

# Selection

## Exercises

# sort3

- Write a function `sort3.m` that takes 3 numbers  $x, y, z$  and returns them in ascending order. Use `if-elseif` statements to solve this problem. Do not use the `sort()` function.

```
>> [a b c] = sort3(120, 45, 52)
```

```
a =  
    45
```

```
b =  
    52
```

```
c =  
   120
```

# vecsort

- Write a function that takes a vector, sorts and returns it.
- Coding left as an assignment.

# getlettergrade

Percent Grade	0	60	63	67	70	73	77	80	83	87	90	93	97
Letter Grade	F	D-	D	D+	C-	C	C+	B-	B	B+	A-	A	A+

- Write a function `getlettergrade.m` that takes a percent grade and returns the letter grade using the conversion table above. Negative grades get an F, and grades over 100 get A+.

```
>> getlettergrade(72.5)
```

```
ans =  
C-
```

```
>> getlettergrade(99)
```

```
ans =  
A+
```

```
>> getlettergrade(105.9)
```

```
ans =  
A+
```

- Now assume the input is an integer between 0 and 100. Rewrite the same function using a `switch` statement.