**Question 1**

Which of the following are not methods of the java.lang.String class?

|  |  |
| --- | --- |
| a. | append |
| b. | concat |
| c. | delete |
| d. | insert |
| e. | replace |
| f. | substring |
| g. | valueOf |

**Question 2**

Which of these methods modify the contents of the String instance on which it is invoked?

|  |  |
| --- | --- |
| a. | append |
| b. | concat |
| c. | delete |
| d. | insert |
| e. | replace |
| f. | substring |
| g. | valueOf |
| h. | None of the above. |

**Question 3**

class MWC204 {

static void m1(StringBuffer s1) {

s1 = s1.append("B"); System.out.print(s1);

}

static void m2(StringBuffer s1) {

s1.append("C"); System.out.print(s1);

}

public static void main(String[] s) {

StringBuffer s1 = new StringBuffer("A");

m1(s1); m2(s1);

System.out.print(s1);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: AAA |
| b. | Prints: ABAA |
| c. | Prints: ABACA |
| d. | Prints: ABABAB |
| e. | Prints: ABABCAB |
| f. | Prints: ABABCABC |
| g. | Prints: ABCABCABC |
| h. | Compile-time error |
| i. | Run-time error |
| j. | None of the above |

**Question 4**

Which of these methods is a static member of the java.lang.String class?

|  |  |
| --- | --- |
| a. | append |
| b. | concat |
| c. | delete |
| d. | insert |
| e. | replace |
| f. | substring |
| g. | valueOf |
| h. | None of the above. |

**Question 5**

class MWC205 {

static void m1(StringBuffer s1) {

s1.append("B"); System.out.print(s1);

}

static void m2(StringBuffer s1) {

s1 = new StringBuffer("C"); System.out.print(s1);

}

public static void main(String[] s) {

StringBuffer s1 = new StringBuffer("A");

m1(s1); m2(s1);

System.out.print(s1);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: AAA |
| b. | Prints: ABCA |
| c. | Prints: ABCAB |
| d. | Prints: ABCABC |
| e. | Prints: ABCAC |
| f. | Prints: ABABCABC |
| g. | Compile-time error |
| h. | Run-time error |
| i. | None of the above |

**Question 6**

class MWC106 {

static void m1(String s) {

s = s.trim(); s = s.concat("D");

}

public static void main(String[] s) {

String s1 = "A", s2 = " B ", s3 = "C";

m1(s2);

System.out.print(s1 + s2 + s3);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: ABC |
| b. | Prints: A B C |
| c. | Prints: ABCD |
| d. | Prints: ABDC |
| e. | Prints: A B CD |
| f. | Prints: A B DC |
| g. | Compile-time error |
| h. | Run-time error |
| i. | None of the above |

**Question 7**

class MWC107 {

public static void main(String[] s) {

String s1 = "A", s2 = " B ", s3 = "C";

s2.trim(); s3.concat("D");

System.out.print(s1 + s2 + s3);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: ABC |
| b. | Prints: A B C |
| c. | Prints: ABCD |
| d. | Prints: ABDC |
| e. | Prints: A B CD |
| f. | Prints: A B DC |
| g. | Compile-time error |
| h. | Run-time error |
| i. | None of the above |

**Question 8**

class MWC108 {

public static void main(String[] s) {

String s1 = "A", s2 = " B ", s3 = "C";

s2.trim(); s3.append("D");

System.out.print(s1 + s2 + s3);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: ABC |
| b. | Prints: A B C |
| c. | Prints: ABCD |
| d. | Prints: ABDC |
| e. | Prints: A B CD |
| f. | Prints: A B DC |
| g. | Compile-time error |
| h. | Run-time error |
| i. | None of the above |

**Question 9**

class MWC110 {

static void m1(String s1, String s2) {

s1.insert(1,"D"); s1 = s1 + s2;

}

public static void main(String[] s) {

String s1 = "A", s2 = "B";

m1(s1,s2);

System.out.print(s1 + s2);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: AB |
| b. | Prints: ABB |
| c. | Prints: ADB |
| d. | Prints: ADBB |
| e. | Compile-time error |
| f. | Run-time error |
| g. | None of the above |

