   0.05868753 -0.08012829  0.04435857  0.10520278 -0.02128179
## [5,]  -0.03356152  0.03198013 -0.01964962 -0.02128179  0.02538710
##
## $v[[645]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866447 -0.08265242  0.15480936  0.05869161 -0.03319289
## [2,]  -0.08265242  0.15367932 -0.05436635 -0.08012063  0.03230496
## [3,]   0.15480936 -0.05436635  0.11625452  0.04435213 -0.01961613
## [4,]   0.05869161 -0.08012063  0.04435213  0.10532532 -0.02123074
## [5,]  -0.03319289  0.03230496 -0.01961613 -0.02123074  0.04590674
##
## $v[[646]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865324 -0.08265765  0.15481430  0.05869467 -0.03373409
## [2,]  -0.08265765  0.15367207 -0.05436532 -0.08012104  0.03207408
## [3,]   0.15481430 -0.05436532  0.11624768  0.04434549 -0.01940465
## [4,]   0.05869467 -0.08012104  0.04434549  0.10497303 -0.02089887
## [5,]  -0.03373409  0.03207408 -0.01940465 -0.02089887  0.01649814
##
## $v[[647]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865324 -0.08265928  0.15481305  0.05868957 -0.03378106
## [2,]  -0.08265928  0.15366901 -0.05436839 -0.08012584  0.03196574
## [3,]   0.15481305 -0.05436839  0.11623809  0.04435499 -0.01952474
## [4,]   0.05868957 -0.08012584  0.04435499  0.10490665 -0.02108267
## [5,]  -0.03378106  0.03196574 -0.01952474 -0.02108267  0.01281186
##
## $v[[648]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08265973  0.15481152  0.05869059 -0.03371162
## [2,]  -0.08265973  0.15366861 -0.05436875 -0.08012278  0.03195736
## [3,]   0.15481152 -0.05436875  0.11623865  0.04435509 -0.01958396
## [4,]   0.05869059 -0.08012278  0.04435509  0.10500366 -0.02110310
## [5,]  -0.03371162  0.03195736 -0.01958396 -0.02110310  0.01678406
##
## $v[[649]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865732 -0.08265812  0.15481736  0.05869059 -0.03360951
## [2,]  -0.08265812  0.15367069 -0.05436557 -0.08013033  0.03203517
## [3,]   0.15481736 -0.05436557  0.11624545  0.04435131 -0.01937535
## [4,]   0.05869059 -0.08013033  0.04435131  0.10501387 -0.02111331
## [5,]  -0.03360951  0.03203517 -0.01937535 -0.02111331  0.02029675
##
```

```
## $v[[650]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08265650  0.15481920  0.05869059 -0.03370550
## [2,]  -0.08265650  0.15367380 -0.05435942 -0.08012400  0.03211217
## [3,]   0.15481920 -0.05435942  0.11625603  0.04435397 -0.01924148
## [4,]   0.05869059 -0.08012400  0.04435397  0.10495260 -0.02107246
## [5,]  -0.03370550  0.03211217 -0.01924148 -0.02107246  0.01725378
##
## $v[[651]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865426 -0.08265871  0.15481019  0.05868855 -0.03371673
## [2,]  -0.08265871  0.15366917 -0.05436999 -0.08012594  0.03199964
## [3,]   0.15481019 -0.05436999  0.11624061  0.04435662 -0.01963175
## [4,]   0.05868855 -0.08012594  0.04435662  0.10494239 -0.02112862
## [5,]  -0.03371673  0.03199964 -0.01963175 -0.02112862  0.01588036
##
## $v[[652]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865630 -0.08265675  0.15480999  0.05868753 -0.03365138
## [2,]  -0.08265675  0.15367156 -0.05436967 -0.08012748  0.03205008
## [3,]   0.15480999 -0.05436967  0.11624245  0.04435785 -0.01964074
## [4,]   0.05868753 -0.08012748  0.04435785  0.10496792 -0.02118479
## [5,]  -0.03365138  0.03205008 -0.01964074 -0.02118479  0.01816769
##
## $v[[653]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865528 -0.08265616  0.15481542  0.05868957 -0.03367384
## [2,]  -0.08265616  0.15367338 -0.05436333 -0.08012901  0.03210400
## [3,]   0.15481542 -0.05436333  0.11624807  0.04434498 -0.01942232
## [4,]   0.05868957 -0.08012901  0.04434498  0.10494750 -0.02110310
## [5,]  -0.03367384  0.03210400 -0.01942232 -0.02110310  0.01781030
##
## $v[[654]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865446 -0.08265979  0.15481847  0.05868957 -0.03372796
## [2,]  -0.08265979  0.15367025 -0.05436769 -0.08012186  0.03196165
## [3,]   0.15481847 -0.05436769  0.11625131  0.04435295 -0.01934400
## [4,]   0.05868957 -0.08012186  0.04435295  0.10492708 -0.02109288
## [5,]  -0.03372796  0.03196165 -0.01934400 -0.02109288  0.01485412
##
## $v[[655]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865487 -0.08265942  0.15480962  0.05868753 -0.03369222
## [2,]  -0.08265942  0.15366875 -0.05436931 -0.08012492  0.03197299
## [3,]   0.15480962 -0.05436931  0.11624135  0.04435897 -0.01964891
## [4,]   0.05868753 -0.08012492  0.04435897  0.10503940 -0.02120010
## [5,]  -0.03369222  0.03197299 -0.01964891 -0.02120010  0.01706487
##
## $v[[656]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866018 -0.08265221  0.15481252  0.05868855 -0.03320616
## [2,]  -0.08265221  0.15367868 -0.05436397 -0.08013554  0.03246150
## [3,]   0.15481252 -0.05436397  0.11624994  0.04434110 -0.01963002
## [4,]   0.05868855 -0.08013554  0.04434110  0.10508535 -0.02121542
```

```
## [5,] -0.03320616  0.03246150 -0.01963002 -0.02121542  0.05854325
##
## $v[[657]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865324 -0.08265926  0.15481173  0.05868855 -0.03376778
## [2,] -0.08265926  0.15366879 -0.05436908 -0.08012584  0.03197186
## [3,]  0.15481173 -0.05436908  0.11623878  0.04435560 -0.01956221
## [4,]  0.05868855 -0.08012584  0.04435560  0.10490155 -0.02110820
## [5,] -0.03376778  0.03197186 -0.01956221 -0.02110820  0.01349091
##
## $v[[658]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865406 -0.08265773  0.15481175  0.05868957 -0.03373102
## [2,] -0.08265773  0.15367185 -0.05436830 -0.08012860  0.03203497
## [3,]  0.15481175 -0.05436830  0.11623966  0.04435193 -0.01956160
## [4,]  0.05868957 -0.08012860  0.04435193  0.10491687 -0.02108778
## [5,] -0.03373102  0.03203497 -0.01956160 -0.02108778  0.01506345
##
## $v[[659]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866447 -0.08264976  0.15481661  0.05869774 -0.03295598
## [2,] -0.08264976  0.15368034 -0.05434983 -0.08012635  0.03268165
## [3,]  0.15481661 -0.05434983  0.11632651  0.04431874 -0.01916520
## [4,]  