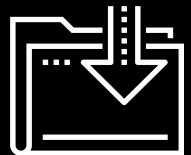


# Getting Real with VBA

Data Boot Camp  
Lesson 2.3



# Words of Advice

# Advice #1

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There is no cram.





## Advice #2

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If you ever spend more than 10 hours on homework in a week without seeing progress, ask for help!





## Advice #3

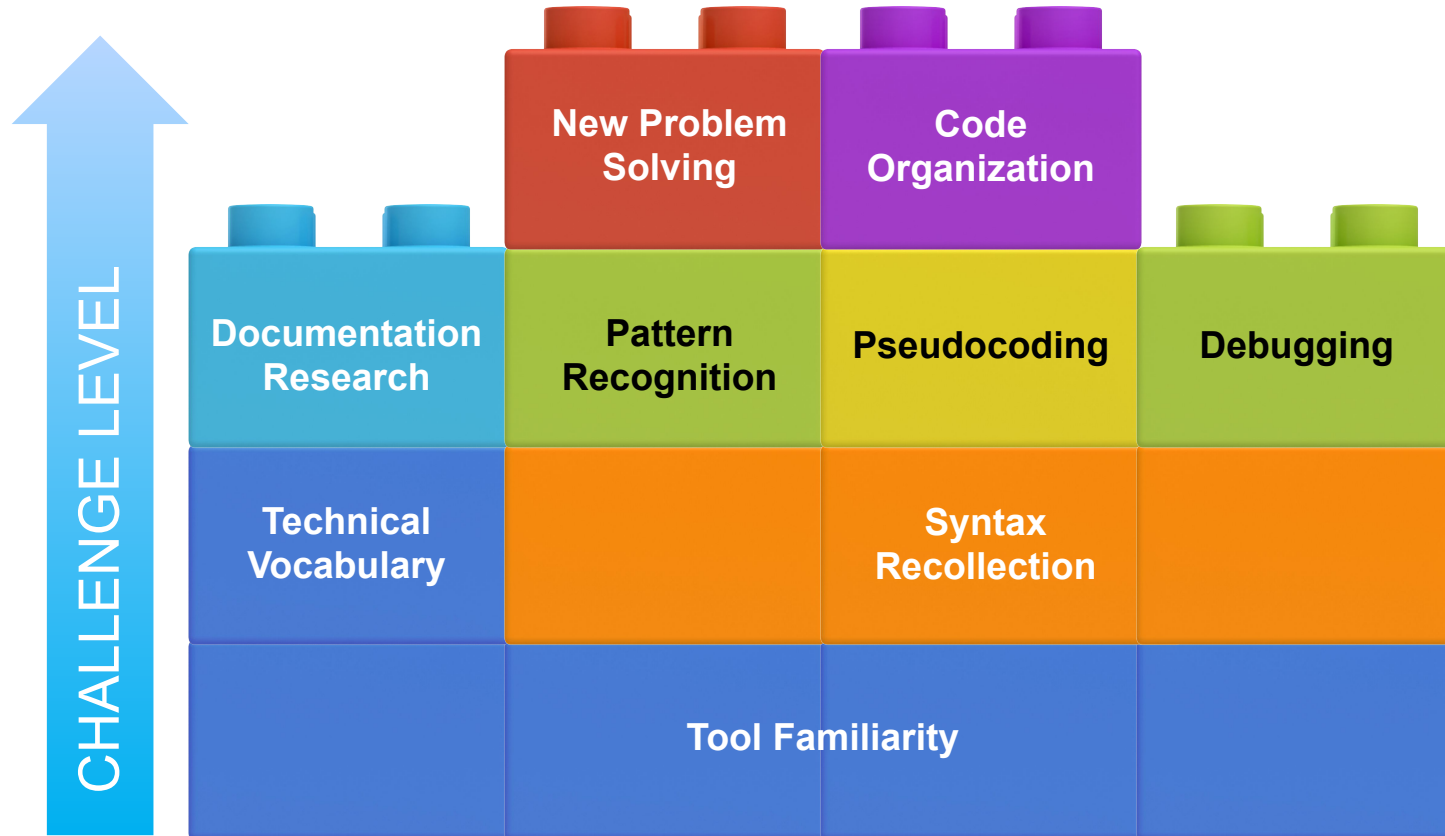
---

**Study the right way.**



# Study the Right Way

---





# Questions?

# Refresher















# Explain to a Baby

What is a **for loop**?



