```
M = [1 2 3; 4 5 6; 7 8 9]
```

```
M = 3×3
     1     2     3
     4     5     6
     7     8     9
```

```
B = [M M' M]
```

```
B = 3×9
     1     2     3     1     4     7     1     2     3
     4     5     6     2     5     8     4     5     6
     7     8     9     3     6     9     7     8     9
```

Soucet prvku vetsich nez 3

```
sum(sum(B>3))
```

```
ans = 18
```

Logicke indexy

```
B > 3
```

```
ans = 3×9 logical array
   0   0   0   0   1   1   0   0   0
   1   1   1   0   1   1   1   1   1
   1   1   1   0   1   1   1   1   1
```

Maticove indexy

```
%help find
[I,J] = find(B > 3)
```

```
I = 18×1
     2
     3
     2
     3
     2
     3
     1
     2
     3
     1
     ⋮
J = 18×1
     1
     1
     2
     2
     3
     3
     5
     5
     5
```

```
     6
     ⋮
```

```
B(B==5) = 0
```

```
B = 3×9
     1     2     3     1     4     7     1     2     3
     4     0     6     2     0     8     4     0     6
     7     8     9     3     6     9     7     8     9
```

Soucet prvku matice

```
sum(sum(B))
```

```
ans = 120
```

Patients

```
load patients.mat Height Weight
Bmi = Weight ./ ((Height/100).^2)
```

```
Bmi = 100×1
  349.1371
  342.3650
  319.8242
  296.2798
  290.5273
  307.0934
  346.6797
  389.2734
  395.7612
  303.0303
     ⋮
```

```
save bmi.mat Bmi Weight Height
```

Format vypisu

```
%help format
format rational
0.5
```

```
ans =
      1/2
```

```
format short
```

Statistika hodu

```
hody = randi([1 6],[1 100])
```

```
hody = 1×100
     5     1     2     4     2     6     4     1     2     1     5     5     6 ···
```

```
statistika = [sum(hody==1) sum(hody==2) sum(hody==3) sum(hody==4) sum(hody==5)
sum(hody==6)]
```

```
statistika = 1×6
    16    22    13    14    17    18
```

```
why
```

```
The bald and tall engineer insisted on it.
```