**Question 1**

class JMM102 {

public static void main(String args[]) {

for (int i = 0; i<5 ;i++) {

switch(i) {

case 0: System.out.print("v ");break;

case 1: System.out.print("w ");

case 2: System.out.print("x ");break;

case 3: System.out.print("y ");

case 4: System.out.print("z ");break;

default: System.out.print("d ");

}}}}

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

|  |  |
| --- | --- |
| a. | Prints: v w x y z |
| b. | Prints: v w x y z d |
| **c.** | **Prints: v w x x y z z** |
| d. | Prints: v w w x y y z d |
| e. | Prints: d d d d d d |
| f. | Run-time error |
| g. | Compile-time error |
| h. | None of the above |

**Question 2**

class JMM103 {

public static void main(String args[]) {

for (int i = 0; i < 5 ;i++) {

switch(i) {

0: System.out.print("v ");break;

1: System.out.print("w ");

2: System.out.print("x ");break;

3: System.out.print("y ");

4: System.out.print("z ");break;

}}}}

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

|  |  |
| --- | --- |
| a. | Prints: v w x y z |
| b. | Prints: v w x x y z z |
| c. | Prints: v w w x y y z |
| d. | Run-time error. |
| e. | **Compile-time error.** |
| f. | None of the above. |

**Question 3**

class JMM107 {

public static void main(String[] args) {

boolean b = true;

if (b = false) {System.out.print("A");

} else if (b) {System.out.print("B");

} else {System.out.print("C");}

}}

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

|  |  |
| --- | --- |
| a. | Prints: A |
| b. | Prints: B |
| c. | **Prints: C** |
| d. | Run-time error |
| e. | Compile-time error |
| f. | None of the above |

**Question 4**

class JMM108 {

static boolean b;

public static void main(String[] args) {

if (b) {System.out.print("A");

} else if (b = false) {System.out.print("B");

} else if (b) {System.out.print("C");

} else if (!b) {System.out.print("D");

} else {System.out.print("E");}

}}

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

|  |  |
| --- | --- |
| a. | Prints: A |
| b. | Prints: B |
| c. | Prints: C |
| d. | **Prints: D** |
| e. | Prints: E |
| f. | Run-time error |
| g. | Compile-time error |
| h. | None of the above |

**Question 5**

class JMM109 {

public static void main(String[] args) {

boolean b;

if (b = false) {System.out.print("A");

} else if (b) {System.out.print("B");

} else if (!b) {System.out.print("C");

} else {System.out.print("D");}

}}

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

|  |  |
| --- | --- |
| a. | Prints: A |
| b. | Prints: B |
| c. | **Prints: C** |
| d. | Prints: D |
| e. | Run-time error |
| f. | Compile-time error |
| g. | None of the above |

**Question 6**

class JMM122 {

public static void main (String[] args) {

for (int i = 0; i < 4; i++) {

switch (i) {

case 0: System.out.print("A");

case 1: System.out.print("B");

case 2: System.out.print("C");

}}}}

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

|  |  |
| --- | --- |
| a. | Prints: ABC |
| b. | Prints: ABCC |
| c. | Prints: CBA |
| d. | **Prints: ABCBCC** |
| e. | Run-time error |
| f. | Compile-time error |
| g. | None of the above |

**Question 7**

class JMM123 {

public static void main (String args[]) {

int i = 0, j = 0, k = 0;

label1:

for (int h = 0; h < 6; h++) {

label2:

do { i++; k = h + i + j;

switch (k) {

default: break label1;

case 1: continue label2;

case 2: break;

case 3: break label2;

case 4: continue label2;

case 5: continue label1;

}

} while (++j<5);

}

System.out.println(h + "," + i + "," + j);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 0,1,0 |
| b. | Prints: 0,2,1 |
| c. | Prints: 1,3,1 |
| d. | Prints: 2,4,1 |
| e. | Run-time error |
| f. | **Compile-time error** |
| g. | None of the above |

