|  |
| --- |
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|  |
|  | makeCacheMatrix <- function(y = matrix()) { |
|  | inv1 <- NULL |
|  | s <- function(z) { |
|  | y <<- z |
|  | inv1 <<- NULL |
|  | } |
|  | g <- function() y |
|  | sinv <- function(inverse) inv1 <<- inverse |
|  | ginv <- function() inv1 |
|  | list(set = s, get = g, setinv = sinv, getinv = ginv) |
|  | } |
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|  |  |
|  | cacheSolve <- function(y1, ...) { |
|  | ## Return a matrix that is the inverse of 'y' |
|  | inv1 <- y1$getinv() |
|  | if(!is.null(inv1)) { |
|  | message("getting cached result") |
|  | return(inv1) |
|  | } |
|  | data <- y1$get() |
|  | inv1 <- solve(data, ...) |
|  | y1$setinv(inv1) |
|  | inv1 |
|  | } |
|  |  |
|  | ## Testing |
|  | ## p <- matrix(rnorm(16),4,4) |
|  | ## p1 <- makeCacheMatrix(p) |
|  | ## cacheSolve(p1) |
|  |  |
|  | ## [,1] [,2] [,3] [,4] |
|  | ## [1,] -0.1653269 0.2592203 0.6176218 -0.7520955 |
|  | ## [2,] 0.2828334 -0.1853499 0.4511382 0.2094365 |
|  | ## [3,] 0.1434840 1.0413868 -0.3550853 -0.3261154 |
|  | ## [4,] 0.1793583 -0.4252171 -0.4371493 -0.1749830 |
|  |  |