

AP CompSci Unit 3 Test

if-else, loops, boolean statements

Thank you. Your responses have been automatically graded. Here are your results.

Score Summary

(Click on question number to jump to question.)

		points earned	points possible
Question 1	correct	1	1
Question 2	correct	1	1
Question 3	correct	1	1
Question 4	correct	1	1
Question 5	correct	1	1
Question 6	correct	1	1
Question 7	correct	1	1
Question 8	correct	1	1
Question 9	correct	1	1
Question 10	correct	1	1
Question 11	correct	1	1
Question 12	correct	1	1
Question 13	correct	1	1
Question 14	correct	1	1
Question 15	correct	1	1
Question 16	correct	1	1
Question 17	correct	1	1
Question 18	correct	1	1
Question 19	correct	1	1
Question 20	correct	1	1
Question 21	correct	1	1
Question 22	correct	1	1
Question 23	correct	1	1
Question 24	correct	1	1
Question 25	correct	1	1
Question 26	correct	1	1
Question 27	correct	1	1
Question 28	incorrect	0	1
Question 29	incorrect	0	1
Question 30	correct	1	1
Question 31	correct	1	1
Question 32	correct	1	1
Question 33	correct	1	1
Question 34	incorrect	0	1
Question 35	correct	1	1
Question 36	correct	1	1
Question 37	correct	1	1
Question 38	correct	1	1

Question 39

correct 1 1

Question 40

correct 1 1

Score: (93%) 37 40

1. What is output by the code below?

```
for(int h=1; h<6; h++)  
System.out.print( h );
```

- 123
- 1234
- 12345 (correct answer, your response)
- 123456

Points earned: 1 out of 1

2. What is the returned by the call go(6) ?

```
public static int go(int x)  
{  
    if (x>0)  
        return 1;  
    return 2;  
}
```

- 1 (correct answer, your response)
- 12
- 2
- 21

Points earned: 1 out of 1

3. What is returned by the call go(5)?

```
public static int go(int x)  
{  
    int q=0;  
    while( x > 0)  
    {  
        q = q + x;  
        x = x - 1;  
    }
```

```
}  
return q;  
}
```

- 10
- 15 (correct answer, your response)
- 28
- 36

Points earned: 1 out of 1

4. What is output by the code below?

```
int u=2;  
while(5 > u)  
{  
System.out.print(u);  
u++;  
}
```

- nothing
- 2
- 23
- 234 (correct answer, your response)

Points earned: 1 out of 1

5. What is the output?

```
for(int g=1; g<4; g++)  
System.out.print(g);
```

- 12
- 123 (correct answer, your response)
- 1234
- 321

Points earned: 1 out of 1

6. Which of the following operators is the logical not operator?

- ||
- &&
- ! (correct answer, your response)
- ^

- %

Points earned: 1 out of 1

7. Which of these is a correct description of the code below?

```
for(i=0; i<10; i++)  
{  
  //instructions  
}
```

- it repeats the instructions ten times (correct answer, your response)
- it repeats the instructions indefinitely
- it repeats the instructions until the user stops it
- it repeats the instructions once

Points earned: 1 out of 1

8. What is the following code attempting to calculate?

```
public static int go( int x, int y)  
{  
  int cnt = 0  
  for(int n = x; n < y; n = n + 1)  
    if(n % 2 != 0 )  
      cnt++;  
  return cnt;  
}
```

- The code is counting the number of negative numbers between x and y.
- The code is counting the number of positive numbers between x and y.
- The code is counting the number of odd numbers between x and y. (correct answer, your response)
- The code is counting the number of even numbers between x and y.
- The code is counting the number of prime numbers between x and y.

