CaseStudy3

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Setup

Setting up the dataset and the actual data realization information into accessible variables for analysis.

```
# Assuming the data is from the same working directory as this file
gene <- read.table("hcmv.txt", header=TRUE)</pre>
# Actual data
N <- 229354
                 # Population size
n <- 296
                 # Sample number of palindromes
editGene <- gene
site.random <- editGene[["location"]]</pre>
# Display the data
site.random
            177
##
     [1]
                   1321
                          1433
                                 1477
                                         3248
                                                3255
                                                       3286
                                                               7263
                                                                      9023
                                                                             9084
                                                                     16752
##
    [11]
           9333
                  10884
                         11754
                                12863
                                        14263
                                               14719
                                                      16013
                                                              16425
                                                                             16812
##
    [21]
          18009
                  19176
                         19325
                                19415
                                        20030
                                               20832
                                                      22027
                                                              22739
                                                                     22910
                                                                            23241
          25949
                 28665
                         30378
                                30990
                                               32923
                                                      34103
                                                              34398
##
    [31]
                                        31503
                                                                     34403
                                                                            34723
##
    [41]
          36596
                 36707
                         38626
                                40554
                                        41100
                                               41222
                                                      42376
                                                              43475
                                                                     43696
                                                                            45188
##
    [51]
          47905
                 48279
                         48370
                                48699
                                        51170
                                               51461
                                                      52243
                                                              52629
                                                                     53439
                                                                            53678
                                55075
                 54037
                         54142
                                       56695
                                               57123
                                                      60068
                                                              60374
                                                                     60552
##
    [61]
          54012
                                                                            61441
##
    [71]
          62946
                 63003
                         63023
                                63549
                                        63769
                                               64502
                                                      65555
                                                              65789
                                                                     65802
                                                                            66015
##
    [81]
          67605
                 68221
                         69733
                                70800
                                       71257
                                               72220
                                                      72553
                                                              74053
                                                                     74059
                                                                            74541
    [91]
          75622
                 75775
                         75812
                                75878
                                        76043
                                               76124
                                                      77642
                                                              79724
                                                                     83033
                 85529
## [101]
          85513
                         85640
                                86131
                                        86137
                                               87717
                                                      88803
                                                              89586
                                                                     90251
                                                                            90763
   [111]
          91490
                 91637
                         91953
                                92526
                                        92570
                                               92643
                                                      92701
                                                              92709
                                                                     92747
                                                                            92783
                                                                     98493
   [121]
          92859
                 93110
                         93250
                                93511
                                        93601
                                               94174
                                                      95975
                                                              97488
                                                                            98908
  [131]
          99709 100864 102139 102268 102711 104363 104502 105534 107414 108123
## [141] 109185 110224 113378 114141 115627 115794 115818 117097 118555 119665
## [151] 119757 119977 120411 120432 121370 124714 125546 126815 127024 127046
## [161] 127587 128801 129057 129537 131200 131734 133040 134221 135361 136051
## [171] 136405 136578 136870 137380 137593 137695 138111 139080 140579 141201
## [181] 141994 142416 142991 143252 143549 143555 143738 146667 147612 147767
## [191] 147878 148533 148821 150056 151314 151806 152045 152222 152331 154471
## [201] 155073 155918 157617 161041 161316 162682 162703 162715 163745 163995
## [211] 164072 165071 165883 165891 165931 166372 168261 168710 168815 170345
## [221] 170988 170989 171607 173863 174049 174132 174185 174260 177727 177956
## [231] 178574 180125 180374 180435 182195 186172 186203 186210 187981 188025
## [241] 188137 189281 189810 190918 190985 190996 191298 192527 193447 193902
## [251] 194111 195032 195112 195117 195151 195221 195262 195835 196992 197022
## [261] 197191 198195 198709 201023 201056 202198 204548 205503 206000 207527
## [271] 207788 207898 208572 209876 210469 215802 216190 216292 216539 217076
## [281] 220549 221527 221949 222159 222573 222819 223001 223544 224994 225812
```

[291] 226936 227238 227249 227316 228424 228953

The Data

Here a strip plot is shown to visualize where palindromes are distributed, by laying out all possible palindrome location sites and displaying binary values representative of palindrome occurances.

```
library(lattice)
stripplot(site.random, pch=16, cex=0.25, xlab="Palindrome Location (Actualized Data)")

0 50000 100000 150000 200000

Palindrome Location (Actualized Data)
```