**Question 10**

class MWC111 {

static void m1(String s1) {

s1.replace('A','Y'); System.out.print(s1);

}

static void m2(String s1) {

s1 = s1.replace('A','Z'); System.out.print(s1);

}

public static void main(String[] s) {

String s1 = "A"; m1(s1); m2(s1);

System.out.print(s1);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: AAA |
| b. | Prints: YZA |
| c. | Prints: YAA |
| d. | Prints: AZA |
| e. | Prints: AZZ |
| f. | Compile-time error |
| g. | Run-time error |
| h. | None of the above |

**Question 11**

class MWC112 {

static void m1(String s1) {

s1 = s1.toUpperCase(); System.out.print(s1);

}

static void m2(String s1) {

s1.toLowerCase(); System.out.print(s1);

}

public static void main(String[] s) {

String s1 = "Ab";

m1(s1); m2(s1);

System.out.print(s1);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: AbAbAb |
| b. | Prints: ABabab |
| c. | Prints: ABabAb |
| d. | Prints: ABAbAb |
| e. | Prints: Ababab |
| f. | Compile-time error |
| g. | Run-time error |
| h. | None of the above |

**Question 12**

class MWC113 {

public static void main(String[] s) {

String s1 = "1", s2 = "2", s3 = s1 + s2;

s1 += s2; s3 += s1;

System.out.println(s3);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: 3 |
| b. | Prints: 6 |
| c. | Prints: 33 |
| d. | Prints: 1212 |
| e. | Compile-time error |
| f. | Run-time error |
| g. | None of the above |

**Question 13**

class MWC114 {

public static void main(String[] s) {

String s1 = new String("ABCDEFG"), s2 = new String("EFGHIJ");

String s3 = s1.substring(4,7), s4 = s2.substring(0,3);

System.out.println((s3 == s4) + "," + (s3 + s4).equals(s4 + s3));

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: false,false |
| b. | Prints: false,true |
| c. | Prints: true,false |
| d. | Prints: true,true |
| e. | Compile-time error |
| f. | Run-time error |
| g. | None of the above |

**Question 14**

class MWC115 {

public static void main(String[] s) {

String s1 = new String("ABCDEFG"), s2 = s1.substring(0,3);

String s3 = s1.substring(4,6); char c1 = s1.charAt(3);

System.out.println(s2.concat(String.valueOf(c1)).concat(s3));

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: "ABCDEFG" |
| b. | Prints: "ABCEFG" |
| c. | Prints: "ABCDDEFG" |
| d. | Prints: "ABCDEF" |
| e. | Prints: "ABCEF" |
| f. | Prints: "ABCDDEF" |
| g. | Compile-time error |
| h. | Run-time error |
| i. | None of the above |

**Question 15**

class MWC118 {

public static void main(String[] args) {

byte[] b = {'a', 'b', 'c'};

char[] c = {'a', 'b', 'c'};

String s = "abc";

StringBuffer sb = new StringBuffer("abc");

byte b2 = 'a';

char c2 = 'a';

String s1 = new String(b); // 1

String s2 = new String(c); // 2

String s3 = new String(s); // 3

String s4 = new String(sb); // 4

String s5 = new String(b2); // 5

String s6 = new String(c2); // 6

}}

Compile-time errors are generated at which lines?

|  |  |
| --- | --- |
| a. | 1 |
| b. | 2 |
| c. | 3 |
| d. | 4 |
| e. | 5 |
| f. | 6 |

**Question 16**

class MWC101 {

public static void main(String[] args) {

String s1 = "A", s2 = "a", s3 = "b";

s1.toLowerCase(); s3.replace('b','a');

System.out.print((s1.equals(s2)) + "," + (s2.equals(s3)));

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: false,false |
| b. | Prints: false,true |
| c. | Prints: true,false |
| d. | Prints: true,true |
| e. | Compile-time error |
| f. | Run-time error |
| g. | None of the above |

**Question 17**

class MWC200 {

public static void main (String[] args) {

String s1 = "ABC";

StringBuffer s2 = new StringBuffer(s1);

System.out.print(s2.equals(s1) + "," + s1.equals(s2));

