CAC 1

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# AIM: TO FIND SAMPLING DISTRIBUTION AND STANDARD ERROR OF LOAN\_DEFAULT\_PREDICTION.

# IMPORTING THE DATASET:

library(readxl)  
library(reprex)

## Warning: package 'reprex' was built under R version 4.2.3

Data <- read\_excel("E:/MscDS/TRIM 2/Infa R/CAC1\_DATASET.xlsx")  
Data

## # A tibble: 10,000 × 4  
## Employed `Bank Balance` `Annual Salary` Defaulted  
## <dbl> <dbl> <dbl> <dbl>  
## 1 1 8754. 532340. 0  
## 2 0 9806. 145274. 0  
## 3 1 12883. 381206. 0  
## 4 1 6351 428454. 0  
## 5 1 9428. 461562 0  
## 6 0 11035. 89899. 0  
## 7 1 9906. 298863. 0  
## 8 0 9704. 211205. 0  
## 9 1 13933. 449622. 0  
## 10 1 0 351303. 0  
## # … with 9,990 more rows

Here we have imported the data set from Microsoft Excel.

# DEFINING THE POPULATION:

population <- Data$`Annual Salary`  
population

## [1] 532339.56 145273.56 381205.68 428453.88 461562.00 89898.72 298862.76  
## [8] 211205.40 449622.36 351303.24 262452.84 159222.72 339020.40 539934.72  
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## [9899] 547126.32 405390.48 319485.24 212627.28 520924.32 191780.28 383525.04  
## [9906] 697614.72 404253.00 478702.32 303386.88 648245.16 357939.96 115326.00  
## [9913] 531719.04 213728.04 191616.48 358675.20 522943.80 488725.68 420640.20  
## [9920] 411827.76 356666.04 210564.00 645072.48 378893.04 498548.16 277092.00  
## [9927] 473991.36 211489.92 341032.20 257851.68 495219.72 238695.60 433389.12  
## [9934] 536492.16 534462.60 612259.32 451195.44 164822.28 637624.44 635349.84  
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## [9948] 445425.96 262706.16 618947.28 404186.28 584262.12 372859.56 170756.76  
## [9955] 216770.88 224268.60 461109.12 571709.04 639060.24 647354.76 226282.80  
## [9962] 584440.92 162227.16 386143.44 369334.08 161826.12 242253.48 521793.48  
## [9969] 170975.40 533346.96 308247.96 251706.72 173470.44 452020.44 312616.80  
## [9976] 255455.28 304813.56 199492.08 567447.12 368367.00 164217.48 487883.40  
## [9983] 713295.72 598332.00 634340.88 479485.56 183984.24 545753.64 500888.28  
## [9990] 240160.20 304498.80 657624.96 545888.16 679601.40 179471.28 635908.56  
## [9997] 235928.64 703633.92 440029.32 202355.40

Here we have shown the population of our target variable “Annual Salary”.

# MEAN OF THE POPULATION:

mean(population)

## [1] 402203.8

Here we can see the mean of our target variable “Annual Salary” is 402203.8

# SD OF THEPOPULATION:

sd(population)

## [1] 160039.7

Here we can see the sd of our target variable “Annual Salary” is 160039.7

# TAKING SAMPLE SIZE OF 3000

sample\_without <- sample(population,3000,replace = FALSE)  
sample\_with <- sample(population,3000,replace = TRUE)

Here we have taken the sample size of 3000 in both without replacement and with replacement method.