**Question 8**

class JMM103 {

public static void main(String args[]) {

byte b = -1;

switch(b) {

case 0: System.out.print("zero "); break;

case 100: System.out.print("100 "); break;

case 1000: System.out.print("1000 "); break;

default: System.out.print("Default ");

}}}

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

|  |  |
| --- | --- |
| a. | Prints: zero |
| b. | Prints: 100 |
| c. | Prints: 1000 |
| d. | Prints: Default |
| e. | Run-time error |
| **f.** | **Compile-time error** |
| g. | None of the above |

**Question 9**

class JMM104 {

public static void main (String args[]) {

char c = 'b';

switch(c) {

case 'a': System.out.print("1");

case 'b': System.out.print("2");

case 'c': System.out.print("3");

default: System.out.print("4");

}}}

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

|  |  |
| --- | --- |
| a. | Prints: 3 |
| b. | Prints: 34 |
| c. | Prints: 234 |
| d. | Prints: 1234 |
| e. | Run-time error |
| f. | Compile-time error |
| g. | None of the above |

**Question 10**

class JMM105 {

public static void main(String args[]) {

int x = 6; int success = 0;

do {

switch(x) {

case 0: System.out.print("0"); x += 5; break;

case 1: System.out.print("1"); x += 3; break;

case 2: System.out.print("2"); x += 1; break;

case 3: System.out.print("3"); success++; break;

case 4: System.out.print("4"); x -= 1; break;

case 5: System.out.print("5"); x -= 4; break;

case 6: System.out.print("6"); x -= 5; break;

}

} while ((x != 3) || (success < 2));

}}

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

|  |  |
| --- | --- |
| a. | Prints: 60514233 |
| b. | Prints: 6152433 |
| c. | **Prints: 61433** |
| d. | Prints: 6143 |
| e. | Run-time error |
| f. | Compile-time error |

**Question 11**

class JMM106 {

public static void main(String args[]) {

int x = -5; int success = 0;

do {

switch(x) {

case 0: System.out.print("0"); x += 5; break;

case 1: System.out.print("1"); x += 3; break;

case 2: System.out.print("2"); x += 1; break;

case 3: System.out.print("3"); success++; break;

case 4: System.out.print("4"); x -= 1; break;

case 5: System.out.print("5"); x -= 4; break;

case 6: System.out.print("6"); x -= 5; break;

default: x += x < 0 ? 2 : -2;

}

} while ((x != 3) || (success < 2));

}}

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

|  |  |
| --- | --- |
| a. | Prints: 60514233 |
| b. | **Prints: 1433** |
| c. | Prints: 61433 |
| d. | Prints: 051433 |
| e. | Run-time error |
| f. | Compile-time error |

**Question 12**

class JMM124 {

public static void main(String args[]) {

int k;

for (int i=0, j=0; i<2; i++,j++) {System.out.print(i);} // 1

for (int i=0, k=0; i<2; i++,k++) {System.out.print(i);} // 2

for (int i=0, int j=0; i<2; i++,j++) {System.out.print(i);} // 3

}}

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

|  |  |
| --- | --- |
| a. | Prints: 012345 |
| b. | Prints: 010101 |
| c. | Compile-time error at line 1 |
| d. | Compile-time error at line 2 |
| e. | **Compile-time error at line 3** |
| f. | Run-time error |

**Question 13**

class JMM125 {

static int i;

public static void main(String args[]) {

for (i=1; i<3; i++) {System.out.print(i);} // 1

for (int i=1; i<3; i++) {System.out.print(i);} // 2

int i; // 3

for (i=0; i<2; i++) {System.out.print(i);} // 4

System.out.print(JMM125.i);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 1212010 |
| b. | **Prints: 1212013** |
| c. | Compile-time error at line 1 |
| d. | Compile-time error at line 2 |
| e. | Compile-time error at line 4 |
| f. | Run-time error |
| g. | None of the above |

