```
% check linspace with and without for loop for 2 inputs
% normal linspace
linspace(3, 10)
```

```
ans = 1×100
    3.0000    3.0707    3.1414    3.2121    3.2828    3.3535    3.4242    3.4949 ···
```

```
my_linspace_for(3, 10)
```

```
ans = 1×100
    3.0000    3.0707    3.1414    3.2121    3.2828    3.3535    3.4242    3.4949 ···
```

```
my_linspace(3, 10)
```

```
ans = 1×100
    3.0000    3.0707    3.1414    3.2121    3.2828    3.3535    3.4242    3.4949 ···
```

```
% check linspace with and without for loop for 3 inputs
% normal linspace
linspace(3, 10, 5)
```

```
ans = 1×5
    3.0000    4.7500    6.5000    8.2500   10.0000
```

```
my_linspace_for(3, 10, 5)
```

```
ans = 1×5
    3.0000    4.7500    6.5000    8.2500   10.0000
```

```
my_linspace(3, 10, 5)
```

```
ans = 1×5
    3.0000    4.7500    6.5000    8.2500   10.0000
```

```
% check error message
my_linspace()
```

```
Error using my_linspace (line 22)
Invalid usage, use my_linspace_for(x1, x2, n) or my_lispace_for(x1, x2) for n = 100
```

```
my_linspace_for()
```

```
Error using my_linspace_for (line 36)
Invalid usage, use my_linspace_for(x1, x2, n) or my_lispace_for(x1, x2) for n = 100
```

```
my_linspace(1)
```

```
Error using my_linspace (line 22)
Invalid usage, use my_linspace_for(x1, x2, n) or my_lispace_for(x1, x2) for n = 100
```

```
my_linspace_for(1) % check for insufficient arguments
```

```
Error using my_linspace_for (line 36)
```

```
Invalid usage, use my_linspace_for(x1, x2, n) or my_lispace_for(x1, x2) for n = 100
```

```
my_linspace(1, 2, 3, 4) % check for too many arguments
```

```
Error using my_linspace
Too many input arguments.
```

```
my_linspace_for(1, 2, 3, 4)
```

```
Error using my_linspace_for
Too many input arguments.
```