

Fall 2021 - Section 002 - In-person - 11am Class 07 - Control Flow Practice

## Today's Goals

- 1. Announcements
- 2. Practice and review functions and control flow statements

## Challenge Question #1

T	Challenge Question #1
2	
3	
4	<pre>def silly(n: int) -&gt; str:</pre>
5	"""A silly function."""
6	result: str = ""
7	i: int = 0
8	h: int
9	while i < n:
10	if i > 0:
11	result = result + "h'
12	h = i + 1
13	while h > 0:
14	result = result + "e'
15	h = h - 1
16	i = i + 1
17	return result
18	
19	
20	print(silly(3))

## Challenge Question #2

1		"""(	Q2.	Functi	ion	Calls"""	
2							
3							
4		def	a(x	: int)	->	int:	
5			"""/	A funct	tior	ı."""	
6			x =	x // 2	2		
7	$\sim$		if )	x == 1:	:		
8				returr	1 Ø		
9			else	e:			
10				returr	n 1		
11							
12							
13		def	b(x	: int)	->	int:	
14			"""/	Another	r fi	unction."""	
15			x =	a(x +	1)		
16			ret	urn x			
17							
18							
19		x: i	int =	= 2			
20	print(b(x))						

```
"""CQ3. A main Function."""
 2
     def main() -> None:
4
         """The program's entrypoint."""
 5
         print("main()")
         y: float = double(2.0)
         print(halve(y))
     def halve(x: float) -> float:
         """Hlave a value."""
12
         print(f"halve({x})")
         return x / 2.0
14
     def double(x: float) -> float:
         """Double a value."""
         print(f"double({x})")
         return x * 2.0
     if __name__ == "__main__":
         print("__name__ is '__main__'")
24
         main()
```

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## Challenge Question #3