**Question 14**

class JMM126 {

static int i;

public static void main(String args[]) {

for (i=1; i<3; i++) {System.out.print(i);} // 1

for (int i=1; i<3; i++) {System.out.print(i);} // 2

int i; // 3

for (int i=0; i<2; i++) {System.out.print(i);} // 4

System.out.print(JMM126.i);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 1212010 |
| b. | Prints: 1212013 |
| c. | Compile-time error at line 1 |
| d. | Compile-time error at line 2 |
| e. | **Compile-time error at line 4** |
| (error: variable i is already defined in method main(String[])  f. | Run-time error |
| g. | None of the above |

**Question 15**

class JMM101 {

public static void main(String[] args) {

int i = 0;

while (i++ < args.length) {

System.out.print(args[i]);

}}}

java JMM101 A B C D E F

What is the result of attempting to compile and run the program using the specified command line?

|  |  |
| --- | --- |
| a. | Prints: JMM101ABCDEF |
| b. | Prints: ABCDEF |
| c. | **Compile-time error** |
| d. | Run-time error |
| e. | None of the above |

**Question 16**

class JMM110 {

public static void main (String[] args) {

int j = 0;

do for (int i = 0; i++ < 2;)

System.out.print(i);

while (j++ < 2);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 0001 |
| b. | Prints: 012 |
| c. | Prints: 012012 |
| d. | Prints: 012345 |
| e. | Prints: 001122 |
| f. | Prints: 1112 |
| g. | Prints: 111222 |
| h. | **Prints: 121212** |
| i. | Run-time error |
| j. | Compile-time error |
| k. | None of the above |

**Question 17**

class JMM111 {

public static void main (String[] args) {

int j = 0;

for (int i = 0; i < 2; i++) do

System.out.print(i);

while (j++ < 2);

}}

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

|  |  |
| --- | --- |
| a. | **Prints: 0001** |
| b. | Prints: 012 |
| c. | Prints: 012012 |
| d. | Prints: 012345 |
| e. | Prints: 001122 |
| f. | Prints: 1112 |
| g. | Prints: 111222 |
| h. | Prints: 121212 |
| i. | Run-time error |
| j. | Compile-time error |
| k. | None of the above |

**Question 18**

class JMM112 {

public static void main (String[] args) {

int j = 0;

for (int i = 0; i++ < 2;) do

System.out.print(i);

while (j++ < 2);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 0001 |
| b. | Prints: 012 |
| c. | Prints: 012012 |
| d. | Prints: 012345 |
| e. | Prints: 001122 |
| f. | **Prints: 1112** |
| g. | Prints: 111222 |
| h. | Prints: 121212 |
| i. | Run-time error |
| j. | Compile-time error |
| k. | None of the above |

**Question 19**

class JMM113 {

public static void main (String[] args) {

int i = 0, j = 0, k = 0;

do while (i++ < 3)

System.out.print(k++);

while (j++ < 3);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 0001 |
| b. | **Prints: 012** |
| c. | Prints: 012012 |
| d. | Prints: 012345 |
| e. | Prints: 001122 |
| f. | Prints: 1112 |
| g. | Prints: 111222 |
| h. | Prints: 121212 |
| i. | Run-time error |
| j. | Compile-time error |
| k. | None of the above |

**Question 20**

class JMM114 {

public static void main (String[] args) {

int i = 0, j = 0;

while (i++ < 3) do

System.out.print(j);

while (j++ < 3);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 0001 |
| b. | Prints: 001122 |
| c. | Prints: 012012 |
| d. | **Prints: 012345** |
| e. | Prints: 1112 |
| f. | Prints: 111222 |
| g. | Prints: 121212 |
| h. | Run-time error |
| i. | Compile-time error |
| j. | None of the above |

**Question 21**

class JMM115 {

static int m1(String s, int i) {

System.out.print(s + i);

return i;

}

public static void main (String[] args) {

int i = 0, j = 0, k = 0;

do while (m1("i", ++i) < 2)

System.out.print("k" + ++k);

while (m1("j", ++j) < 2);