Points earned: 1 out of 1

9. What is output by the code below?

```
int mark=0;  
for(int b=0; b<10; b=b+3)  
{
```

```
mark++;  
}  
out.println(mark);
```

- 2
- 3
- 4 (correct answer, your response)
- 5

Points earned: 1 out of 1

10. What is returned by the call go(10) ?

```
public static String go( int x)  
{  
    String s = "";  
    for(int n = x; n > -3; n = n - 3)  
        s = s + x + " ";  
    return s;  
}
```

- 10 7 4 1 -2 (correct answer, your response)
- 7 4 1 -2 -5 -8
- 10 7 4 1 -2 -5
- 10 7 4 1 -2 -5 -8

Points earned: 1 out of 1

11. What is output by the code below?

```
int g = 5;  
if(g == 5)  
    out.print("same");  
else  
    out.print("notsame");  
out.print("done");
```

- same
- notsame
- done
- samedone (correct answer, your response)
- notsamedone

Points earned: 1 out of 1

12. Logical operator || means

Ex.

```
if(hitpoints > 10 || energy > 100 )  
{  
    code  
}
```

- or (correct answer, your response)
- and
- not
- que

Points earned: 1 out of 1

13. What is the output?

```
int x = 789;  
if(x > 700)  
    out.println("big");  
else  
    out.println("little");
```

- big (correct answer, your response)
- little
- 700
- 0

Points earned: 1 out of 1

14. What is the output?

```
String s = "ABC";  
if(s.equals("ABC"))  
    out.println("same");
```

- same (correct answer, your response)
- abc
- ABC

- there is no output

Points earned: 1 out of 1

15. What is output by the code below?

```
boolean bNine=true;
boolean bTen=false;
out.println(bNine ||(bNine && bTen));
```

- 0
- 1
- true (correct answer, your response)
- false
- bNine

Points earned: 1 out of 1

16. What is returned by the call go(7)?

```
public static int go(int x)
{
    int q=0;
    while( x > 0)
    {
        q = q + x;
        x = x - 1;
    }
    return q;
}
```

- 28 (correct answer, your response)
- 36
- 45
- 21

Points earned: 1 out of 1

17. What relation does > test?

- greater than (correct answer, your response)
- less than
- equal to

- less than or equal to
- greater than or equal to

Points earned: 1 out of 1

18. What is output by the code below?

```
int e=5;
if(!(e>3))
    System.out.print("fun");
System.out.print("go");
```

- go (correct answer, your response)
- fun
- gofun
- there is no output

Points earned: 1 out of 1

19. What is output by the code below?

```
String m = "h";
int n =0;
do{
    m=m+"h";
    n++;
}while(!m.equals("hhhhh"));
out.println(m + " - " + n);
```

- hhhhh - 5
- hhhh - 4
- hhhhh - 4 (correct answer, your response)
- hhhhh - 6
- hhh - 3

Points earned: 1 out of 1

20. To increment means to:

- add (correct answer, your response)
- subtract
- divide
- multiply

Points earned: 1 out of 1

21. Consider the following code segment shown below.

```
int x = 5;
while ( /* missing code */ )
{
    System.out.print(x + " ");
    x = x + 5;
}
```

Listed below are possible replacements for /* missing code */.

- I. $x \leq 20$
- II. $x < 20$
- III. $x \leq 19$

Which of the proposed replacements for /* missing code */ will cause the code segment to print only the values 5 10 15 20?

- I only (correct answer, your response)
- II only
- III only
- I and II only
- II and III only
- I and III only
- I, II , and III

Points earned: 1 out of 1

22. What is the output?

```
int t=2, summer=0;
while(t < 12)
{
    summer = summer + t;
    t = t + 1;
}
System.out.print(summer);
```

- 35
- 44

- 54
- 65 (correct answer, your response)

Points earned: 1 out of 1

23. What is output by the code below?

```
int a=5;  
if(a>3 && a<10)  
    System.out.print("fun");  
System.out.print("go");
```

- go
- fun
- gofun
- fungo (correct answer, your response)

Points earned: 1 out of 1

24. What is the output by the code below?

```
int w=1;  
do{  
    w++;  
    System.out.print(w);  
}while(w<=5);
```

- 35
- 1234
- 12345
- 345
- 23456 (correct answer, your response)