0.05869774 -0.08012635  0.04431874  0.10513130 -0.02086824
## [5,] -0.03295598  0.03268165 -0.01916520 -0.02086824  0.07624457
##
## $v[[660]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865589 -0.08265828  0.15481397  0.05868651 -0.03366159
## [2,] -0.08265828  0.15366956 -0.05436773 -0.08012870  0.03200842
## [3,]  0.15481397 -0.05436773  0.11624002  0.04435029 -0.01948747
## [4,]  0.05868651 -0.08012870  0.04435029  0.10498324 -0.02118989
## [5,] -0.03366159  0.03200842 -0.01948747 -0.02118989  0.01790220
##
## $v[[661]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865998 -0.08265272  0.15480913  0.05869570 -0.03340835
## [2,] -0.08265272  0.15368241 -0.05436120 -0.08012084  0.03236010
## [3,]  0.15480913 -0.05436120  0.11625789  0.04434529 -0.01961347
## [4,]  0.05869570 -0.08012084  0.04434529  0.10496792 -0.02083760
## [5,] -0.03340835  0.03236010 -0.01961347 -0.02083760  0.03258608
##
## $v[[662]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865610 -0.08265993  0.15481193  0.05868855 -0.03361053
## [2,] -0.08265993  0.15366854 -0.05436876 -0.08012707  0.03195267
## [3,]  0.15481193 -0.05436876  0.11623870  0.04436051 -0.01957385
## [4,]  0.05868855 -0.08012707  0.04436051  0.10503430 -0.02117457
## [5,] -0.03361053  0.03195267 -0.01957385 -0.02117457  0.02194588
##
## $v[[663]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866345 -0.08265187  0.15481377  0.05869263 -0.03318165
## [2,] -0.08265187  0.15368085 -0.05436270 -0.08014330  0.03258771
```

```
## [3,]   0.15481377 -0.05436270  0.11627152  0.04432313 -0.01943427
## [4,]   0.05869263 -0.08014330  0.04432313  0.10536106 -0.02121031
## [5,]  -0.03318165  0.03258771 -0.01943427 -0.02121031  0.05448936
##
## $v[[664]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866467 -0.08265401  0.15480740  0.05869467 -0.03317553
## [2,]  -0.08265401  0.15367515 -0.05436715 -0.08013146  0.03224665
## [3,]   0.15480740 -0.05436715  0.11625343  0.04433406 -0.01967117
## [4,]   0.05869467 -0.08013146  0.04433406  0.10515683 -0.02104183
## [5,]  -0.03317553  0.03224665 -0.01967117 -0.02104183  0.04621819
##
## $v[[665]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865303 -0.08265877  0.15481156  0.05869059 -0.03376472
## [2,]  -0.08265877  0.15366953 -0.05436965 -0.08012472  0.03199453
## [3,]   0.15481156 -0.05436965  0.11623909  0.04435479 -0.01957569
## [4,]   0.05869059 -0.08012472  0.04435479  0.10490155 -0.02104183
## [5,]  -0.03376472  0.03199453 -0.01957569 -0.02104183  0.01392489
##
## $v[[666]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865773 -0.08265818  0.15481207  0.05868855 -0.03348493
## [2,]  -0.08265818  0.15366932 -0.05436897 -0.08012696  0.03203701
## [3,]   0.15481207 -0.05436897  0.11623892  0.04435070 -0.01960224
## [4,]   0.05868855 -0.08012696  0.04435070  0.10523852 -0.02127158
## [5,]  -0.03348493  0.03203701 -0.01960224 -0.02127158  0.03441901
##
## $v[[667]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865712 -0.08265712  0.15481632  0.05868753 -0.03356458
## [2,]  -0.08265712  0.15367312 -0.05436302 -0.08012993  0.03207449
## [3,]   0.15481632 -0.05436302  0.11624687  0.04434519 -0.01937841
## [4,]   0.05868753 -0.08012993  0.04434519  0.10493729 -0.02117968
## [5,]  -0.03356458  0.03207449 -0.01937841 -0.02117968  0.02379924
##
## $v[[668]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865548 -0.08265940  0.15481497  0.05868957 -0.03368201
## [2,]  -0.08265940  0.15366950 -0.05436681 -0.08012737  0.03196318
## [3,]   0.15481497 -0.05436681  0.11624260  0.04435274 -0.01947348
## [4,]   0.05868957 -0.08012737  0.04435274  0.10495771 -0.02110820
## [5,]  -0.03368201  0.03196318 -0.01947348 -0.02110820  0.01690149
##
## $v[[669]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865814 -0.08265834  0.15481740  0.05869059 -0.03356356
## [2,]  -0.08265834  0.15367077 -0.05436558 -0.08012360  0.03200433
## [3,]   0.15481740 -0.05436558  0.11625479  0.04435908 -0.01938300
## [4,]   0.05869059 -0.08012360  0.04435908  0.10506493 -0.02112862
## [5,]  -0.03356356  0.03200433 -0.01938300 -0.02112862  0.02246666
##
## $v[[670]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
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## [1,]   0.28865773 -0.08265693  0.15481898  0.05868957 -0.03356152
## [2,]  -0.08265693  0.15367513 -0.05436531 -0.08012502  0.03208654
## [3,]   0.15481898 -0.05436531  0.11625291  0.04437766 -0.01929192
## [4,]   0.05868957 -0.08012502  0.04437766  0.10504961 -0.02115415
## [5,]  -0.03356152  0.03208654 -0.01929192 -0.02115415  0.02374308
##
## $v[[671]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865508 -0.08265916  0.15481422  0.05868855 -0.03367180
## [2,]  -0.08265916  0.15366882 -0.05436841 -0.08012431  0.03198677
## [3,]   0.15481422 -0.05436841  0.11623892  0.04435438 -0.01947419
## [4,]   0.05868855 -0.08012431  0.04435438  0.10495260 -0.02113884
## [5,]  -0.03367180  0.03198677 -0.01947419 -0.02113884  0.01826981
##
## $v[[672]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865937 -0.08265869  0.15480241  0.05868957 -0.03342366
## [2,]  -0.08265869  0.15366908 -0.05437055 -0.08012063  0.03201128
## [3,]   0.15480241 -0.05437055  0.11625393  0.04435438 -0.02001805
## [4,]   0.05868957 -0.08012063  0.04435438  0.10516194 -0.02121031
## [5,]  -0.03342366  0.03201128 -0.02001805 -0.02121031  0.03351020
##
## $v[[673]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865569 -0.08265871  0.15480664  0.05868957 -0.03367895
## [2,]  -0.08265871  0.15366903 -0.05437063 -0.08012308  0.03199147
## [3,]   0.15480664 -0.05437063  0.11624755  0.04435489 -0.01972907
## [4,]   0.05868957 -0.08012308  0.04435489  0.10495771 -0.02110820
## [5,]  -0.03367895  0.03199147 -0.01972907 -0.02110820  0.01697808
##
## $v[[674]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865916 -0.08265814  0.15480131  0.05868855 -0.03359521
## [2,]  -0.08265814  0.15366963 -0.05437038 -0.08012686  0.03200352
