

R Programming Assignment 2

Saydaliev

3/31/2020

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```
makeCacheMatrix <- function( m = matrix() ) {  
  i <- NULL  
  set <- function( matrix ) {  
    m <- matrix  
    i <- NULL  
  }  
  get <- function() {  
    ## Return the matrix  
    m  
  }  
  setInverse <- function(inverse) {  
    i <- inverse  
  }  
  getInverse <- function() {  
    ## Return the inverse property  
    i  
  }  
  
  list(set = set, get = get,  
        setInverse = setInverse,  
        getInverse = getInverse)  
}  
  
cacheSolve <- function(x, ...) {  
  
  m <- x$getInverse()  
  
  if( !is.null(m) ) {  
    message("getting cached data")  
    return(m)  
  }  
  
  data <- x$get()  
  m <- solve(data) %*% data  
  x$setInverse(m)  
  m  
}
```