HW4\_Madhu

Madhu Jagdale

2/22/2021

library(tigerstats)

## Loading required package: abd

## Loading required package: nlme

## Loading required package: lattice

## Loading required package: grid

## Loading required package: mosaic

## Registered S3 method overwritten by 'mosaic':  
## method from   
## fortify.SpatialPolygonsDataFrame ggplot2

##   
## The 'mosaic' package masks several functions from core packages in order to add   
## additional features. The original behavior of these functions should not be affected by this.

##   
## Attaching package: 'mosaic'

## The following objects are masked from 'package:dplyr':  
##   
## count, do, tally

## The following object is masked from 'package:Matrix':  
##   
## mean

## The following object is masked from 'package:ggplot2':  
##   
## stat

## The following objects are masked from 'package:stats':  
##   
## binom.test, cor, cor.test, cov, fivenum, IQR, median, prop.test,  
## quantile, sd, t.test, var

## The following objects are masked from 'package:base':  
##   
## max, mean, min, prod, range, sample, sum

## Welcome to tigerstats!  
## To learn more about this package, consult its website:  
## http://homerhanumat.github.io/tigerstats

## *Part ONE: Clarifying the concept*

### *1. Sampling distribution of the sample mean*

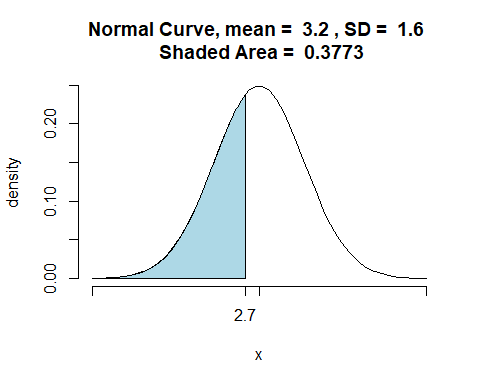
### Task

#### The amount of time that a drive-through bank teller spends on a customer is a random variable with a mean μ=3.2 minutes and a standard deviation σ=1.6 minutes. If a random sample of 64 customers is observed, find the probability that their mean time at the teller’s window is

#### *a)at most 2.7 minutes*

#### **Answer:**

pnormGC(2.7, region="below", mean=3.2, sd=1.6,graph=TRUE)



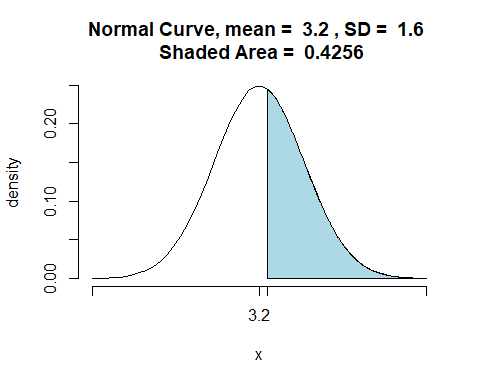
## [1] 0.3773303

#### The probability that their mean time at the teller’s window for 64 customers is at most 2.7 minutes is likely to happen around 30%.

#### *b)more than 3.5 minutes*

#### **Answer:**

pnormGC(3.5, region="above", mean=3.2, sd=1.6,graph=TRUE)



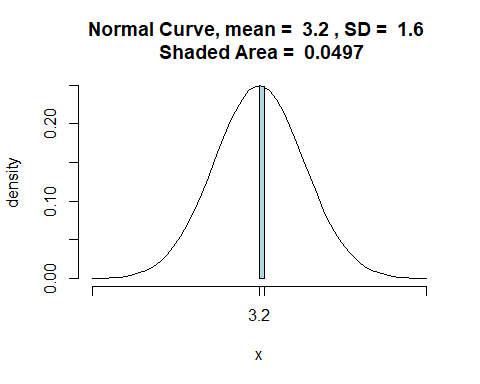
## [1] 0.4256343

#### The probability that their mean time at the teller’s window for 64 customers is more than 3.5 minutes have a chance of 50%.

#### *c)at least 3.2 minutes but less than 3.4 minutes*

#### **Answer:**

pnormGC(c(3.2,3.4), region="between", mean=3.2, sd=1.6,graph=TRUE)



## [1] 0.04973822

#### The probability that their mean time at the teller’s window for 64 customers is at least 3.2 minutes but less than 3.4 minutes have a chance of 50%.

### *2. A follow-up on CLT example from the lecture*

#### **Example reminder:**

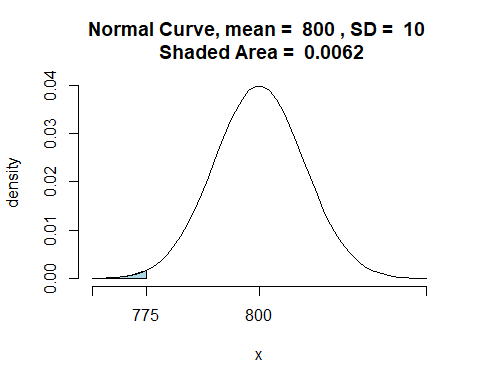
#### An electrical firm manufactures light bulbs that have a length of life that is approximately normally distributed, with mean equal to 800 hours and a standard deviation of 40 hours. In class, we computed the probaility that a random sample of 16 bulbs will have an average life of less than 775 hours.