## [3,]   0.15480131 -0.05437038  0.11625892  0.04435734 -0.01986927
## [4,]   0.05868855 -0.08012686  0.04435734  0.10494239 -0.02112862
## [5,]  -0.03359521  0.03200352 -0.01986927 -0.02112862  0.01858125
##
## $v[[675]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265748  0.15482049  0.05868957 -0.03351250
## [2,]  -0.08265748  0.15367105 -0.05436603 -0.08012717  0.03208112
## [3,]   0.15482049 -0.05436603  0.11625308  0.04435080 -0.01901611
## [4,]   0.05868957 -0.08012717  0.04435080  0.10515173 -0.02120521
## [5,]  -0.03351250  0.03208112 -0.01901611 -0.02120521  0.03197340
##
## $v[[676]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866182 -0.08265534  0.15480282  0.05868855 -0.03333074
## [2,]  -0.08265534  0.15367267 -0.05437202 -0.08012921  0.03216680
## [3,]   0.15480282 -0.05437202  0.11625128  0.04434815 -0.01998884
## [4,]   0.05868855 -0.08012921  0.04434815  0.10503430 -0.02116947
## [5,]  -0.03333074  0.03216680 -0.01998884 -0.02116947  0.03709948
##
```

```
## $v[[677]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865385 -0.08265861  0.15480993  0.05869059 -0.03375043
## [2,]  -0.08265861  0.15366934 -0.05437036 -0.08012472  0.03199137
## [3,]   0.15480993 -0.05437036  0.11624148  0.04435407 -0.01961409
## [4,]   0.05869059 -0.08012472  0.04435407  0.10491176 -0.02105714
## [5,]  -0.03375043  0.03199137 -0.01961409 -0.02105714  0.01400658
##
## $v[[678]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866365 -0.08265127  0.15480842  0.05869672 -0.03317042
## [2,]  -0.08265127  0.15368348 -0.05436322 -0.08012870  0.03246098
## [3,]   0.15480842 -0.05436322  0.11625557  0.04433896 -0.01964053
## [4,]   0.05869672 -0.08012870  0.04433896  0.10500366 -0.02086313
## [5,]  -0.03317042  0.03246098 -0.01964053 -0.02086313  0.04877612
##
## $v[[679]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865589 -0.08265430  0.15481528  0.05869263 -0.03356458
## [2,]  -0.08265430  0.15367972 -0.05435927 -0.08013340  0.03228811
## [3,]   0.15481528 -0.05435927  0.11624968  0.04433436 -0.01938229
## [4,]   0.05869263 -0.08013340  0.04433436  0.10506493 -0.02104693
## [5,]  -0.03356458  0.03228811 -0.01938229 -0.02104693  0.02801651
##
## $v[[680]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865998 -0.08265669  0.15481152  0.05869161 -0.03331236
## [2,]  -0.08265669  0.15367422 -0.05436576 -0.08013381  0.03215842
## [3,]   0.15481152 -0.05436576  0.11624226  0.04435642 -0.01959152
## [4,]   0.05869161 -0.08013381  0.04435642  0.10517215 -0.02116436
## [5,]  -0.03331236  0.03215842 -0.01959152 -0.02116436  0.04791327
##
## $v[[681]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28867101 -0.08265546  0.15481454  0.05869263 -0.03278954
## [2,]  -0.08265546  0.15367617 -0.05436965 -0.08011420  0.03221663
## [3,]   0.15481454 -0.05436965  0.11625365  0.04433763 -0.01937667
## [4,]   0.05869263 -0.08011420  0.04433763  0.10509556 -0.02107757
## [5,]  -0.03278954  0.03221663 -0.01937667 -0.02107757  