# FINDING SAMPLE WITHOUT REPLACEMENT:

sample\_without

## [1] 574116.96 406660.92 258838.68 232748.88 462121.92 301334.52 235481.52  
## [8] 179908.68 138674.16 232578.48 672744.24 225315.60 527340.48 468655.08  
## [15] 600485.04 220356.84 426401.76 328217.16 308254.92 430346.04 506332.68  
## [22] 499872.00 731263.92 318806.88 292104.36 224015.16 213728.04 525686.64  
## [29] 201424.68 183591.12 393020.40 242674.44 328056.00 520449.12 357252.72  
## [36] 309278.16 392704.68 236433.60 409691.76 208488.72 257292.12 712732.56  
## [43] 269922.00 591723.96 759015.72 429435.96 553546.32 454842.36 507435.48  
## [50] 288010.68 447642.84 405340.80 243494.04 269694.84 340818.00 674612.16  
## [57] 254619.60 146344.56 369306.24 578152.56 179839.68 191928.48 587704.44  
## [64] 356831.52 547951.80 240137.64 540527.28 156029.88 241770.12 459914.40  
## [71] 229671.60 426382.08 224754.84 363527.52 469733.76 620336.88 401720.04  
## [78] 533288.52 202804.68 364806.72 649786.20 508518.00 448216.08 450293.16  
## [85] 414756.60 188029.20 137525.16 426795.24 438938.16 571605.48 340085.28  
## [92] 294994.56 265112.64 371702.52 200731.92 600915.12 536145.96 567492.24  
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## [2997] 482192.52 515000.40 542197.80 283049.88

Here we have shown the sample from our target variable “Annual Salary” in without replacement procedure.