### Task

#### Consider the situation described in the example above. Do these results prompt you to question the premise that μ=800 hours? Give a probabilistic result that indicates how rare an event ≤775 is when μ=800. On the other hand, how rare would it be if μ truly were, say, 760 hours?

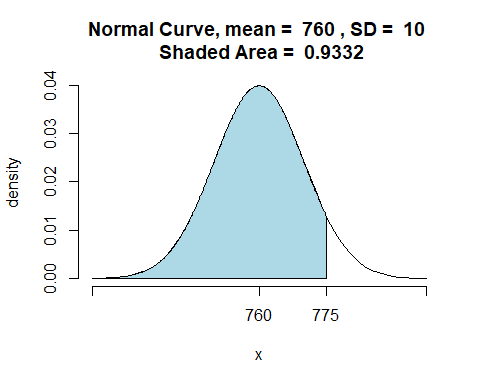
#### **Answer:**

pnormGC(775, region="below", mean=800, sd=10,graph=TRUE)



## [1] 0.006209665

pnormGC(775, region="below", mean=760, sd=10,graph=TRUE)



## [1] 0.9331928

#### By looking at both the graphs, we can say that X<=775 is too rare event when μ = 800 and on the other hand if μ = 760 then the X<=775 is more likely to happen.

### *3. Sampling distribution of difference of means*

### Task

#### The television picture tubes of manufacturer A have a mean lifetime of 6.5 years and a standard deviation of 0.9 year, while those of manufacturer B have a mean lifetime of 6.0 years and a standard deviation of 0.8 year.

#### What is the probability that a random sample of 36 tubes from manufacturer A will have a mean lifetime that is at least 1 year more than the mean lifetime of a sample of 49 tubes from manufacturer B?

#### **Answer:**

#### The distribution of the differences between means is the sampling distribution of the difference between means.

#### X1 − X2, is approximately normally distributed with:

#### µX1−X2 = µ1 − µ2, σ^2(- = ((σ1)2)/N1+((σ2)2)/N2

#### Z= [((-)-(μ1-μ2)]/ sq.rt[((σ1)2)/N1+((σ2)2)/N2]

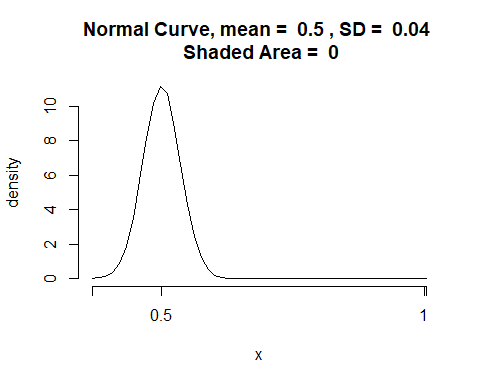
#### The probablity that we compute is as following -

#### μ1-μ2 = 6.5-6.0 = 0.5

#### σ^2(-) = ((0.92)/36)+((0.82)/49) = 0.03556

#### Z = (1-0.5)/sq.rt(0.0356) = 2.65

pnormGC(1, region="above", mean=0.5, sd=0.0356,graph=TRUE)



## [1] 4.136698e-45

#### In the above graph it is showing ‘0’ shaded area because there is a small probability of random sample of 36 tubes manufacturer A will have a mean lifetime that is at least 1 year more than the mean lifetime of a sample of 49 tubes from manufacturer B.

### *4. A follow-up on Case Study 2 from the lecture*

#### **Example reminder:**

#### Two independent experiments are run in which two different types of paint are compared. 18 specimens are painted using type A, and the drying time, in hours, is recorded for each. The same is done with type B. The population standard deviations are both known to be 1.0. We computed the probability that the difference in average paint drying times was larger than some threshold.

### Task

#### Suppose 18 specimens were used for each type of paint in an experiment and -, the actual difference in mean drying time, turned out to be 1.0.

#### a. Does this seem to be a reasonable result if the two population mean drying times truly are equal? Make use of the result in the solution to Case Study 2.

#### **Answer:**

#### The null hypothesis indicates that the population means are equal, µ1 = µ2 or μ1-μ2=0. The corresponding null hypothesis is that there is no difference in the population means µ1 − µ2 = 0.And actual difference in mean drying time is 1.0.so the so the two population mean drying times can not be equal.

#### b. If someone did the experiment 10,000 times under the condition that μA=μB, in how many of those 10,000 experiments would there be a difference XA−XB that was as large as (or larger than) 1.0?