0.06918345
##
## $v[[682]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865406 -0.08265771  0.15481277  0.05869365 -0.03372796
## [2,]  -0.08265771  0.15367072 -0.05436890 -0.08012165  0.03202925
## [3,]   0.15481277 -0.05436890  0.11623960  0.04435377 -0.01951657
## [4,]   0.05869365 -0.08012165  0.04435377  0.10491687 -0.02094482
## [5,]  -0.03372796  0.03202925 -0.01951657 -0.02094482  0.01538511
##
## $v[[683]]
##               [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865365 -0.08266002  0.15481289  0.05869059 -0.03374532
## [2,]  -0.08266002  0.15366849 -0.05436867 -0.08012554  0.03194909
## [3,]   0.15481289 -0.05436867  0.11623797  0.04435530 -0.01952658
## [4,]   0.05869059 -0.08012554  0.04435530  0.10492197 -0.02106225
```

```
## [5,] -0.03374532  0.03194909 -0.01952658 -0.02106225  0.01456310
##
## $v[[684]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866284 -0.08265481  0.15482400  0.05868753 -0.03327049
## [2,] -0.08265481  0.15369036 -0.05435794 -0.08012942  0.03232742
## [3,]  0.15482400 -0.05435794  0.11627901  0.04432824 -0.01896148
## [4,]  0.05868753 -0.08012942  0.04432824  0.10500877 -0.02119500
## [5,] -0.03327049  0.03232742 -0.01896148 -0.02119500  0.04104616
##
## $v[[685]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866059 -0.08265442  0.15481205  0.05869059 -0.03325722
## [2,] -0.08265442  0.15367424 -0.05436856 -0.08012288  0.03235816
## [3,]  0.15481205 -0.05436856  0.11624236  0.04437613 -0.01956814
## [4,]  0.05869059 -0.08012288  0.04437613  0.10525894 -0.02123074
## [5,] -0.03325722  0.03235816 -0.01956814 -0.02123074  0.05063969
##
## $v[[686]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865548 -0.08265777  0.15481726  0.05868957 -0.03368507
## [2,] -0.08265777  0.15367021 -0.05436647 -0.08012319  0.03202639
## [3,]  0.15481726 -0.05436647  0.11624769  0.04435009 -0.01935523
## [4,]  0.05868957 -0.08012319  0.04435009  0.10494750 -0.02110310
## [5,] -0.03368507  0.03202639 -0.01935523 -0.02110310  0.01667174
##
## $v[[687]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865426 -0.08265601  0.15481673  0.05869059 -0.03370141
## [2,] -0.08265601  0.15367579 -0.05436088 -0.08012268  0.03211645
## [3,]  0.15481673 -0.05436088  0.11624690  0.04435622 -0.01936432
## [4,]  0.05869059 -0.08012268  0.04435622  0.10495260 -0.02106736
## [5,] -0.03370141  0.03211645 -0.01936432 -0.02106736  0.01714146
##
## $v[[688]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865610 -0.08265850  0.15480946  0.05869059 -0.03367997
## [2,] -0.08265850  0.15366932 -0.05436992 -0.08012349  0.03198851
## [3,]  0.15480946 -0.05436992  0.11624066  0.04435295 -0.01962757
## [4,]  0.05869059 -0.08012349  0.04435295  0.10495260 -0.02108267
## [5,] -0.03367997  0.03198851 -0.01962757 -0.02108267  0.01636029
##
## $v[[689]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28865406 -0.08265846  0.15480664  0.05869059 -0.03371060
## [2,] -0.08265846  0.15366955 -0.05437246 -0.08012462  0.03201965
## [3,]  0.15480664 -0.05437246  0.11625315  0.04435417 -0.01979809
## [4,]  0.05869059 -0.08012462  0.04435417  0.10494239 -0.02106225
## [5,] -0.03371060  0.03201965 -0.01979809 -0.02106225  0.01675853
##
## $v[[690]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]  0.28866182 -0.08265567  0.15480137  0.05869059 -0.03349616
## [2,] -0.08265567  0.15367083 -0.05437222 -0.08012339  0.03208490
```