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: false,false |
| b. | Prints: false,true |
| c. | Prints: true,false |
| d. | Prints: true,true |
| e. | Compile-time error |
| f. | Run-time error |
| g. | None of the above |

**Question 18**

class MWC102 {

public static void main (String[] args) {

String s1 = "ABCDE";

System.out.print(s1.substring(1,2)+s1.substring(3));

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: AABC |
| b. | Prints: ACDE |
| c. | Prints: ABABC |
| d. | Prints: ABCDE |
| e. | Prints: BABCD |
| f. | Prints: BDE |
| g. | Prints: BCABCD |
| h. | Prints: BCDE |
| i. | Compile-time error |
| j. | Run-time error |
| k. | None of the above |

**Question 19**

class MWC201 {

public static void main (String[] args) {

String s1 = new String("ABC"), s2 = new String("ABC");

StringBuffer sb1 = new StringBuffer(s1);

StringBuffer sb2 = new StringBuffer(s2);

System.out.print(s1.equals(s2) + "," + sb1.equals(sb2));

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: false,false |
| b. | Prints: false,true |
| c. | Prints: true,false |
| d. | Prints: true,true |
| e. | Compile-time error |
| f. | Run-time error |
| g. | None of the above |

**Question 20**

class MWC104 {

public static void main (String[] args) {

char[] c = {'a','b','c','d'};

String s1 = new String(c);

boolean b = true;

for (int i = 0; i < s1.length; i++) {

b &= (c[i] == s1.charAt(i));

}

System.out.print(b);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: false |
| b. | Prints: true |
| c. | Compile-time error |
| d. | Run-time error |
| e. | None of the above |

**Question 21**

class MWC202 {

public static void main (String[] args) {

StringBuffer sb1 = new StringBuffer("ABC");

StringBuffer sb2 = new StringBuffer("ABC");

System.out.print((sb1==sb2)+","+sb1.equals(sb2));

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: false,false |
| b. | Prints: false,true |
| c. | Prints: true,false |
| d. | Prints: true,true |
| e. | Compile-time error |
| f. | Run-time error |
| g. | None of the above |

**Question 22**

class MWC203 {

public static void main (String[] args) {

String s1 = new String("ABC"), s2 = new String("ABC");

StringBuffer sb1 = new StringBuffer(s1);

StringBuffer sb2 = new StringBuffer(s2);

boolean b1 = s1.hashCode() == s2.hashCode();

boolean b2 = sb1.hashCode() == sb2.hashCode();

System.out.print(b1 + "," + b2);

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: false,false |
| b. | Prints: false,true |
| c. | Prints: true,false |
| d. | Prints: true,true |
| e. | Compile-time error |
| f. | Run-time error |
| g. | None of the above |

**Question 23**

class MWC109 {

public static void main(String args[]) {

String a = "A", b = "B", c = a+b, d = a+b;

System.out.print(((a+b)==(a+b)) + ",");

System.out.print((c==d) + ",");

System.out.print(c.equals(d));

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: false,false,false |
| b. | Prints: false,false,true |
| c. | Prints: false,true,false |
| d. | Prints: false,true,true |
| e. | Prints: true,false,false |
| f. | Prints: true,false,true |
| g. | Prints: true,true,false |
| h. | Prints: true,true,true |

**Question 24**

class MWC116 {

public static void main(String[] args) {

String s1 = " B C D E ";

System.out.print('A' + s1.trim() + 'F');

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: ABCDEF |
| b. | Prints: A B C D E F |
| c. | Prints: A BCDEF |
| d. | Prints: ABCDE F |
| e. | Prints: AB C D EF |
| f. | Compile-time error |
| g. | Run-time error |
| h. | None of the above |

**Question 25**

class MWC117 {

public static void main (String[] args) {

System.out.print(String.valueOf(1) + String.valueOf(2));

String s1 = "S1";

String s2 = s1.toString();

System.out.print("," + (s1==s2));

}}

What is the result of attempting to compile and run the program?

|  |  |
| --- | --- |
| a. | Prints: 3,false |
| b. | Prints: 3,true |
| c. | Prints: 12,false |
| d. | Prints: 12,true |
| e. | Compile-time error |
| f. | Run-time error |
| g. | None of the above |