CMPS 4143 – Contemporary Programming Languages NAME Scott Schumacher

Homework 2 (12 points)

Due: Thursday, Sep. 22, 2016

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|  | C++ | C# |
| Can two variables refer to the same memory location? | N  http://stackoverflow.com/questions/15590727/same-address-of-two-variables | Y  http://stackoverflow.com/questions/24255994/c-sharp-2-variables-pointing-to-the-same-object |
| Can you have constant arrays or structs? | Y  http://stackoverflow.com/questions/6892586/how-to-define-a-constant-array-in-c-c | Y  http://stackoverflow.com/questions/5142349/declare-a-const-array |
| When is a value assigned to a constant? (run-time or compile-time) | Compile  http://stackoverflow.com/questions/27048025/is-variable-defined-by-const-int-determined-at-compilation-time | Compile  https://www.dotnetperls.com/const |
| Are there predefined constants? If so, what are some? | Y  Math.Pi; Math.E | Y- public const double Pi  http://stackoverflow.com/questions/3742692/math-pi-constant-is-wrong |
| When declaring a variable (and not initializing it), is it given a default value? | N  http://stackoverflow.com/questions/1597405/what-happens-to-a-declared-uninitialized-variable-in-c-does-it-have-a-value | Y  https://msdn.microsoft.com/en-us/library/83fhsxwc.aspx |
| Does the language have enumerated types? | Y  http://www.cprogramming.com/tutorial/enum.html | Y  https://msdn.microsoft.com/en-us/library/cc138362.aspx |
| What are the Boolean operations? |  |  |
| Are Boolean values ordered? |  | N- left to right  http://stackoverflow.com/questions/3877685/order-of-operators-in-if-statement |
| Can Boolean values be redefined? That is, can you say  int true = 5; | yes | N – if needed, us bool?  https://msdn.microsoft.com/en-us/library/c8f5xwh7.aspx |
| Can you copy an array with an assignment operator (without overloading it)? |  |  |
| Is there a pointer type? |  |  |
| Are Boolean expressions short circuited? |  |  |