# What Will This Code Do?

```
Sub QuickLoop()  
    For i = 1 to 3  
        MsgBox(Cells(i, 1))  
    Next i  
End Sub
```













	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

# What Will This Code Do?

When:

`i = 1`

```
Sub QuickLoop()  
    For i = 1 to 3  
        MsgBox(Cells(i, 1))  
    Next i  
End Sub
```













	A	B	C
1	Michael <code>i = 1</code> 	Luis 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

# What Will This Code Do?

When:

**i = 2**

```
Sub QuickLoop()  
  For i = 1 to 3  
    MsgBox(Cells(i, 1))  
  Next i  
End Sub
```

	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan <b>i = 2</b> 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 















# What Will This Code Do?

When:

**i = 3**

```
Sub QuickLoop()  
  For i = 1 to 3  
    MsgBox(Cells(i, 1))  
  Next i  
End Sub
```













	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie <b>i = 3</b> 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

# What Will This Code Do?

Not going to:

`i = 4`

```
Sub QuickLoop()  
  For i = 1 to 3  
    MsgBox(Cells(i, 1))  
  Next i  
End Sub
```

	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie <code>i = 3</code> 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

# Explain to a Baby













---

What is a **nested** for loop?



# What Will This Code Do?

```
Sub QuickLoop()  
    For i = 1 to 4  
        For j = 1 to 3  
            MsgBox(Cells(i, j))  
        Next j  
    Next i  
End Sub
```

	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 















# What Will This Code Do?

When:

**i = 1**   **j = 1**

```
Sub QuickLoop()  
  For i = 1 to 4  
    For j = 1 to 3  
      MsgBox(Cells(i, j))  
    Next j  
  Next i  
End Sub
```













	A	B	C
1	Michael <b>i = 1</b> <b>j = 1</b> 	Luis 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

# What Will This Code Do?

When:

**i = 1**   **j = 2**

```
Sub QuickLoop()  
    For i = 1 to 4  
        For j = 1 to 3  
            MsgBox(Cells(i, j))  
        Next j  
    Next i  
End Sub
```













	A	B	C
1	Michael <b>i = 1</b> 	Luis <b>j = 2</b> 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

# What Will This Code Do?

When:

`i = 1`   `j = 3`

```
Sub QuickLoop()  
  For i = 1 to 4  
    For j = 1 to 3  
      MsgBox(Cells(i, j))  
    Next j  
  Next i  
End Sub
```













	A	B	C
1	Michael <code>i = 1</code> 	Luis 	Jin Yong <code>j = 3</code> 
2	Evan 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

# What Will This Code Do?

When:

**i = 2**   **j = 1**

```
Sub QuickLoop()  
  For i = 1 to 4  
    For j = 1 to 3  
      MsgBox(Cells(i, j))  
    Next j  
  Next i  
End Sub
```

	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan <b>i = 2</b> <b>j = 1</b> 	Mariah 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 















# What Will This Code Do?

When:

**i = 2**   **j = 2**

```
Sub QuickLoop()  
    For i = 1 to 4  
        For j = 1 to 3  
            MsgBox(Cells(i, j))  
        Next j  
    Next i  
End Sub
```













	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan <b>i = 2</b> 	Mariah <b>j = 2</b> 	Ricky 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

# What Will This Code Do?

When:

**i = 2**   **j = 3**

```
Sub QuickLoop()  
    For i = 1 to 4  
        For j = 1 to 3  
            MsgBox(Cells(i, j))  
        Next j  
    Next i  
End Sub
```













	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan <b>i = 2</b> 	Mariah 	Ricky <b>j = 3</b> 
3	Jamie 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 

# What Will This Code Do?

When:

**i = 3**   **j = 1**

```
Sub QuickLoop()  
  For i = 1 to 4  
    For j = 1 to 3  
      MsgBox(Cells(i, j))  
    Next j  
  Next i  
End Sub
```

	A	B	C
1	Michael 	Luis 	Jin Yong 
2	Evan 	Mariah 	Ricky 
3	Jamie <b>i = 3</b> <b>j = 1</b> 	Ron 	Mateo 
4	John 	Lakshmi 	Adhira 



Questions?