#### **Answer:**

#### We can calculate the probability as:

#### Z= [((-)-(μ1-μ2)]/ sq.rt[((σ1)2)/N1+((σ2)2)/N2] = (1-0)/sq.rt(1/9) = 0.0013

#### P(XA−XB > 1) = P(Z>3)= 0.0013

#### And if we do this experiment 10,000 times - 10,000\*0.0013 = 13. 13 times more difference will be there in XA − XB.

## *Part TWO: working with the data*

### Task

#### For the following exercises, work with the bank\_marketing\_training data set. Use either Python or R to solve each problem; though you are strongly recommended to try and make sure you can run both.

dataset <- read.csv("https://campuspro-uploads.s3-us-west-2.amazonaws.com/a9d789c2-6b5e-4020-a941-69984947f1ee/d2c0b7ab-df96-4891-b40f-392d348c30dc/bank\_marketing\_training")  
bank\_train <- dataset  
head(bank\_train)

## age job marital education default housing loan contact month  
## 1 56 housemaid married basic.4y no no no telephone may  
## 2 57 services married high.school unknown no no telephone may  
## 3 41 blue-collar married unknown unknown no no telephone may  
## 4 25 services single high.school no yes no telephone may  
## 5 29 blue-collar single high.school no no yes telephone may  
## 6 57 housemaid divorced basic.4y no yes no telephone may  
## day\_of\_week duration campaign days\_since\_previous previous previous\_outcome  
## 1 mon 261 1 999 0 nonexistent  
## 2 mon 149 1 999 0 nonexistent  
## 3 mon 217 1 999 0 nonexistent  
## 4 mon 222 1 999 0 nonexistent  
## 5 mon 137 1 999 0 nonexistent  
## 6 mon 293 1 999 0 nonexistent  
## emp.var.rate cons.price.idx cons.conf.idx euribor3m nr.employed response  
## 1 1.1 93.994 -36.4 4.857 5191 no  
## 2 1.1 93.994 -36.4 4.857 5191 no  
## 3 1.1 93.994 -36.4 4.857 5191 no  
## 4 1.1 93.994 -36.4 4.857 5191 no  
## 5 1.1 93.994 -36.4 4.857 5191 no  
## 6 1.1 93.994 -36.4 4.857 5191 no

#### 1)Derive an index field and add it to the data set.

#### **Answer:**

n <- dim(bank\_train)[1]  
n

## [1] 26874

bank\_train$Index <- c(1:n)  
bank\_train$Index

## [1] 1 2 3 4 5 6 7 8 9 10 11 12  
## [13] 13 14 15 16 17 18 19 20 21 22 23 24  
## [25] 25 26 27 28 29 30 31 32 33 34 35 36  
## [37] 37 38 39 40 41 42 43 44 45 46 47 48  
## [49] 49 50 51 52 53 54 55 56 57 58 59 60  
## [61] 61 62 63 64 65 66 67 68 69 70 71 72  
## [73] 73 74 75 76 77 78 79 80 81 82 83 84  
## [85] 85 86 87 88 89 90 91 92 93 94 95 96  
## [97] 97 98 99 100 101 102 103 104 105 106 107 108  
## [109] 109 110 111 112 113 114 115 116 117 118 119 120  
## [121] 121 122 123 124 125 126 127 128 129 130 131 132  
## [133] 133 134 135 136 137 138 139 140 141 142 143 144  
## [145] 145 146 147 148 149 150 151 152 153 154 155 156  
## [157] 157 158 159 160 161 162 163 164 165 166 167 168  
## [169] 169 170 171 172 173 174 175 176 177 178 179 180  
## [181] 181 182 183 184 185 186 187 188 189 190 191 192  
## [193] 193 194 195 196 197 198 199 200 201 202 203 204  
## [205] 205 206 207 208 209 210 211 212 213 214 215 216  
## [217] 217 218 219 220 221 222 223 224 225 226 227 228  
## [229] 229 230 231 232 233 234 235 236 237 238 239 240  
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## [253] 253 254 255 256 257 258 259 260 261 262 263 264  
## [265] 265 266 267 268 269 270 271 272 273 274 275 276  
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## [529] 529 530 531 532 533 534 535 536 537 538 539 540  
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## [565] 565 566 567 568 569 570 571 572 573 574 575 576  
## [577] 577 578 579 580 581 582 583 584 585 586 587 588  
## [589] 589 590 591 592 593 594 595 596 597 598 599 600  
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## [613] 613 614 615 616 617 618 619 620 621 622 623 624  
## [625] 625 626 627 628 629 630 631 632 633 634 635 636  
## [637] 637 638 639 640 641 642 643 644 645 646 647 648  
## [649] 649 650 651 652 653 654 655 656 657 658 659 660  
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## [673] 673 674 675 676 677 678 679 680 681 682 683 684  
## [685] 685 686 687 688 689 690 691 692 693 694 695 696  
## [697] 697 698 699 700 701 702 703 704 705 706 707 708  
## [709] 709 710 711 712 713 714 715 716 717 718 719 720  
## [721] 721 722 723 724 725 726 727 728 729 730 731 732  
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## [745] 745 746 747 748 749 750 751 752 753 754 755 756  
## [757] 757 758 759 760 761 762 763 764 765 766 767 768  
## [769] 769 770 771 772 773 774 775 776 777 778 779 780  
## [781] 781 782 783 784 785 786 787 788 789 790 791 792  
## [793] 793 794 795 796 797 798 799 800 801 802 803 804  
## [805] 805 806 807 808 809 810 811 812 813 814 815 816  
## [817] 817 818 819 820 821 822 823 824 825 826 827 828  
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## [1993] 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004  
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## [26545] 26545 26546 26547 26548 26549 26550 26551 26552 26553 26554 26555 26556  
## [26557] 26557 26558 26559 26560 26561 26562 26563 26564 26565 26566 26567 26568  
## [26569] 26569 26570 26571 26572 26573 26574 26575 26576 26577 26578 26579 26580  
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## [26761] 26761 26762 26763 26764 26765 26766 26767 26768 26769 26770 26771 26772  
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## [26809] 26809 26810 26811 26812 26813 26814 26815 26816 26817 26818 26819 26820  
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## [26845] 26845 26846 26847 26848 26849 26850 26851 26852 26853 26854 26855 26856  
## [26857] 26857 26858 26859 26860 26861 26862 26863 26864 26865 26866 26867 26868  
## [26869] 26869 26870 26871 26872 26873 26874