}}

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

|  |  |
| --- | --- |
| a. | Prints: i1k1i2k2j1i3j2 |
| b. | Prints: i1k1i2k2j1i1k1i2k2j2 |
| c. | Prints: i1k1i2j1i3j2 |
| d. | Run-time error |
| e. | **Compile-time error** |
| f. | None of the above |

**Question 22**

class JMM116 {

static int m1(String s, int i) {

System.out.print(s + i);

return i;

}

public static void main (String[] args) {

int j = 0;

for (int i = m1("A",0); m1("B",i) < 2; m1("C",++i)) {

m1("J",++j);

}

}}

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

|  |  |
| --- | --- |
| a. | Prints: A0B0C1J1B1C2J2B2 |
| b. | **Prints: A0B0J1C1B1J2C2B2** |
| c. | Prints: A0B0J1C1A1B1J2C2A2B2 |
| d. | Run-time error |
| e. | Compile-time error |
| f. | None of the above |

**Question 23**

class JMM117 {

public static void main (String[] args) {

int i = 0, j = 9;

do {

i++;

if (j-- < i++) {break;}

} while (i < 5);

System.out.print(i + "," + j);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 5,4 |
| b. | Prints: 6,3 |
| **c.** | **Prints: 6,6** |
| d. | Prints: 7,2 |
| e. | Run-time error |
| f. | Compile-time error |
| g. | None of the above |

**Question 24**

class JMM118 {

public static void main (String[] args) {

int i = 0, j = 9;

while (i++ <= j--) {i++; if (j < 5) break;}

System.out.print(i + "," + j);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 4,7 |
| b. | Prints: 6,6 |
| c. | Prints: 7,2 |
| d. | Prints: 8,5 |
| e. | **Prints: 9,4** |
| f. | Run-time error |
| g. | Compile-time error |
| h. | None of the above |

**Question 25**

class JMM119 {

public static void main (String[] args) {

int i = 0, j = 9;

do {

if (j < 4) {break;} else if (j-- < 7) {continue;}

i++;

} while (i++ < 7);

System.out.print(i + "," + j);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 4,7 |
| b. | Prints: 6,6 |
| c. | Prints: 6,5 |
| d. | Prints: 6,4 |
| e. | Prints: 7,5 |
| **f.** | **Prints: 8,4** |
| g. | Run-time error |
| h. | Compile-time error |
| i. | None of the above |

**Question 26**

class JMM120 {

public static void main (String args[]) {

int i = 0, j = 0, k = 0;

label1:

for (;;) { i++;

label2:

do {

k = i + j;

switch (k) {

case 0: continue label2;

case 1: continue label1;

case 2: break;

case 3: break label2;

case 4: break label1;

default: break label1;

}

} while (++j<5);

}

System.out.println(i + "," + j);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 2,1 |
| b. | Prints: 2,2 |
| c. | **Prints: 3,1** |
| d. | Prints: 3,2 |
| e. | Prints: 3,3 |
| f. | Run-time error |
| g. | Compile-time error |
| h. | None of the above |

**Question 27**

class JMM121 {

public static void main (String args[]) {

int h = 0, i = 0, j = 0, k = 0;

label1:

for (;;) { h++;

label2:

do { i++; k = h + i + j;

switch (k) {

default: break label1;

case 1: continue label1;

case 2: break;

case 3: break label2;

case 4: continue label2;

case 5: continue label1;

}

} while (++j < 5);

}

System.out.println(h + "," + i + "," + j);

}}

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

|  |  |
| --- | --- |
| a. | Prints: 1,2,3 |
| **b.** | **Prints: 1,3,2** |
| c. | Prints: 2,2,2 |
| d. | Prints: 2,4,1 |
| e. | Prints: 2,4,2 |
| f. | Run-time error |
| g. | Compile-time error |
| h. | None of the above |

Q17 after for 1stexecution do runs for 3times and then I in for loop increments

Q18 is same as previous

Q19 first inner while runs and then do while runs

Q20 q19 reverse