Chapter Four

Test Cases and Team Updates

We have completed our testing framework that will automatically run all test cases and return results in the form of an html table. Our framework will be testing the methods fmtremaining from progress.py, intersect from simplemerge.py, countcpus from worker.py, count from templatefilters.py and tolist from namespaces.py.

We have run into some issues with test cases 11-15 since their is no output if the method fails, but does not say that the method failed. We figured how do deal with this issue and moved forward to complete the assignment.

Test Case	01
Requirement	Break a given integer into the largest increments of time it can be broken into.
Component	progress.py
Method	fmtremaining(int)
Test Input(s)	100
Expected Outcome	1m40s

Test Case	02
Requirement	GIven the range of two points, calculate the point of overlap between them
Component	simplemerge.py
Method	intersect(ra, rb)
Test Input(s)	(0,100), (50,150)
Expected Outcome	(50,100)

Test Case	03

Requirement	Counts the number of processors available to the operating system
Component	worker.py
Method	countcpus()
Test Input(s)	n/a
Expected Outcome	1

Test Case	04
Requirement	Return the length of the given string
Component	templatefilters.py
Method	count(String i)
Test Input(s)	‘’abcde”
Expected Outcome	5

Test Case	05
Requirement	Return elements in an array concatenated into one element in a larger array
Component	namespaces.py
Method	tolist(String)
Test Input(s)	“1”, ”2”, “3”, “4”
Expected Outcome	[‘1234’]

Test Case	06
Requirement	Break a given integer into the largest increments of time it can be broken into.
Component	progress.py

Method	fmtremaining(int)
Test Input(s)	59
Expected Outcome	59s

Test Case	07
Requirement	Break a given integer into the largest increments of time it can be broken into.
Component	progress.py
Method	fmtremaining(int)
Test Input(s)	0
Expected Outcome	0s

Test Case	08
Requirement	Break a given integer into the largest increments of time it can be broken into.
Component	progress.py
Method	fmtremaining(int)
Test Input(s)	3601
Expected Outcome	1h01m

Test Case	09
Requirement	Break a given integer into the largest increments of time it can be broken into.
Component	progress.py
Method	fmtremaining(int)
Test Input(s)	3599
Expected Outcome	59m59s

Test Case	10
Requirement	Break a given integer into the largest increments of time it can be broken into.
Component	progress.py
Method	fmtremaining(int)
Test Input(s)	86401
Expected Outcome	24h01m

Test Case	11
Requirement	GIven the range of two points, calculate the point of overlap between them
Component	simplemerge.py
Method	intersect(ra, rb)
Test Input(s)	(0,10), (5,15)
Expected Outcome	(5,10)

Test Case	12
Requirement	GIven the range of two points, calculate the point of overlap between them
Component	simplemerge.py
Method	intersect(ra, rb)
Test Input(s)	(0,100), (50,50)
Expected Outcome	n/a

Test Case	13
Requirement	GIven the range of two points, calculate the point of overlap between them

Component	simplemerge.py
Method	intersect(ra, rb)
Test Input(s)	(0,10), (10,10)
Expected Outcome	n/a

Test Case	14
Requirement	GIven the range of two points, calculate the point of overlap between them
Component	simplemerge.py
Method	intersect(ra, rb)
Test Input(s)	(0,2), (1,15)
Expected Outcome	(1,2)

Test Case	15
Requirement	GIven the range of two points, calculate the point of overlap between them
Component	simplemerge.py
Method	intersect(ra, rb)
Test Input(s)	(0,10), (10,0)
Expected Outcome	Error

Test Case	16
Requirement	Return the length of the given string
Component	templatefilters.py
Method	count(String i)
Test Input(s)	“”

Expected Outcome	0

Test Case	17
Requirement	Return the length of the given string
Component	templatefilters.py
Method	count(String i)
Test Input(s)	“ n ”
Expected Outcome	5

Test Case	18
Requirement	Return the length of the given string
Component	templatefilters.py
Method	count(String i)
Test Input(s)	“1_%YTb”
Expected Outcome	6

Test Case	19
Requirement	Return the length of the given string
Component	templatefilters.py
Method	count(String i)
Test Input(s)	“aaaaaaaaaaaaaa”
Expected Outcome	15

Test Case	20

Requirement	Return the length of the given string
Component	templatefilters.py
Method	count(String i)
Test Input(s)	‘’hello” “world”
Expected Outcome	10

Test Case	21
Requirement	Return elements in an array concatenated into one element in a larger array
Component	namespaces.py
Method	tolist(String)
Test Input(s)	“add” “These” “Words” “Together”
Expected Outcome	[‘addTheseWordsTogether’]

Test Case	22
Requirement	Return elements in an array concatenated into one element in a larger array
Component	namespaces.py
Method	tolist(String)
Test Input(s)	“This”” “”is”” ““a”” ““sentence.”
Expected Outcome	[‘This is a sentence.’]

Test Case	23
Requirement	Return elements in an array concatenated into one element in a larger array
Component	namespaces.py

Method	tolist(String)
Test Input(s)	“1””+””2””=””3”
Expected Outcome	[‘1+2=3’]

Test Case	24
Requirement	Return elements in an array concatenated into one element in a larger array
Component	namespaces.py
Method	tolist(String)
Test Input(s)	“ “” “”A”” “” “
Expected Outcome	[‘ A ’]

Test Case	25
Requirement	Return elements in an array concatenated into one element in a larger array
Component	namespaces.py
Method	tolist(String)
Test Input(s)	“”
Expected Outcome	[‘’]