Academic Challenge 2017

Topic Distribution – Computer Science

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Reference List

[ Title -- Edition -- Author(s) -- Publisher -- Copyright Date -- ISBN ]


NOTES REGARDING CODE ON ALL EXAMS

All syntax for the various commands will follow that used by C++. Some specific items are listed below. For a more comprehensive list, please consult the references listed.

Some reserved words:
for do while switch case break if else struct const

Some data types:
int float bool char double

Some operators:
= Used for Assignment
== Used for comparison of equality
/ Division, if two integers are used with this operator, the result is an integer with no remainder
% Modulus, used with two integers, it returns the remainder of the division
* Star operator, dereferences a pointer to determine the data in which the pointer is pointing
& Address operator, returns the memory location or address of the data
-> Right-arrow operator, used to access structure or class elements of the item in which a pointer is pointing
. Dot operator, used to access structure or class elements of an element of that class

Commands to obtain input from standard input or display to standard output:
cout Prints data to standard output, the monitor unless otherwise specified
cin Reads input from standard input, the keyboard unless otherwise specified

>> used to direct data from standard input to the cin data stream
<< used to direct data from cout to standard output

Note that code segments will be placed in Courier New font type as below.

SAMPLE QUESTION USING CODE AS DESCRIBED:

1. What is the output of the following code?

   ```
   int i;
   for (i=0; i<4; i++) {
       cout << i << " ";
   }
   ```

   a) 1 2 3 4       b) 0 1 2 3 4       c) 1 2 3 4 5       d) 0 1 2 3 4       e) none of the above