Name:

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Quiz 2a: Conditionals and Loops
COMP110-004
02/11/2009
boolean a = true && (!true || false);
boolean b = !true && (!false || true);
boolean c = !true || (!false && true);
boolean d = !false || (!true || false);
boolean e = false!=true;
boolean f = false==false;
1. What are the values of variables a-f?
                       c: [ ]true [ ]false
a: [ ]true [ ]false
                                              e: []true []false
                       d: []true []false
                                               f: []true []false
b: [ ]true [ ]false
2. Which of the following is correct and preferred to compare equality for int?
[]a=b
           []a==b
                       []a.equals(b)
                                        []Math.abs(a-b)<EPSILON
3. Which of the following is correct to compare equality for String?
[]a=b
           [ ]a==b
                       []a.equals(b) []Math.abs(a-b) < EPSILON
4. Which of the following is correct to approximate equality for double?
                                        []Math.abs(a-b) < EPSILON
[]a=b
           [ ]a==b
                       []a.equals(b)
      int q=0, r=0, s=0;
                                         //line 1
      if (y < z)
                                         //line 2
                                         //line 3
           q=1;
                                         //line 4
      if (x>y);
           r=1:
                                         //line 5
      if (y<10||y>0)
                                         //line 6
                                         //line 7
           s=1;
5. Assume x=2, y=4, z=8. What are the values of r and s after the code is executed?
                 [ ] r=0, s=1
[ ] r=0, s=0
                                   [ ] r=1, s=0
                                                    [ ] r=1, s=1
6. Under which condition will the value of q be 0?
[ ] always
                 [] never
                                   [ ] y>z
                                                     [] y>=z
7. Under which condition will the value of r be 0?
[ ] always
                 [] never
                                   [ ] x<=y
                                                    [] x<y
8. Under which condition will the value of s be 0?
                                   [] 0<y||y<10
                                                    []y>=10||y<=0
[ ] always
                 [] never
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switch(myInt){
                                                  //line 1
                 System.out.print("a");
      case 1:
                                                  //line 2
                 System.out.print("b");
                                                  //line 3
      case 2:
                 break:
                                                  //line 4
      case 3:
                                                  //line 5
      case 4:
                 System.out.print("d");
                                                  //line 6
                 break;
                                                  //line 7
      default: System.out.print("f");
                                                  //line 8
                 break;
                                                  //line 9
}
                                                  //line 10
9. Mark the correct output for each value of myInt, or mark none if no output occurs:
mvInt=-1:
             [ ] a
                         [ ] b
                                     [] ab
                                                  [ ] d
                                                               [] f
myInt = 0:
             [ ] a
                         [ ] b
                                     []
                                         ab
                                                  [ ] d
                                                               [] f
                         [ ] b
myInt = 1:
                                                  [ ] d
                                                               [ ] f
             [ ] a
                                     []
                                         ab
myInt = 2:
             [ ] a
                         [ ] b
                                     []
                                         ab
                                                  [ ] d
mvInt = 3:
                                     []
             [ ] a
                         [ ] b
                                         ab
                                                  [ ] d
                                                               [] f
myInt = 4:
                         [ ] b
                                                               [] f
             [ ] a
                                     []
                                          ab
                                                  [ ] d
myInt = 5:
             [ ] a
                         [ ] b
                                         ab
                                                  [ ] d
                                                               [ ] f
10. Which of the following are true for a while loop? Select all, if any, that apply.
[ ] It must execute at least once
[ ] The while must be followed by a semicolon, for example: while (x < n);
[ ] It can contain multiple statements in its body
[ ] It can be written in this fashion: while (int x=0; x<10; x++)
      int sum=0, n=8;
                                            //line 1
      for(int x=1; x<n; x++) {
                                            //line 2
            if (x\%2==0)
                                            //line 3
                                            //line 4
                   sum+=x;
      }
                                            //line 5
11. What is the value of sum after the above code executes?
                        [] 12
[]2
            []3
                                     [] 20
                                                  [] 29
12. If line 1 is changed such that n=1, how many times does the loop iterate?
[]0
            []1
                        [] 2
                                     [] infinite
Indicate the difficulty of this quiz (Circle one):
            1
                         3
                               4
                                     5
                                            6
                                                  7
                                                        8
         Trivial
                                                          Impossible
                                  Average
I have neither given nor received unauthorized aid for this quiz.
I am adhering to the Honor code document signed for the course.
Signature: _
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