```
## [3,]   0.15480137 -0.05437222  0.11625808  0.04435642 -0.01992145
## [4,]   0.05869059 -0.08012339  0.04435642  0.10495260 -0.02107757
## [5,]  -0.03349616  0.03208490 -0.01992145 -0.02107757  0.02275258
##
## $v[[691]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865548 -0.08265873  0.15480874  0.05868753 -0.03369120
## [2,]  -0.08265873  0.15366937 -0.05437010 -0.08012502  0.03199657
## [3,]   0.15480874 -0.05437010  0.11624228  0.04435622 -0.01966300
## [4,]   0.05868753 -0.08012502  0.04435622  0.10492708 -0.02114394
## [5,]  -0.03369120  0.03199657 -0.01966300 -0.02114394  0.01619180
##
## $v[[692]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865283 -0.08265961  0.15481191  0.05868855 -0.03376574
## [2,]  -0.08265961  0.15366859 -0.05436892 -0.08012625  0.03196563
## [3,]   0.15481191 -0.05436892  0.11623855  0.04435520 -0.01956415
## [4,]   0.05868855 -0.08012625  0.04435520  0.10500366 -0.02115926
## [5,]  -0.03376574  0.03196563 -0.01956415 -0.02115926  0.01423634
##
## $v[[693]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865875 -0.08265558  0.15481258  0.05868957 -0.03359828
## [2,]  -0.08265558  0.15367222 -0.05436818 -0.08012186  0.03208633
## [3,]   0.15481258 -0.05436818  0.11623947  0.04435857 -0.01954169
## [4,]   0.05868957 -0.08012186  0.04435857  0.10501898 -0.02113884
## [5,]  -0.03359828  0.03208633 -0.01954169 -0.02113884  0.01925009
##
## $v[[694]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865222 -0.08266016  0.15481240  0.05868855 -0.03379944
## [2,]  -0.08266016  0.15366854 -0.05436857 -0.08012492  0.03194531
## [3,]   0.15481240 -0.05436857  0.11623811  0.04435601 -0.01954148
## [4,]   0.05868855 -0.08012492  0.04435601  0.10490155 -0.02110820
## [5,]  -0.03379944  0.03194531 -0.01954148 -0.02110820  0.01251573
##
## $v[[695]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28866079 -0.08265589  0.15480723  0.05869059 -0.03340630
## [2,]  -0.08265589  0.15367168 -0.05437001 -0.08012564  0.03217313
## [3,]   0.15480723 -0.05437001  0.11624314  0.04435479 -0.01975092
## [4,]   0.05869059 -0.08012564  0.04435479  0.10506493 -0.02113373
## [5,]  -0.03340630  0.03217313 -0.01975092 -0.02113373  0.03278009
##
## $v[[696]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865589 -0.08265908  0.15481119  0.05868855 -0.03360542
## [2,]  -0.08265908  0.15366898 -0.05436881 -0.08012380  0.03200740
## [3,]   0.15481119 -0.05436881  0.11623900  0.04436183 -0.01960398
## [4,]   0.05868855 -0.08012380  0.04436183  0.10511599 -0.02121031
## [5,]  -0.03360542  0.03200740 -0.01960398 -0.02121031  0.02363586
##
## $v[[697]]
##             [,1]        [,2]        [,3]        [,4]        [,5]
```