Testing

Uniform Random Distribution by Simple Random Sampling

```
# Pseudo data for simulation
set.seed(22217)
                    # Setting seed for the date at which this analysis was performed
gene <- seq(1, N)
# Produce simple random sample
site.random <- sample.int(N, size=n)</pre>
site.random
                               83367 72973 91865 106758 15113
     [1] 174949
                85198 54658
                                                                  19546 119591
        96009 164114 157638
                                                                  53671
                               70997 220364 144722 131728 181859
    [21] 130697 124433 72012 190519 183051 95948 123480 224920 204215 225734
##
    [31]
                26994 215341 172002 131893 142875
                                                    15731 186370 206710
##
    [41]
         89768 133009 196581 215916 97206 135873
                                                    57820
                                                          16730
                                                                  21534
                       91087 148991 129680 189277
    [51] 175670 100715
                                                    47631 157104
                                                                 70484
                        63919 124143 67861 225315 204752
                                                            2902 208373 225741
##
    [61] 105306
                 41189
    [71] 208412
                82017
                        18803
                               90473 86555 166688 194563
                                                             677
                                                                  23050 154151
```

```
[81] 199346 151015 112659
                                67559 221899 188870
                                                      91449 136312 118009 112991
##
    [91] 177821
                 22628
                         40832 174562 133071 174368 190177 107483
                                                                    98033
                                                                           25099
   [101] 156135 146687
                         43177
                                56412
                                       54455
                                               46738
                                                      29438 190864 207306 166013
   [111]
          24206
                         83949 161648 199413
                                                      60911 225348 101947 153596
                 23508
                                               15621
   [121]
          38596
                 40275 165459
                                80415
                                      133956
                                               78921 190555 211874 108806 183468
   [131] 166963 138078 194812 111652
                                       41423
                                               81951 103166
                                                             62846 173352
   [141] 185794 217170
                         56090
                                34055
                                        38986
                                               92882 147599
                                                             51325
                                                                     32614
   [151]
          76009 107916 146298 101794
                                       19782
                                                5773
                                                      93454 119658 170997 179921
   [161] 152061 102443
                          5355 205314 164279 199427
                                                      81979 119920 169866
                                                                            19893
   [171]
          50119 127009
                         30217 128574 125884 184474
                                                      11390 113468 131415 145078
   [181]
          57659 129479 152350 104617 138299 178905 166946 105186
                                                                     29061 227086
   [191]
          39966
                 66443
                         18149
                                31320
                                      166789
                                               75231
                                                     218477 100994 183115
   [201] 214790 148054
                         17754
                                27584 205823
                                               36830 215960 152500 153030 159426
   [211] 173815 112666
                         46851
                                49676
                                      161107
                                               69637
                                                      11329 221523 228302
                                31336
   [221] 180094 124225 220926
                                        41832
                                               34085
                                                       8653 101249
                                                                     72057 159021
   [231]
          33585
                160137
                        190886 147808
                                       45605
                                             162896
                                                      50239
                                                             47843 211100
   [241] 192546
                 83934
                         13614
                                81505 151623 182934 215324 211606 228835 168165
   [251] 115714
                  45974
                         75841
                                 9223
                                        40997 155648 203873 186298
                                                                     99977 109712
   [261]
          94906
                 97925
                       103631 161921
                                       65500 199918 129636
                                                               3849 101848
                                                                            11221
   [271] 175712
                 22927
                           163
                                51070
                                       95523
                                               69072 164911 173253
                                                                     68029 218164
  [281] 189971 107415
                         21279 185108 178498 155443 137114
                                                             14635
                                                                     56735 200160
                 66517 122735
                                83140 155824 108215
          21943
```

Plotting the uniform random distribution with a strip plot, we can compare it to the actualized data above.

```
library(lattice)
stripplot(site.random, pch=16, cex=0.25, xlab="Palindrome Location (Simple Random Simulation)")

0 50000 100000 150000 200000

Palindrome Location (Simple Random Simulation)
```

It's easy to notice that while although similar, the actualized data may appear to have a couple more dense clusters than what was generated via the simple sample. We will need to perform more testing to confirm whether these apparent clusters are statistically significant within the actualized data.