# FINDING SAMPLE WITH REPLACEMENT:

sample\_with

## [1] 444894.48 173831.40 274619.40 795657.24 445066.08 509314.20 541794.24  
## [8] 130238.76 150573.96 278616.96 509020.44 453831.48 291281.04 663341.16  
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## [29] 275582.16 514800.24 245354.40 613659.24 203528.28 456049.20 404885.28  
## [36] 591292.56 708266.16 682540.08 434418.48 768201.12 326802.72 190603.92  
## [43] 486439.68 456123.12 570675.60 208326.24 229671.24 553866.48 473201.76  
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## [2584] 538551.36 507867.00 104969.64 245941.92 418971.36 574116.96 399558.84  
## [2591] 236799.00 197888.52 370906.80 425106.12 298715.04 259435.92 444205.20  
## [2598] 240894.12 587276.88 410561.88 124812.60 222459.60 245473.92 228877.32  
## [2605] 354546.00 355216.80 233291.64 551408.04 630116.88 100226.52 167817.48  
## [2612] 323528.88 250136.64 546455.40 141242.76 350878.20 544707.36 590580.24  
## [2619] 140003.88 172255.56 239502.48 512337.60 504961.32 418953.48 378896.52  
## [2626] 395232.72 698226.72 259366.92 608197.80 544623.72 308014.44 254603.52  
## [2633] 548853.36 140869.20 280020.60 520449.12 848407.80 529100.28 420809.16  
## [2640] 258909.12 236192.52 531909.48 463090.80 297571.32 185999.04 548084.04  
## [2647] 496984.80 269797.20 478829.28 261917.28 500043.12 436363.44 430142.28  
## [2654] 299192.64 492403.08 161267.88 538448.16 657584.40 271905.12 480911.76  
## [2661] 215068.80 396041.04 255570.96 167338.68 490383.72 308479.80 476610.48  
## [2668] 271421.04 203867.04 429481.56 300465.84 401291.76 533760.12 492055.92  
## [2675] 290127.24 697060.32 414299.04 163855.20 680161.68 457864.44 243476.04  
## [2682] 576700.56 411570.84 428851.20 493782.48 435269.40 545878.80 394575.60  
## [2689] 618090.00 404186.28 395182.56 249356.16 206916.60 571205.88 245941.92  
## [2696] 277415.16 362717.76 642540.24 428551.68 307076.88 500294.40 557739.48  
## [2703] 297850.32 586792.08 300508.80 217220.16 291208.80 276405.72 269010.72  
## [2710] 136044.72 376704.84 576307.44 468268.20 544591.32 525293.28 533110.68  
## [2717] 466906.56 193058.52 280507.80 602755.08 616454.40 597757.56 190159.92  
## [2724] 477953.04 339801.12 427602.00 269287.44 314605.56 623133.00 676123.32  
## [2731] 225767.28 556420.68 206504.52 552336.24 327404.28 297850.32 500309.04  
## [2738] 170533.80 464675.52 596768.40 482842.44 354168.36 541074.60 402853.68  
## [2745] 261399.24 558976.32 707478.12 344302.08 167186.52 490253.64 552310.44  
## [2752] 525178.44 131953.08 493478.52 487903.08 658697.16 670239.24 118705.56  
## [2759] 651959.04 196028.40 277200.12 519460.80 217103.28 697060.32 263146.92  
## [2766] 258886.80 462004.80 191277.84 361331.52 507982.68 308799.72 448598.76  
## [2773] 455232.48 538292.40 241243.20 565124.88 81436.68 183500.04 488263.68  
## [2780] 291185.28 469456.32 245337.00 321996.48 414541.20 573669.60 266333.76  
## [2787] 452079.84 193119.36 236037.24 529742.64 212225.40 386269.08 551408.04  
## [2794] 541257.84 294672.24 392245.32 592048.80 511953.60 575096.40 213617.64  
## [2801] 660532.44 278659.44 540508.92 266176.68 154580.28 652878.00 491359.32  
## [2808] 481705.56 197057.88 522431.28 566326.68 188432.52 515169.36 170581.08  
## [2815] 369613.08 535523.28 507858.36 626466.12 182892.24 495623.64 178582.08  
## [2822] 516401.88 401460.60 692262.84 268467.48 146351.64 160533.96 278411.64  
## [2829] 301334.52 532650.84 512065.56 546201.36 479889.24 624899.64 126498.84  
## [2836] 448919.76 260823.00 274727.52 182892.24 497456.64 468289.80 384584.88  
## [2843] 635121.36 563251.44 472659.84 283780.92 331578.84 423111.60 424787.52  
## [2850] 455555.76 412306.44 228775.44 191616.48 369599.40 102591.00 470742.48  
## [2857] 157514.52 282062.40 178103.88 815164.08 389613.00 591666.60 458238.24  
## [2864] 675050.16 167547.96 372347.04 454507.32 218059.44 505158.00 460421.76  
## [2871] 619513.68 214008.72 279142.20 615397.80 194151.72 531699.36 530707.44  
## [2878] 402822.36 220128.96 566107.32 212266.32 197036.52 578600.52 453206.88  
## [2885] 473739.60 697668.24 505961.40 656317.80 620459.04 189067.80 212939.16  
## [2892] 552370.56 605895.12 154727.52 603928.44 163601.16 256431.36 475521.24  
## [2899] 435251.28 579003.72 645072.48 195250.08 224166.24 438845.16 322239.60  
## [2906] 478937.16 296808.96 568536.24 314605.56 538835.16 324968.88 569544.84  
## [2913] 519336.72 211886.04 334318.32 394795.32 701633.76 168756.96 588826.44  
## [2920] 375776.40 699256.68 566484.60 259667.40 216888.96 303208.80 308036.40  
## [2927] 451459.56 463958.40 226119.24 647547.36 560582.76 389505.24 823324.92  
## [2934] 502070.04 381216.36 639550.44 593754.96 393645.96 560778.60 274703.16  
## [2941] 338305.56 553286.52 521025.96 467844.24 523722.96 290679.00 128667.00  
## [2948] 463624.32 463554.24 586116.00 405158.28 229737.84 328443.60 233421.84  
## [2955] 350628.84 549271.32 449138.64 252700.20 476456.28 601582.56 225849.48  
## [2962] 510082.32 279835.80 456020.52 407311.44 525546.96 185029.32 278399.76  
## [2969] 604460.76 104969.64 392646.84 197754.48 430719.48 484436.40 504900.60  
## [2976] 518275.92 488273.76 334647.00 513315.60 90306.96 451397.64 309278.16  
## [2983] 383695.44 346580.76 420120.36 357960.72 513593.28 704064.60 796856.16  
## [2990] 289827.12 284248.32 398157.36 403856.16 250598.88 313016.40 592463.52  
## [2997] 184501.80 439017.12 491728.92 225533.88

Here we have shown the sample from our target variable “Annual Salary” in with replacement procedure.

