

---

```
1.00001 + 1
10 ^ 309
10 ^ -309
(1 + 10^-16 - 1) * 10^16
(1 - 1 + 10^-16) * 10^16
(1:8) .* (2:9)
2 .^ (0:7)
round(cosd((0:7) * 90))
m = [1 2 3; 4 5 6; 7 8 9];
m * [0; 1; 0]
ei = [0; 1; 0]; ej = [0; 0; 1];
ei' * m * ej
[1 2; 3 4] .\ [2 4; 6 8]
```

```
ans =
```

```
2.0000
```

```
ans =
```

```
Inf
```

```
ans =
```

```
1.0000e-309
```

```
ans =
```

```
0
```

```
ans =
```

```
1
```

```
ans =
```

```
2    6    12    20    30    42    56    72
```

```
ans =
```

```
1    2    4    8    16    32    64    128
```

```
ans =
```

---

1 0 -1 0 1 0 -1 0

ans =

2  
5  
8

ans =

6

ans =

2 2  
2 2

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