#Secret Message#

message = "cfyzscvycfyzwkzvyv"
key = nchar("#SAShackathon")

#Writing a function to decrypt the message#

chr <- function(n) {  
  # Converts sequence of numbers and returns letters
  final <- character()
  for(i in 1:length(n)){
    if(n[i] != 0){
      final[i] <- rawToChar(as.raw(n[i]%%26 + 96))
    } else {
      final[i] <- "z"
    }
  }
  return(paste0(final, collapse = ""))
}

asc <- function(x) { strtoi(charToRaw(x),16L) - 96 }  

# Decrypt
install.packages('numbers')

affine.Decrypt <- function(key.a = 3, key.b = key, message){
  library(numbers)
  message <- asc(message)
  # Use the mod equation described in the description to encrypt
  # D(x) = a^{-1}*(x-b) %% m
  # m being the number of letters in alphabet
  chr(modinv(key.a, 26) * (message - key.b))%%26
}

affine.Decrypt(key.a = 3, key.b = key, message)
Before people read a single word, they see and feel colors. It stirs emotion instantly. The SAS Hackathon is a global event with a cohesive color system that expresses our personality across cultures and contexts. The color palette is based on the SAS brand colors. The color scheme for the Hackathon depicts the high energy, diversity and fun nature of the experience.

For accessibility

When overlaying text on an orange or on a gradient background, use midnight.

You can only use white text on a midnight background.
message = "cfyzscvycfyzwkzvyv"
key=nchar('#HackinSAS')
#Writing a function to decrypt the message#
chr <- function(n) { #Converts and sequences numbers and returns letters
  final <- character()
  for(i in 1:length(n)) {
    if(n[i] != 0) {
      final[i] <- rawToChar(as.raw(n[i]%%26 + 96))
    }
    else {
      final[i] <- "z"
    }
  }
  for(i in 1:length(final)) {
    if(final[i] == "`") {
      final[i] <- "z"
    }
  }
  return(paste0(final, collapse = ""))
} #to characters
asc <- function(x) { strtoi(charToRaw(x),16L) -96 } #to numeric
#Decrypt
install.packages('numbers')
affine.Decrypt <- function(key.a = 3, key.b = key, message) {
  library(numbers)
  message <- asc(message)
  #use the mod equation described in the description to encrypt
  #D(x) = a^-1*(x-b) %% m
  #m being the number of letters in alphabet
  chr((modinv(key.a, 26) * (message - key.b))%%26)
}
affine.Decrypt(key.a = 3, key.b = key, message)
It starts with an idea. Something you are curious about - it’s that something that you believe could be made better. Add in code-loving problem solvers, and the possibility of bringing that idea to reality is within reach.

When data enthusiast come together from different regions, with diverse backgrounds and skill levels, amazing things can happen. These brilliant minds will invent something new - something that could change our daily lives, the way we do business or approach humanitarian causes. Because when curious minds collaborate, the world wins.

SAS believes curiosity is at the heart of human progress. And by pushing boundaries, challenging the status quo, we achieve progress. Novel solutions with a social purpose often become a catalyst for positive change. That’s our mission.

Using SAS® Analytics, AI and open source on Microsoft Azure, brilliant minds will come up with innovative solutions that can be practically applied in the marketplace.

Calling all data scientists: Flex your superpowers. Join us for the SAS Hackathon, where your curiosity leads to innovation.
Event wordmark: The Hackathon wordmark is a distinctive visual identifier. It sparks recognition. Keeping in line with the SAS brand, the workmark compliments other SAS global analytics and AI events.

Event sponsors and business partner logos: Corporate logos are a distinctive visual identifier and a reflection of an organization’s brand. Sponsor logos may not be copied or altered in the application.
The art uses bold colors and eye-catching visual elements overlayed on a tinted orange background. The graphics represent the energy of the SAS Hackathon.

A. This is a tinted orange background with thin, vibrant diagonal lines. The lines should completely fill the same area as the background, without altering the aspect ratio.