Points earned: 1 out of 1

25. Which of the following operators is the logical and operator?

- ||
- && (correct answer, your response)
- !
- ^
- %

Points earned: 1 out of 1

26. Which of the following loops will print out the numbers 5, 10, 15, 20, 25?

I.

```
int i=5;
while(i<=25)
{
    out.println(i);
    i=i+5;
}
```

II.

```
for(int i=5;i<=25;i=i+5)
{
    out.println(i);
}
```

III.

```
for(int i=4;i<24;i=i+5)
{
    out.println(i+1);
}
```

- I only
- II only
- I and III only
- II and III only
- **I, II, and III (your response)**

Points earned: 1 out of 1

Instructor's comments: error in answer choices, free point

27. What is the returned by the call go(-9) ?

```
public static String go(int x)
{
    if (x==5)
        return "same";
    else if (x>5)
        return "notsame";
    return "done";
}
```

- same
- notsame
- **done (correct answer, your response)**
- samedone

Points earned: 1 out of 1

28. Consider the following code segment shown below.

```
int x = 0;
while ( /* missing code */ )
{
    x = x + 5;
    System.out.print(x + " ");
}
```

Listed below are possible replacements for /* missing code */.

- I. $x < 20$
- II. $x < 25$
- III. $x \leq 25$

Which of the proposed replacements for /* missing code */ will cause the code segment to print only the values 5 10 15 20 25?

- I only
- II only
- **III only (your response)**
- I and II only
- **II and III only (correct response)**
- I and III only
- I, II , and III

Points earned: 0 out of 1

29. You should never put a _____ what before an open scroll brace?

- bracket
- car door
- window
- **semicolon (correct answer)**
- **none of these (your response)**

Points earned: 0 out of 1

30. What is the output?

```
String s = "abc";  
if(s.equals("ABC"))  
    out.println("same");
```

- same
- abc
- ABC
- there is no output (correct answer, your response)

Points earned: 1 out of 1

31. What is output by the code below?

```
int c=5;  
if(c>3 || c>10)  
    System.out.print("fun");  
System.out.print("go");
```

- go
- fun
- gofun
- fungo (correct answer, your response)

Points earned: 1 out of 1

32. Which of the following loops will print out the numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10?

I.

```
for(int i=1;i<=10;i++)  
{  
    out.println(i);  
}
```

II.

```
int i=0;  
while(i<10){
```

```
out.println(i);  
i++;  
}
```

III.

```
int i=0;  
while(i<10)  
{  
i++;  
out.println(i);  
}
```

- I only
- II only
- I and II only
- I and III only (correct answer, your response)
- II and III only

Points earned: 1 out of 1

33. What is output by the code below?

```
for(int e=1; e<3; e++)  
System.out.print(e);
```

- 12 (correct answer, your response)
- 123
- 1234
- 321

Points earned: 1 out of 1

34. Which of the following expressions is equivalent to the expression shown below?

! (!a && !b)

I.

a && b

II.

!a || !b

III.

a || b

- I only (your response)
- II only
- III only (correct answer)
- I and II only
- I and III only
- II and III only
- I, II, and III

Points earned: 0 out of 1

35. What relation does < test?

- less than (correct answer, your response)
- greater than
- equal to
- greater than or equal to
- less than or equal to

Points earned: 1 out of 1

36. Which of the following is the assignment operator?

- = (correct answer, your response)
- ==
- >
- <
- none of these

Points earned: 1 out of 1

37. x--

- decrement (correct answer, your response)
- desacrate
- implicate
- replicate

Points earned: 1 out of 1

38. To decrement means to:

- subtract (correct answer, your response)
- add
- divide
- multiply

Points earned: 1 out of 1

39. What is output by the code below?

```
int m = 0;
while(m < 4)
{
    System.out.print(m);
    m++;
}
```

- 12
- 012
- 0123 (correct answer, your response)
- 123

Points earned: 1 out of 1

40. Logical operator && means

Ex.

```
if(hitpoints > 10 && hitpoints < 100 )
{
    code
}
```

- and (correct answer, your response)
- or
- not
- what

Points earned: 1 out of 1