Academic Challenge 2016

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