

CIS*4650 (Winter 2018) - Marking Scheme for Checkpoint Two

Group	Questions	Comments
	Documentation (20)	
	Symbol Tables: (40) 1. Hash tables 2. Simple vars (int and void) 3. Array variables 4. Functions/Blocks -entry and exit 5. Errors: undefined/redefine	
	Type-Checking: (40) 1. array range must be int 2. two sides of an assignment 3. two sides of an operation 4. func dec. vs. return exp 5. test condition must be int	

<p>Symbol Ttable:</p> <ol style="list-style-type: none"> 1. Hash table 2. Simple variable 3. Array variable 4. Functions/Blocks - entry/exit 5. Error: undefined/redefined vars 	<ol style="list-style-type: none"> 1. Show key-value pairs in different scopes 2. int x; void y; 3. int bbb[10]; 4. Show symbol tables at entry/exit for gcd 5. Use z without a declaration and declare y twice within a function
<p>Type-Checking</p> <ol style="list-style-type: none"> 1. array index must be int 2. match two sides of an assignment 3. match two operands 4. function declaration and return exp 5. test condition must be int 	<ol style="list-style-type: none"> 1. void main(void) { int a[2]; int x; a[x] = 1; a[foo()] = 2; // assuming void foo() } 2. void main(void) { int x; x = foo(); } 3. int fun(int fff) { int x; int y; x = x * 2 + 1; y = x + foo(); } 4. void funtwo(void) { int x; x = 2; return x; }
<p>5. void main(void) { int x; if(x) output(foo()); if(foo()) output(x. foo()); }</p>	