#### 2)For the days\_since\_previous field, change the field value 999 to the appropriate code for missing values.

#### **Answer:**

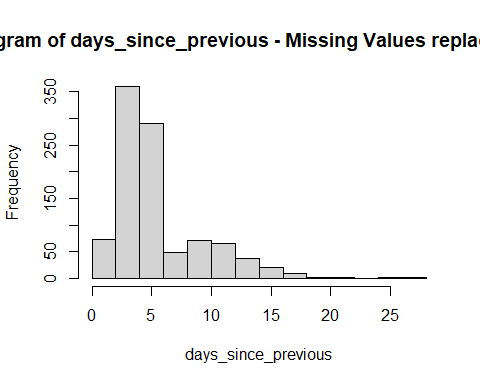
bank\_train$days\_since\_previous <- ifelse(test = bank\_train$days\_since\_previous == 999,  
yes = NA, no = bank\_train$days\_since\_previous)  
head(bank\_train$days\_since\_previous)

## [1] NA NA NA NA NA NA

bank\_train$days\_since\_previous[1:20]

## [1] NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA

hist(bank\_train$days\_since\_previous, xlab = "days\_since\_previous",  
main = "Histogram of days\_since\_previous - Missing Values replaced by NA")



#### 3)For the education field, reexpress the field values as the numeric values shown in Table 3.1. located in “Reexpression as categorical data” worksheet linked above.

#### **Answer:**

install.packages("plyr",repos ="http//cran.us.r-project.org");

## Installing package into 'C:/Users/madhu/OneDrive/Documents/R/win-library/4.0'  
## (as 'lib' is unspecified)

## Warning: unable to access index for repository http//cran.us.r-project.org/src/contrib:  
## scheme not supported in URL 'http//cran.us.r-project.org/src/contrib/PACKAGES'

## Warning: package 'plyr' is not available for this version of R  
##   
## A version of this package for your version of R might be available elsewhere,  
## see the ideas at  
## https://cran.r-project.org/doc/manuals/r-patched/R-admin.html#Installing-packages

## Warning: unable to access index for repository http//cran.us.r-project.org/bin/windows/contrib/4.0:  
## scheme not supported in URL 'http//cran.us.r-project.org/bin/windows/contrib/4.0/PACKAGES'

library(plyr)

## ------------------------------------------------------------------------------

## You have loaded plyr after dplyr - this is likely to cause problems.  
## If you need functions from both plyr and dplyr, please load plyr first, then dplyr:  
## library(plyr); library(dplyr)

## ------------------------------------------------------------------------------

##   
## Attaching package: 'plyr'

## The following object is masked from 'package:mosaic':  
##   
## count

## The following objects are masked from 'package:dplyr':  
##   
## arrange, count, desc, failwith, id, mutate, rename, summarise,  
## summarize

edu.num <- revalue(x = bank\_train$education,replace=c("illiterate" = 0, "basic.4y" = 4,  
"basic.6y" = 6, "basic.9y" = 9, "high.school" = 12, "professional.course" = 12,  
"university.degree" = 16, "unknown" = NA))  
  
bank\_train$education\_numeric <- as.numeric(levels(edu.num))[edu.num]  
  