# MEAN OF THE SAMPLE WITHOUT AND WITH REPALCEMENT

mean(sample\_without)

## [1] 397130.4

mean(sample\_with)

## [1] 399253.3

Here we have found the mean of our target variable “Annual Salary” in both without replacement and with replacement procedure.

# SD OF THE SAMPLE WITHOUT AND WITH REPLACEMENT:

sd(sample\_without)

## [1] 159317.1

sd(sample\_with)

## [1] 157535.4

Here we have found the sd of our target variable “Annual Salary” in both without replacement and with replacement procedure.

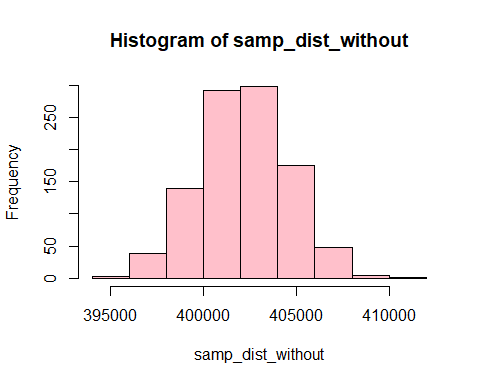
# SAMPLING DISTRIBUTION OF WITHOUT AND WITH REPLACEMENT:

samp\_dist\_without <- replicate(1000,mean(sample(population,3000,replace = FALSE)))  
samp\_dist\_with <- replicate(1000,mean(sample(population,3000,replace = TRUE)))

Here we have the sampling distribution in both without and with replacement procedure in 1000 replications.

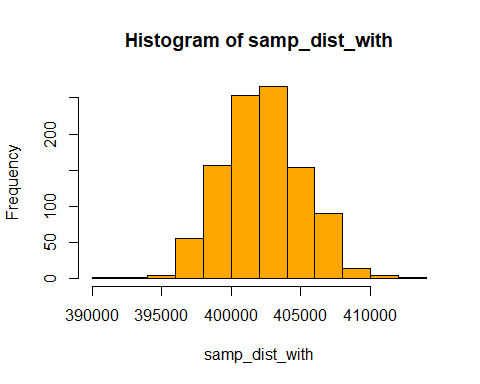
# HISTOGRAM OF SAMPLING DISTRIBUTION WITHOUT REPLACEMENT:

hist(samp\_dist\_without,col = "pink")

 Here we tried to visualize the sampling distribution of without replacement procedure with 1000 replicates in a histogram.

# HISTOGRAM OF SAMPLING DISTRIBUTION WITH REPLACEMENT:

hist(samp\_dist\_with,col ="orange")

 Here we tried to visualize the sampling distribution of with replacement procedure with 1000 replicates in a histogram.

# VARIANCE OF THE SAMPLING DISTRIBUTION:

var(samp\_dist\_without)

## [1] 5736192

var(samp\_dist\_with)

## [1] 8125537

Here we have found the variance of sampling distribution of our target variable “Annual Salary” in both without replacement and with replacement procedure.

# SD OF THE SAMPLING DISTRIBUTION:

sd(samp\_dist\_without)

## [1] 2395.035

sd(samp\_dist\_with)

## [1] 2850.533

Here we have found the sd of sampling distribution of our target variable “Annual Salary” in both without replacement and with replacement procedure.

# STANDARD ERROR:

(sd(sample\_without)/sqrt(3000))

## [1] 2908.719

(sd(sample\_with)/sqrt(3000))

## [1] 2876.19

Here we have found the se of our target variable “Annual Salary” in without replacement and with replacement procedure.