B. The bright orange and red gradient tracks show forward motion.

C. The code in the background speaks to the target audience.

D. The orange and red plot graph lines can anchor the art along the bottom.

E. Optional: The 3D caret can be used as floating objects in varying sizes.
# Secret Message#

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affine.Decrypt(key.a = 3, key.b = key, message)
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key = nchar('#SAShackathon')

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  final <- character()
  for(i in 1:length(n)) {
    if(n[i] != 0) {
      final[i] <- rawToChar(as.raw(n[i]%%26 + 96))
    } else {
      final[i] <- "z"
    }
  }
  for(i in 1:length(final)) {
    if(final[i] == `)` {
      final[i] <- "z"
    }
  }
  return(paste0(final, collapse = ""))
} # to characters
asc <- function(x) { strtoi(charToRaw(x),16L) - 96 } # to numeric

# Decrypt
install.packages('numbers')
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  # m being the number of letters in alphabet
  chr((modinv(key.a, 26) * (message - key.b))%%26)
}
affine.Decrypt(key.a = 3, key.b = key, message)
EMAIL TEMPLATE

To view this email in your web browser, click [here].

Learn more

SAS

SAS HACKATHON

#SAShackathon

Where Your Curiosity Leads to Innovation

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Lesciamus aut adis asimus ma peris dit, cullupt atestin ullicatiat. Am, consequam, cum essit, consenihi illabioriam nonessunto cptatur andis exercore sequis accatum voluptur, consequas aperorumquae laceatlis ea nonsequasit dolo et, cus duntorrum quam sae.

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SAS HACKATHON
#SASHackathon
affine.Decrypt <- function(key.a = 3, key.b = key, message)
{close}
install.packages('numbers')
# use the mod equation described in the description to encrypt
message <- asc(message)
for(i in 1:length(n))
{close}
if(n[i] != 0)
{close}
for(i in 1:length(n))
{close}
final[i] <- rawToChar(as.raw(n[i]%%26 + 96))
else{
{close}
for(i in 1:length(n))
{close}
final[i] <- "z"
if(final[i] == `){
    for(i in 1:length(final))
{close}
final[i] <- "z"
else{
{close}
    for(i in 1:length(final))
{close}
final[i] <- "z"
}
}
return(paste0(final, collapse = ""))
}
chr((modinv(key.a, 26) * (message - key.b))%%26)
# m being the number of letters in alphabet
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    # Writing a function to decrypt the message
    chr((modinv(key.a, 26) * (message - key.b))%%26)
}
affine.Decrypt(key.a = 3, key.b = key, message)
For the love of <code>;
Hack on!
Help Ensure Creative Consistency

In order to help us maintain the high standards the SAS brand has come to represent to our customers, and create consistency for the Hackathon, we ask you to please observe some simple instructions.

**Important:** SAS brand is a much cherished and valued entity. As employees, we are both beneficiaries and custodians of this asset. Brand management lessons suggest the name should not be combined or truncated.

Please check your presentations and other communications to be sure that you are respecting these best practices.

**Event name:** SAS Hackathon (Please do not use "#HackinSAS" when you are referring to the event.)

**Tagline:** Where Your Curiosity Leads to Innovation

**Hashtag:** #SAShackathon

**Website:** sas.com/hackathon

**Logos**

Corporate logos are a distinctive visual identifier and a reflection of an organization’s brand. Sponsor logos may not be copied or altered. If you need the SAS logo, please request it.

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- **Do not use a trademark symbol after the word SAS when referring to SAS Institute Inc.**

- **If possible, including the following notice on materials referencing the trademarks:** “SAS and all other SAS Institute Inc. product or service names are registered trademarks or trademarks of SAS Institute Inc. in the USA and other countries. ® indicates USA registration.

- **Abbreviations.** You should not abbreviate any SAS product or solution names in text, such as using SAS® AML instead of SAS® Anti-Money Laundering.