edu.num

## [1] "4" "12" NA "12" "12" "4" "6" "9" "12" "12" "12" "12" "16" NA   
## [15] NA "4" "4" "12" "9" "16" "16" "12" "12" "16" "9" "16" "12" "12"  
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## [25775] NA NA "12" "4" "4" "4" "4" "4" "12" "4" "4" NA "12" "12"  
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## [26027] "16" "16" "12" "16" "12" "12" "4" "12" "12" "16" "12" "9" "12" "12"  
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## [26475] NA "16" "12" "16" "12" "16" "16" "6" "16" "16" "16" "16" "16" "16"  
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## [26615] "16" "16" "16" "12" "16" "16" "12" NA "16" "16" "12" "12" NA "12"  
## [26629] "16" "16" NA "12" "12" NA "12" "12" "6" "12" "16" "12" "12" "12"  
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## [26713] "4" "12" "4" "4" "16" "16" "12" "4" "16" "16" "12" "12" "12" "16"  
## [26727] "12" "16" "12" "16" "12" "12" "4" "12" "4" "4" "12" "12" "16" "4"   
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## [26811] "16" "9" "16" "12" "16" "12" "16" "9" "12" "12" NA NA NA "16"  
## [26825] "12" NA "16" "6" "12" NA "6" NA "16" "6" "12" "12" "12" "16"  
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## [26853] "9" "16" "12" "12" "16" "16" "4" "16" "16" "16" "16" "12" "16" "12"  
## [26867] "16" "16" "12" "16" "16" "4" "12" "12"

#### 4)Standardize the field age. Print out a list of the first 10 records, including the variables age and age\_z.

#### **Answer:**

bank\_train$age\_z <- scale(x = bank\_train$age)  
bank\_train[1:10,c(1,24)]

## age age\_z  
## 1 56 1.53959650  
## 2 57 1.63574771  
## 3 41 0.09732832  
## 4 25 -1.44109106  
## 5 29 -1.05648621  
## 6 57 1.63574771  
## 7 35 -0.47957894  
## 8 39 -0.09497410  
## 9 30 -0.96033500  
## 10 55 1.44344529

sapply(list(bank\_train$age, bank\_train$age\_z), head, n = 10)

## [,1] [,2]  
## [1,] 56 1.53959650  
## [2,] 57 1.63574771  
## [3,] 41 0.09732832  
## [4,] 25 -1.44109106  
## [5,] 29 -1.05648621  
## [6,] 57 1.63574771  
## [7,] 35 -0.47957894  
## [8,] 39 -0.09497410  
## [9,] 30 -0.96033500  
## [10,] 55 1.44344529

#### 5)Obtain a listing of all records that are outliers according to the field age\_z. Print out a listing of the 10 largest age\_z values.

#### **Answer:**

summary(bank\_train$age\_z)

## V1   
## Min. :-2.2103   
## 1st Qu.:-0.7680   
## Median :-0.1911   
## Mean : 0.0000   
## 3rd Qu.: 0.6742   
## Max. : 4.9049

bank\_outliers <- bank\_train[ which(bank\_train$age\_z < -2.2103 | bank\_train$age\_z>4.9049 ), ]  
bank\_train\_sort <- bank\_train[ order(- bank\_train$age\_z), ]  
head(bank\_train\_sort,10)

## age job marital education default housing loan contact  
## 24834 91 retired married university.degree no yes yes cellular  
## 24841 91 retired married university.degree no no yes cellular  
## 26016 89 retired divorced basic.4y no no no cellular  
## 26521 89 retired divorced basic.4y no yes no cellular  
## 18180 88 retired divorced basic.4y no yes no cellular  
## 18182 88 retired divorced basic.4y no no no cellular  
## 18184 88 retired divorced basic.4y no yes yes cellular  
## 18187 88 retired divorced basic.4y no yes no cellular  
## 18188 88 retired divorced basic.4y no no no cellular  
## 18189 88 retired divorced basic.4y no yes no cellular  
## month day\_of\_week duration campaign days\_since\_previous previous  
## 24834 sep wed 837 1 NA 2  
## 24841 sep wed 223 2 NA 0  
## 26016 jun mon 245 1 NA 0  
## 26521 sep tue 314 1 NA 0  
## 18180 mar wed 48 1 NA 0  
## 18182 mar wed 266 2 NA 0  
## 18184 mar wed 796 5 NA 0  
## 18187 mar wed 126 1 NA 0  
## 18188 mar wed 323 1 NA 0  
## 18189 mar wed 101 7 NA 0  
## previous\_outcome emp.var.rate cons.price.idx cons.conf.idx euribor3m  
## 24834 failure -3.4 92.379 -29.8 0.781  
## 24841 nonexistent -3.4 92.379 -29.8 0.781  
## 26016 nonexistent -1.7 94.055 -39.8 0.720  
## 26521 nonexistent -1.1 94.199 -37.5 0.881  
## 18180 nonexistent -1.8 92.843 -50.0 1.663  
## 18182 nonexistent -1.8 92.843 -50.0 1.663  
## 18184 nonexistent -1.8 92.843 -50.0 1.663  
## 18187 nonexistent -1.8 92.843 -50.0 1.663  
## 18188 nonexistent -1.8 92.843 -50.0 1.663  
## 18189 nonexistent -1.8 92.843 -50.0 1.663  
## nr.employed response Index education\_numeric age\_z  
## 24834 5017 no 24834 NA 4.904889  
## 24841 5017 no 24841 NA 4.904889  
## 26016 4991 yes 26016 NA 4.712586  
## 26521 4963 yes 26521 NA 4.712586  
## 18180 5099 no 18180 NA 4.616435  
## 18182 5099 yes 18182 NA 4.616435  
## 18184 5099 yes 18184 NA 4.616435  
## 18187 5099 yes 18187 NA 4.616435  
## 18188 5099 yes 18188 NA 4.616435  
## 18189 5099 yes 18189 NA 4.616435

