Type: FMB  
1. What are variables' values after the following code segment is executed?  
int quantity = 2;  
boolean f = 5 <= quantity;  
quantity: [2]f: [false]  
  
Type: FMB  
2. What are variables' values after the following code segment is executed?  
boolean small = false || true && false && true;  
small: [false]  
  
Type: FMB  
3. Specify the output and the variables' values after the following code segment is executed.  
  
int index = 3;  
if (index < 8)  
{  
 System.out.print(index);  
 index = index - 1;  
}  
If there is no output, please specify "nothing" (no quotes) in the blank for the output.  
output of the code: [3]index: [2]  
  
Type: FMB  
4. Specify the variables' values after the following code segment is executed.  
  
int x = 1;  
int y = 4;  
int z = 15;  
  
if (y % x == 0)  
{  
 if (x >= z)  
 {  
 z = x \* y;  
 }  
 else  
 {  
 z = x \* x;  
 }  
}  
else  
{  
 if (z >= x + y)  
 {  
 if (x >= y)  
 {  
 y = y \* y;  
 }  
 else  
 {  
 z = z \* z;  
 }  
 }  
}  
x: [1]y: [4]z: [1]