Symmetric Matrix From Half-Vectorization

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```
library(linearAlgebra)
```

```
A <- matrix(c("a", "b", "c"), ncol = 2)

## [,1] [,2]

## [1,] "a" "b"

## [2,] "b" "c"

vechA <- c("a", "b", "c")

vechsA <- "b"

diagsA <- c("a", "c")
```

Symmetric Matrix From Half-Vectorization

From Half-Vectorization

```
sym_of_vech(vechA)

## [,1] [,2]

## [1,] "a" "b"

## [2,] "b" "c"
```

${\bf Symmetric\ Matrix\ From\ Strict\ Half-Vectorization}$

```
sym_of_vechs(vechsA, diags = diagsA)

## [,1] [,2]

## [1,] "a" "b"

## [2,] "b" "c"
```