#### 6)For the job field, combine the jobs with less than 5% of the records into a field called other.

#### **Answer:**

count(bank\_train$job)

## x freq  
## 1 admin. 6757  
## 2 blue-collar 6051  
## 3 entrepreneur 914  
## 4 housemaid 709  
## 5 management 1889  
## 6 retired 1143  
## 7 self-employed 918  
## 8 services 2581  
## 9 student 598  
## 10 technician 4437  
## 11 unemployed 667  
## 12 unknown 210

#### 5% of the records is 1343.75 so the jobs with less than 5% of the records are entrepreneur, housemaid, retired, self-employed, student, unemployed and unknown.

job.other <- revalue(x = bank\_train$job,replace=c("entrepreneur" = "other", "housemaid" = "other", "retired" = "other", "self-employed" = "other", "student" = "other", "unemployed" = "other", "unknown" = "other"))   
job.other

## [1] "other" "services" "blue-collar" "services" "blue-collar"  
## [6] "other" "blue-collar" "management" "other" "other"   
## [11] "technician" "admin." "technician" "admin." "blue-collar"  
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## [1466] "services" "blue-collar" "admin." "admin." "admin."   
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## [1476] "admin." "other" "admin." "admin." "other"   
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## [1496] "other" "technician" "management" "admin." "blue-collar"  
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## [1506] "management" "blue-collar" "technician" "admin." "blue-collar"  
## [1511] "admin." "technician" "services" "admin." "technician"   
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## [1581] "management" "admin." "admin." "other" "blue-collar"  
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## [1946] "blue-collar" "services" "services" "admin." "services"   
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## [1961] "other" "blue-collar" "blue-collar" "other" "admin."   
## [1966] "admin." "blue-collar" "management" "admin." "services"   
## [1971] "blue-collar" "blue-collar" "services" "blue-collar" "technician"   
## [1976] "services" "blue-collar" "blue-collar" "other" "blue-collar"  
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## [1991] "blue-collar" "admin." "admin." "admin." "services"   
## [1996] "other" "admin." "technician" "blue-collar" "other"   
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## [2006] "blue-collar" "admin." "admin." "blue-collar" "blue-collar"  
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## [2016] "blue-collar" "blue-collar" "other" "services" "admin."   
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## [2086] "other" "admin." "admin." "blue-collar" "technician"   
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## [2326] "blue-collar" "admin." "admin." "blue-collar" "admin."   
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## [2336] "other" "admin." "management" "services" "admin."   
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## [2346] "admin." "management" "technician" "blue-collar" "other"   
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## [2396] "other" "blue-collar" "admin." "services" "admin."   
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## [2406] "blue-collar" "other" "blue-collar" "services" "technician"   
## [2411] "services" "other" "blue-collar" "other" "blue-collar"  
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## [4391] "blue-collar" "technician" "admin." "other" "technician"   
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## [7216] "blue-collar" "technician" "services" "other" "services"   
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## [7266] "blue-collar" "technician" "other" "admin." "blue-collar"  
## [7271] "management" "admin." "other" "admin." "blue-collar"  
## [7276] "blue-collar" "technician" "blue-collar" "blue-collar" "other"   
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## [7346] "technician" "services" "blue-collar" "blue-collar" "blue-collar"  
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## [7366] "admin." "admin." "technician" "blue-collar" "blue-collar"  
## [7371] "admin." "blue-collar" "admin." "management" "other"   
## [7376] "technician" "blue-collar" "other" "technician" "admin."   
## [7381] "blue-collar" "services" "management" "blue-collar" "other"   
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## [7396] "services" "management" "other" "admin." "blue-collar"  
## [7401] "other" "blue-collar" "technician" "blue-collar" "management"   
## [7406] "admin." "admin." "blue-collar" "blue-collar" "other"   
## [7411] "other" "blue-collar" "blue-collar" "other" "blue-collar"  
## [7416] "blue-collar" "technician" "services" "other" "admin."   
## [7421] "other" "blue-collar" "technician" "admin." "other"   
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#### 7)Rename the default predictor to credit\_default.

