Computer Principles for Programmers   SDLC – Testing

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Special Notes to Instructor (Click or tap here to enter text.)

See the topic's slides, the activity instructions, and the Programming Test Cases.docx

The number of rows in the tables below are for convenience; they do not indicate the number of cases expected.

Test Cases for the Black box program

Description	+ / – Purpose	Data Input	Expected Output	Actual output if unexpected	Success?	Comments
	+	**String:** cccccccccccccccccccccccccccccccccc				
	+	Position:11	c		Yes	
	+	Position:5	c		Yes	
	+	Position:0	c		Yes	
	+	Position:15	c		Yes	
	+	Position:25	c		Yes	
		String: 1235565821455				
	-	Position:6	6	6	Yes	
	-	Position:2	2	2	Yes	
	-	Position:3	3	3	Yes	
	-	Position:4	5	5	Yes	
	-	Position:1	1	1	Yes	
		String: **gfjgfjbuvbdvugfkbvlj45bvjv8574**				

Description	+ / – Purpose	Data Input	Expected Output	Actual output if unexpected	Success?	Comments
	-	Position:18	v	v	Yes	
	-	Position:25	j	j	Yes	
	-	Position:12	v	v	Yes	
	-	Position:8	u	u	Yes	
	-	Position:1	g	g	Yes	

Test Cases for the White box program.

Description	+ / – Purpose	Data Inputs for X and O	Expected Output		Actual output if unexpected	Success?	Comments
Start program	Record initial condition	n/a	1 2 3 4 5 6 7 8 9			Yes	To copy a grid from terminal, hold [Alt] while click & drag to select.
Nominal test	+ check recording of alternating moves to open grid positions	X > 1 O > 2	**X** 2 3 4 5 6 7 8 9	X **O** 3 4 5 6 7 8 9		Yes	
Nominal test	+	X > 2 O > 1	X **X** 3 4 5 6 7 8 9	**O** X 3 4 5 6 7 8 9		Yes	
Nominal test	+	X > 3 O > 5	O X **X** 4 5 6 7 8 9	O X X 4 **O** 6 7 8 9		Yes	
Nominal test	+	X > 8 O > 4	O X X 4 O 6 7 **X** 9	O X X **O** O 6 7 X 9		Yes	
Nominal test	+	X > 5 O > 4	O X X O **X** 6 7 X 9	O X X **O** X 6 7 X 9		Yes	X is COLUMN 2-5-8 WINNER!
Nominal test	+	X > 4 O > 1	O X X **X** X 6 7 X 9	O X X X X 6 7 X 9		Yes	X is COLUMN 2-5-8 WINNER!
		X > O >					
		X > O >					
		X > O >					

Description	+ / – Purpose	Data Inputs for X and O	Expected Output	Actual output if unexpected	Success?	Comments
		X > O >				