```
## [1,]   0.28865814 -0.08265652  0.15481704  0.05869161 -0.03358909
## [2,]  -0.08265652  0.15367108 -0.05436628 -0.08012431  0.03206816
## [3,]   0.15481704 -0.05436628  0.11624253  0.04435918 -0.01938117
## [4,]   0.05869161 -0.08012431  0.04435918  0.10492708 -0.02102141
## [5,]  -0.03358909  0.03206816 -0.01938117 -0.02102141  0.02005168
##
## $v[[698]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865426 -0.08265863  0.15481168  0.05868548 -0.03369835
## [2,]  -0.08265863  0.15366931 -0.05436930 -0.08012615  0.03201312
## [3,]   0.15481168 -0.05436930  0.11623845  0.04435581 -0.01958131
## [4,]   0.05868548 -0.08012615  0.04435581  0.10494750 -0.02124605
## [5,]  -0.03369835  0.03201312 -0.01958131 -0.02124605  0.01745290
##
## $v[[699]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865569 -0.08265891  0.15481518  0.05868753 -0.03368201
## [2,]  -0.08265891  0.15366896 -0.05436807 -0.08012523  0.03198003
## [3,]   0.15481518 -0.05436807  0.11623958  0.04435520 -0.01944836
## [4,]   0.05868753 -0.08012523  0.04435520  0.10493729 -0.02114905
## [5,]  -0.03368201  0.03198003 -0.01944836 -0.02114905  0.01672790
##
## $v[[700]]
##              [,1]        [,2]        [,3]        [,4]        [,5]
## [1,]   0.28865671 -0.08265669  0.15481994  0.05868957 -0.03358398
## [2,]  -0.08265669  0.15367205 -0.05436459 -0.08012145  0.03210573
## [3,]   0.15481994 -0.05436459  0.11625953  0.04434886 -0.01919736
## [4,]   0.05868957 -0.08012145  0.04434886  0.10495771 -0.02110820
## [5,]  -0.03358398  0.03210573 -0.01919736 -0.02110820  0.02284448
```
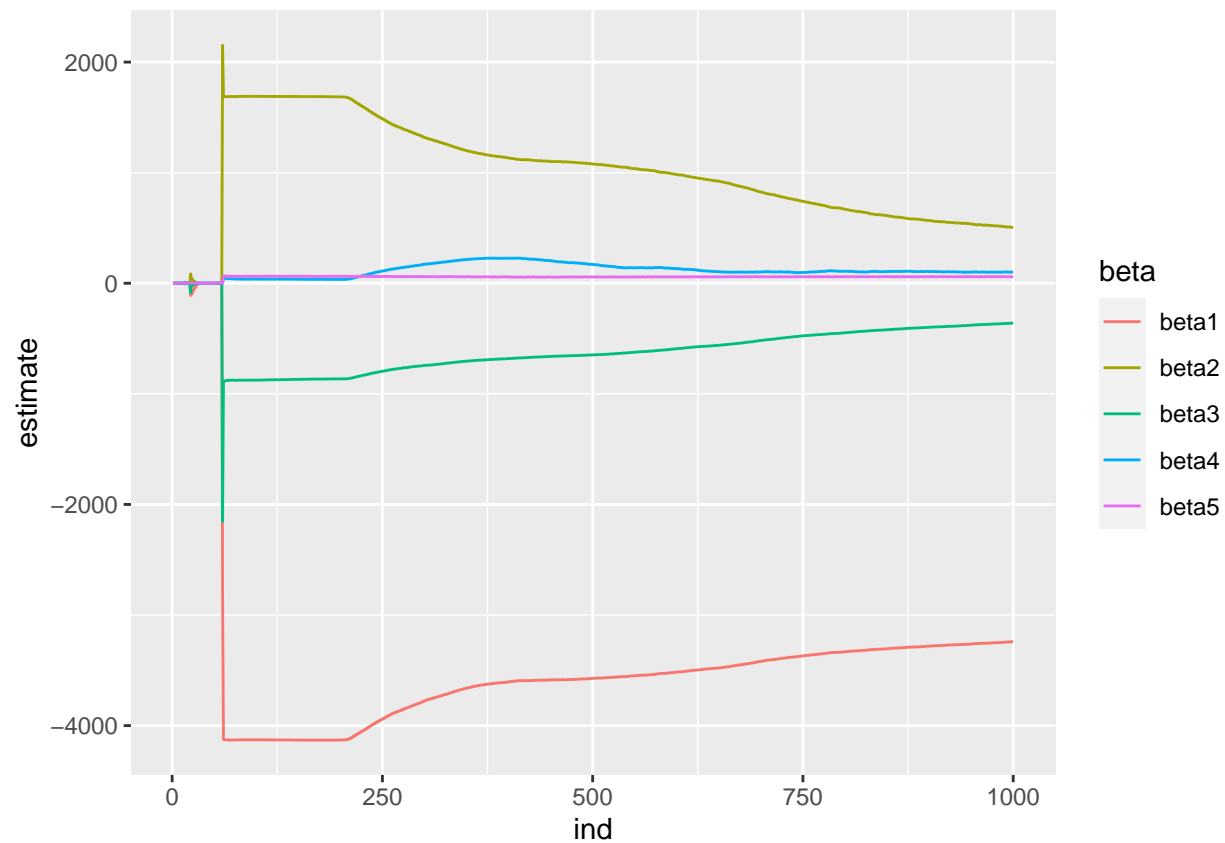
```r
# function to extract beta values from gibbs output
beta_compiler <- function(list){
  beta_res_list <- list()

  for (i in 1:length(list)){
    beta_res_list[[i]] <- list[[i]]$beta
  }

  return(beta_res_list)
}
# visualizing beta values
beta_res_list <- beta_compiler(list = test$beta)
beta_vec <- data.frame(do.call(rbind, beta_res_list)) %>%
  rename(beta1 = 1, beta2 = 2, beta3 = 3, beta4 = 4, beta5 = 5) %>%
  pivot_longer(cols = beta1:beta5, names_to = "beta", values_to = "estimate") %>%
  group_by(beta) %>%
  mutate(ind = c(1:length(beta_res_list)))

ggplot(data = beta_vec, aes(y = estimate, col = beta)) +
  geom_line(aes(ind))
```
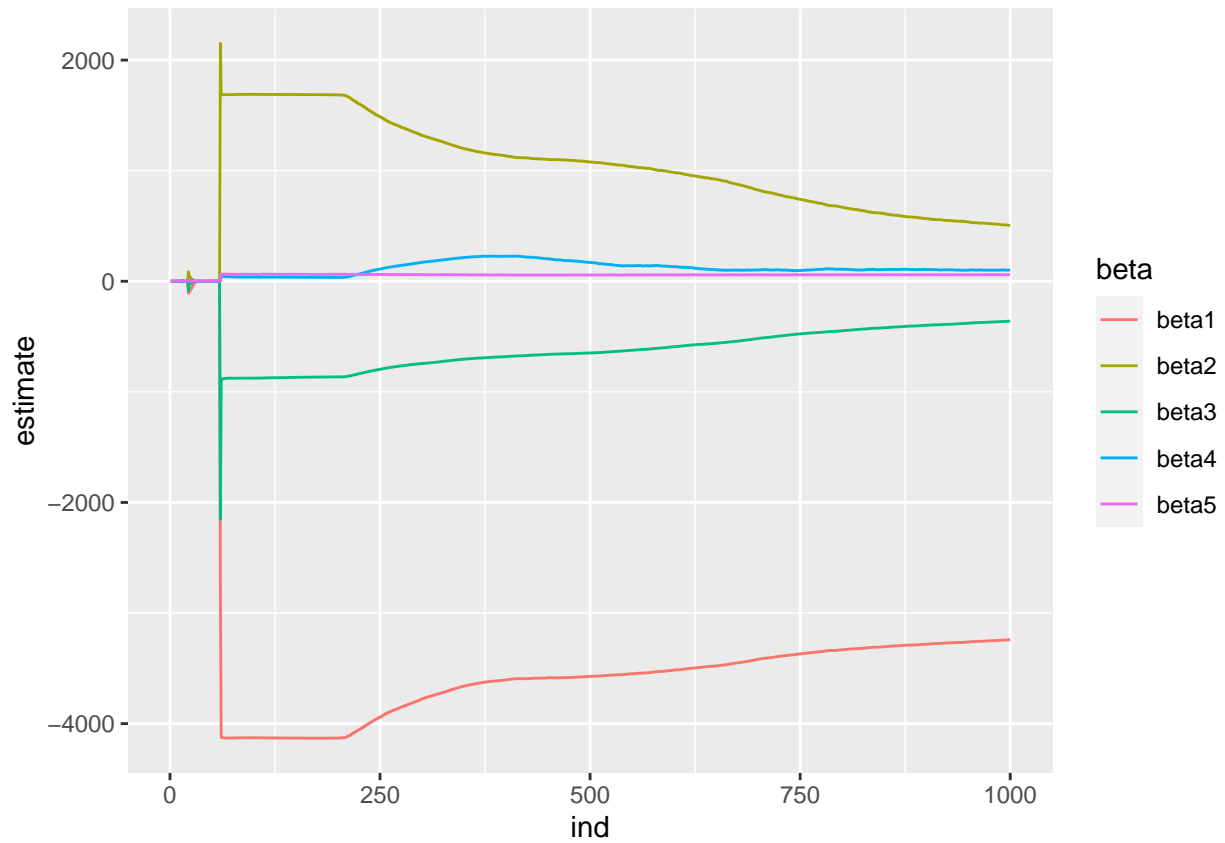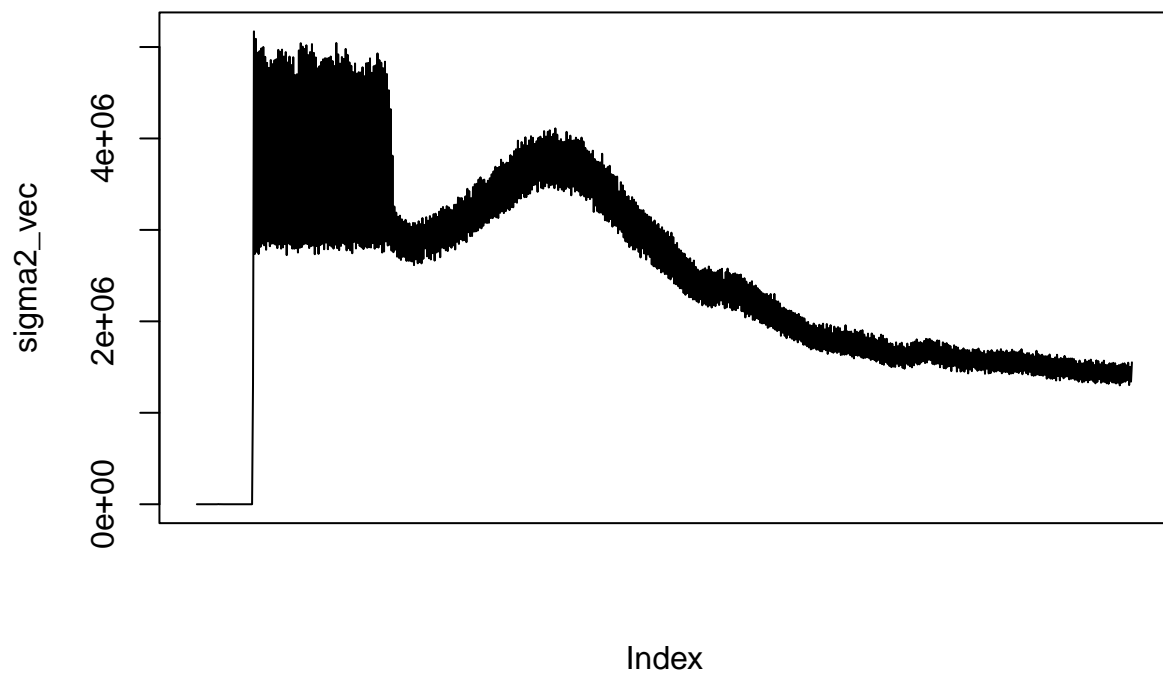
```r
# zooming in on end of graph
ggplot(data = beta_vec, aes(y = estimate, col = beta)) +
  geom_line(aes(ind)) +
  coord_cartesian(xlim = c(0, length(beta_res_list)))
```
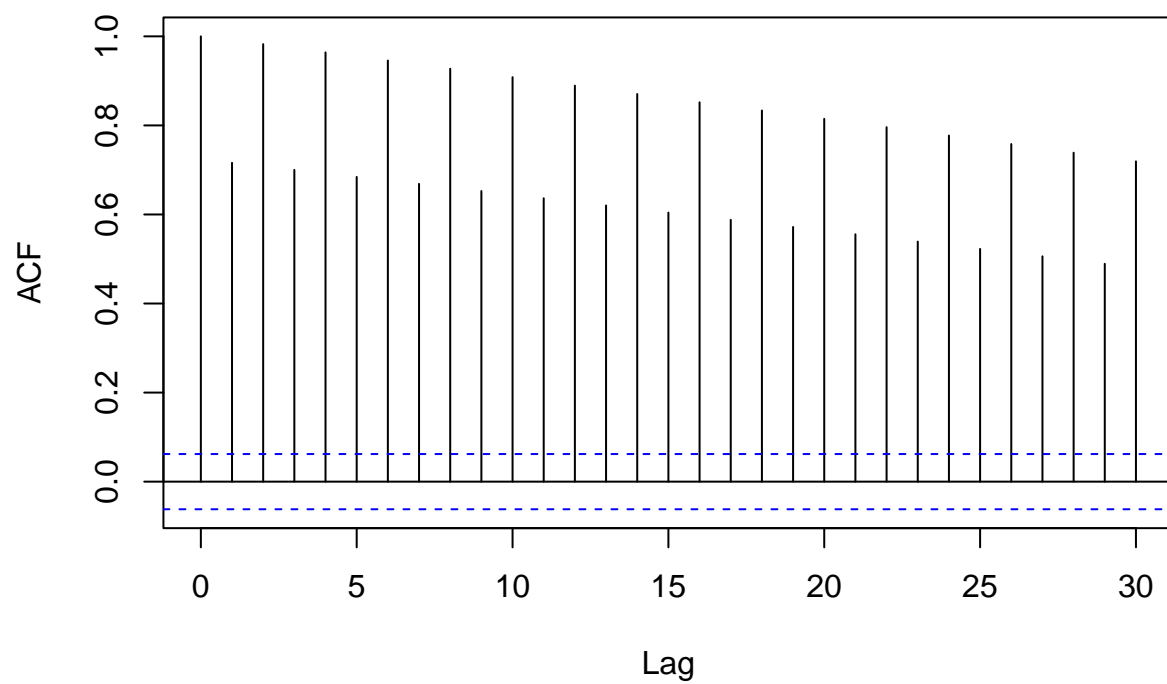
```r
# visualizing sigma2 and sigma values
sigma2_vec <- do.call(rbind, test$sigma2)
plot(x = sigma2_vec, xaxt = "n", type = "l")
```

```
acf(sigma2_vec, pl = TRUE)
```

Series 1


```r
sigma_sum_vec <- do.call(rbind, lapply(test$sigma_m, sum))
plot(x = sigma_sum_vec, type = "l")
```