#### **Answer:**

names(bank\_train)[5]<- "credit\_default"  
head(bank\_train)

## age job marital education credit\_default housing loan contact  
## 1 56 housemaid married basic.4y no no no telephone  
## 2 57 services married high.school unknown no no telephone  
## 3 41 blue-collar married unknown unknown no no telephone  
## 4 25 services single high.school no yes no telephone  
## 5 29 blue-collar single high.school no no yes telephone  
## 6 57 housemaid divorced basic.4y no yes no telephone  
## month day\_of\_week duration campaign days\_since\_previous previous  
## 1 may mon 261 1 NA 0  
## 2 may mon 149 1 NA 0  
## 3 may mon 217 1 NA 0  
## 4 may mon 222 1 NA 0  
## 5 may mon 137 1 NA 0  
## 6 may mon 293 1 NA 0  
## previous\_outcome emp.var.rate cons.price.idx cons.conf.idx euribor3m  
## 1 nonexistent 1.1 93.994 -36.4 4.857  
## 2 nonexistent 1.1 93.994 -36.4 4.857  
## 3 nonexistent 1.1 93.994 -36.4 4.857  
## 4 nonexistent 1.1 93.994 -36.4 4.857  
## 5 nonexistent 1.1 93.994 -36.4 4.857  
## 6 nonexistent 1.1 93.994 -36.4 4.857  
## nr.employed response Index education\_numeric age\_z  
## 1 5191 no 1 NA 1.53959650  
## 2 5191 no 2 NA 1.63574771  
## 3 5191 no 3 NA 0.09732832  
## 4 5191 no 4 NA -1.44109106  
## 5 5191 no 5 NA -1.05648621  
## 6 5191 no 6 NA 1.63574771

#### 8)For the variable month, change the field values to 1–12, but keep the variable as categorical.

#### **Answer:**

month.num <- revalue(x = bank\_train$month,replace=c("may"=5,"jun"=6,"jul"=7,"mar"=3,"apr"=4,"aug"=8,"sep"=9,"oct"=10,"nov" = 11, "dec" = 12))  
month.num

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## [8905] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [8919] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [8947] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [8961] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [8975] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [8989] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9003] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9017] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [9059] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9073] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [9101] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9115] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9129] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9143] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9157] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9171] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9185] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9199] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9213] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9227] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9241] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9255] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9269] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9283] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9297] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9311] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9325] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9339] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9353] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9367] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9381] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9395] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9409] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [9451] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9465] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9479] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9493] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9507] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9521] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [9605] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [9647] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [9675] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [9843] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9857] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9871] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9885] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [9941] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9955] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9969] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9983] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [9997] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [10053] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10067] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10081] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10095] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10109] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10123] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10137] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10151] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10165] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10179] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10193] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10207] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10221] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10235] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10249] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10263] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10277] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [10305] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [10333] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10347] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10361] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [10389] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10403] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [10459] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [10557] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [10571] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [10767] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [10991] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [11103] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11117] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11131] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11145] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11159] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11173] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11187] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11201] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11215] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11229] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11243] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11257] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11271] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11285] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11299] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11313] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11327] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11341] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11355] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11369] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11383] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11397] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11411] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11425] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11439] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11453] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11467] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11481] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11495] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11509] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [11537] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11551] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11565] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11579] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11593] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11607] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11621] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11635] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11649] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11663] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11677] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11691] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11705] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11719] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11733] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11747] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11761] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11775] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11789] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11803] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11817] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11831] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11845] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11859] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11873] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11887] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11901] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [11943] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11957] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11971] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11985] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [11999] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12013] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
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## [12069] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12083] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12097] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12111] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12125] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12139] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12153] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12167] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12181] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12195] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12209] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12223] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12237] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12251] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12265] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12279] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12293] "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7" "7"   
## [12307] "7" "7" "7" "7" "7" "7" "7" "7" "7" "8" "8" "8" "8" "8"   
## [12321] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12335] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12349] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12363] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12377] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12391] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12405] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12419] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12433] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12447] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12461] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12475] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12489] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12503] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12517] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12531] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12545] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12559] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12573] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12587] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12601] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12615] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12629] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12643] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12657] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12671] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12685] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12699] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12713] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12727] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12741] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12755] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12769] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
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## [12797] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12811] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12825] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12839] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12853] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12867] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12881] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12895] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12909] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12923] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12937] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12951] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12965] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12979] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [12993] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13007] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
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## [13049] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13063] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13077] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13091] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13105] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13119] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13133] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
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## [13161] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13175] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13189] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13203] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
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## [13245] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13259] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
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## [13287] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13301] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
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## [13329] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13343] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13357] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13371] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13385] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13399] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13413] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13427] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13441] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13455] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13469] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13483] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13497] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13511] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13525] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13539] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13553] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13567] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13581] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13595] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13609] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13623] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13637] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13651] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13665] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13679] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13693] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13707] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13721] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13735] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13749] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13763] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13777] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13791] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13805] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13819] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13833] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13847] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13861] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13875] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13889] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13903] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13917] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13931] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13945] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13959] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13973] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [13987] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14001] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14015] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14029] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14043] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14057] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14071] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14085] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14099] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14113] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14127] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14141] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14155] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14169] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14183] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14197] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14211] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14225] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14239] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14253] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14267] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14281] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14295] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14309] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14323] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14337] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14351] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14365] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14379] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14393] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14407] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14421] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14435] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14449] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14463] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14477] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14491] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14505] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14519] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14533] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14547] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14561] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14575] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14589] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14603] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14617] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14631] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14645] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14659] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14673] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14687] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14701] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14715] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14729] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14743] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14757] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14771] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14785] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14799] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14813] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14827] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14841] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14855] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14869] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14883] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14897] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14911] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14925] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14939] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14953] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14967] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14981] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [14995] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15009] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15023] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15037] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15051] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15065] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15079] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15093] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15107] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15121] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15135] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15149] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15163] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15177] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15191] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15205] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15219] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15233] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15247] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15261] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15275] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15289] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15303] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15317] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15331] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15345] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15359] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15373] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15387] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15401] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15415] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15429] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15443] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15457] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15471] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15485] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15499] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15513] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15527] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15541] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15555] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15569] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15583] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15597] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15611] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
## [15625] "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8" "8"   
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## [20175] "5" "5" "5" "5" "5" "5" "5" "5" "5" "5" "5" "5" "5" "5"   
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## [26867] "11" "11" "11" "11" "11" "11" "11" "11"

