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```
I() — Identity matrix
```

Syntax Description Remarks and examples Conformability
Diagnostics Also see

Syntax

```
real matrix I(real scalar n)
real matrix I(real scalar m, real scalar n)
```

Description

I(n) returns the $n \times n$ identity matrix.

I(m, n) returns an $m \times n$ matrix with 1s down its principal diagonal and 0s elsewhere.

Remarks and examples

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I() must be typed in uppercase.

Conformability

```
I(n):

n: 1 \times 1

result: n \times n

I(m, n):

m: 1 \times 1

n: 1 \times 1

result: m \times n
```

Diagnostics

I(n) aborts with error if n is less than 0 or is missing. n is interpreted as trunc(n).

I(m, n) aborts with error if m or n are less than 0 or if they are missing. m and n are interpreted as trunc(m) and trunc(n).

Also see

[M-4] **standard** — Functions to create standard matrices