Monte Carlo Uniform Simulation

```
Here we are
```

```
B <- 1000 # 1000 bootsrap uniform samples
monteCarloSampleDists <- vector(mode="logical", length = 1000)</pre>
monteCarloSampleDists.mean <- vector(mode="logical", length = 1000)</pre>
for (i in 1:B) {
  monteCarloSampleDists[i] <- vector(mode="logical", length = n)</pre>
 monteCarloSampleDists[i] <- runif( n, min = 1, max = N )</pre>
 monteCarloSampleDists.mean[i] <- mean(monteCarloSampleDists[i])</pre>
} ## I get 'number of items to replace is not a multiple of replacement length', why?
## Warning in monteCarloSampleDists[i] <- vector(mode = "logical", length =
## n): number of items to replace is not a multiple of replacement length
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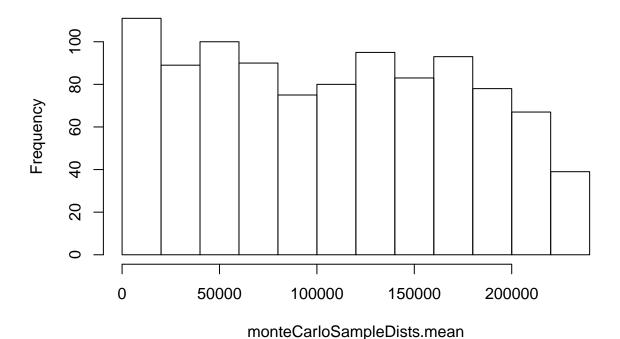
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hist(monteCarloSampleDists.mean)
```

Histogram of monteCarloSampleDists.mean



Chi-Squared Test

```
regionsplit <- function(n.region, gene, site){</pre>
  count.int <- table(cut(site, breaks = seq(1, length(gene), length.out=n.region+1), include.lowest=TRU</pre>
  count.vector <- as.vector(count.int)</pre>
  count.tab <- table(count.vector)</pre>
 return (count.tab)
n.region <- 50
regionsplit(n.region, gene, site.random)
## count.vector
## 2 3 4 5 6 7 8 9 10 11
## 2 2 5 18 6 6 5 3 2 1
chisqtable <- function(n.region, site, N){
 n <- length(site)</pre>
  # lambda estimate
 lambda.est <- n/n.region</pre>
  # cut into n.region number of non-overlapping intervals
  count.int <- table(cut(site, breaks = seq(1, length(gene), length.out=n.region+1), include.lowest=TRU</pre>
  # get the count levels range
  count.vector <- as.vector(count.int)</pre>
  count.range <- max(count.vector) - min(count.vector) + 1</pre>
  # create contingency table
  table <- matrix(rep(NA, count.range*3), count.range, 3)
  for (i in 1:count.range){
    offset <- min(count.vector) - 1
    # first column = count level
    table[i, 1] <- i + offset
    # second column = observed count
    table[i, 2] <- sum(count.vector == i + offset)
    # third column = expected count
    if ((i + offset == min(count.vector)) && (min(count.vector) != 0))
      table[i, 3] <- ppois(i+offset, lambda.est)*n.region</pre>
    else if (i + offset == max(count.vector))
      table[i, 3] <- 1 - ppois(i + offset - 1, lambda.est)
      table[i, 3] <- (ppois(i+offset, lambda.est) - ppois(i + offset - 1, lambda.est))*n.region
  return (table)
site.random.tabtemp <- chisqtable(n.region, site.random, N)</pre>
site.random.tab \leftarrow matrix(rep(NA, 7*2), 7, 2)
site.random.tab[1,] <- colSums(site.random.tabtemp[1:2, 2:3])</pre>
site.random.tab[2:6,] <- site.random.tabtemp[3:7, 2:3]</pre>
site.random.tab[7,] <- colSums(site.random.tabtemp[8:10, 2:3])</pre>
site.random.stats <- sum((site.random.tab[,2] - site.random.tab[,1])^2/site.random.tab[,2])</pre>
pchisq(site.random.stats, 7 - 2, lower.tail=FALSE) #if lower.tail=TRUE then you're testing something el
## [1] 0.009900061
```