#### 9)Do the following for the duration field.

#### a)Standardize the variable.

#### **Answer:**

bank\_train$duration\_z <- scale(x = bank\_train$duration)  
bank\_train[1:10,c(11,25)]

## duration duration\_z  
## 1 261 0.01258062  
## 2 149 -0.41988998  
## 3 217 -0.15731854  
## 4 222 -0.13801182  
## 5 137 -0.46622612  
## 6 293 0.13614365  
## 7 312 0.20950920  
## 8 195 -0.24226813  
## 9 38 -0.84849924  
## 10 342 0.32534954

#### b)Identify how many outliers there are and identify the most extreme outlier.

#### **Answer:**

summary(bank\_train$duration\_z)

## V1   
## Min. :-0.9952   
## 1st Qu.:-0.5975   
## Median :-0.3002   
## Mean : 0.0000   
## 3rd Qu.: 0.2365   
## Max. :17.9949

bank\_outliersdur <- bank\_train[ which(bank\_train$duration\_z < -0.9952 | bank\_train$duration\_z>17.9949 ), ]  
bank\_train\_sortdur <- bank\_train[ order(- bank\_train$duration\_z), ]  
head(bank\_train\_sortdur,1)

## age job marital education credit\_default housing loan  
## 15765 33 technician single professional.course no yes no  
## contact month day\_of\_week duration campaign days\_since\_previous  
## 15765 telephone nov mon 4918 1 NA  
## previous previous\_outcome emp.var.rate cons.price.idx cons.conf.idx  
## 15765 0 nonexistent -0.1 93.2 -42  
## euribor3m nr.employed response Index education\_numeric age\_z  
## 15765 4.406 5195 no 15765 NA -0.6718814  
## duration\_z  
## 15765 17.99486

#### 10)Do the following for the campaign field.

#### a)Standardize the variable.

#### **Answer:**

bank\_train$campaign\_z <- scale(x = bank\_train$campaign)  
#bank\_train$campaign\_z  
bank\_train[1:10,c(12,26)]

## campaign campaign\_z  
## 1 1 -0.5686357  
## 2 1 -0.5686357  
## 3 1 -0.5686357  
## 4 1 -0.5686357  
## 5 1 -0.5686357  
## 6 1 -0.5686357  
## 7 1 -0.5686357  
## 8 1 -0.5686357  
## 9 1 -0.5686357  
## 10 1 -0.5686357

#### b)Identify how many outliers there are and identify the most extreme outlier.

#### **Answer:**

summary(bank\_train$campaign\_z)

## V1   
## Min. :-0.5686   
## 1st Qu.:-0.5686   
## Median :-0.2048   
## Mean : 0.0000   
## 3rd Qu.: 0.1590   
## Max. :14.7111

bank\_outlierscamp <- bank\_train[ which(bank\_train$campaign\_z < -0.5686 | bank\_train$campaign\_z>14.7111 ), ]  
bank\_train\_sortcamp <- bank\_train[ order(- bank\_train$campaign\_z), ]  
head(bank\_train\_sortcamp,1)

## age job marital education credit\_default housing loan  
## 8789 32 technician single university.degree no yes yes  
## contact month day\_of\_week duration campaign days\_since\_previous previous  
## 8789 telephone jul wed 16 43 NA 0  
## previous\_outcome emp.var.rate cons.price.idx cons.conf.idx euribor3m  
## 8789 nonexistent 1.4 93.918 -42.7 4.962  
## nr.employed response Index education\_numeric age\_z duration\_z  
## 8789 5228 no 8789 NA -0.7680326 -0.9334488  
## campaign\_z  
## 8789 14.71106