

Show the output of the following code segments. If an error occurs, print "error" as your answer & explain.

1.  
int num = 123;  
double result = num % 100 / 10;  
System.out.println(result); \_\_\_\_\_

2.  
int num = 456;  
double result = num / 100 \* 10;  
System.out.println(result); \_\_\_\_\_

3.  
int num = 789;  
double result = num \* 100 % 1000;  
System.out.println(result); \_\_\_\_\_

4.  
int num = 23, other = 45;  
int digit = num % 10 + other % 10;  
int digit2 = num / 10 + other / 10;  
System.out.println(digit + " " + digit2); \_\_\_\_\_

5.  
int num = 45678;  
System.out.println(num % 100 / 10); \_\_\_\_\_

6.  
int num = 45678;  
System.out.println(num % 1000 / 100); \_\_\_\_\_

7.  
int num = 45678;  
System.out.println(num % 10000 / 1000); \_\_\_\_\_

8.  
int num = 7658;  
int num2 = num / 100;  
int num3 = num2 / 10;  
System.out.println(num - num3 \* 1000); \_\_\_\_\_

9.  
int num = 123;  
int num2 = num / 10;  
int num3 = num2 / 10;  
int num4 = num - num3 \* 100;  
int num5 = num4 / 10;  
int num6 = num4 - num5 \* 10;  
System.out.println(num \* 1000 + (num6 \* 100 + num5 \* 10 + num3)); \_\_\_\_\_