

192面向对象程序设计

Test

复查测验提交: 10th_Chapter05_Exercise

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用户	计算机1801 莫明达
课程	192面向对象程序设计
测试	10th_Chapter05_Exercise
已开始	19-11-20 上午9:57
已提交	19-11-20 上午9:57
状态	已完成
尝试分数	得 0 分, 满分 520 分
已用时间	0 分钟
显示的结果	已提交的答案, 正确答案

问题 1

得 0 分, 满分 10 分

How many times will the following code print "Welcome to Java"?

```
int count = 0;
do {
    System.out.println("Welcome to Java");
} while (++count < 10);
```


所选答案:  [未给定]正确答案:  A.10

问题 2

得 0 分, 满分 10 分

Analyze the following code:

```
public class Test {
    public static void main (String args[]) {
        int i = 0;
        for (i = 0; i < 10; i++);
        System.out.println(i + 4);
    }
}
```

所选答案:  [未给定]
案:正确答案: 

案: A.The program compiles despite the semicolon (;) on the for loop line, and displays 14.



B.The for loop in this program is same as for (i = 0; i < 10; i++) { };
System.out.println(i + 4);

问题 3

得 0 分, 满分 10 分

What is the output of the following fragment?

```
for (int i = 0; i < 15; i++) {  
    if (i % 4 == 1)  
        System.out.print(i + " ");  
}
```

所选答案:  [未给定]


正确答案:  E.1 5 9 13

问题 4

得 0 分, 满分 10 分

In a for statement, if the continuation condition is blank, the condition is assumed to be ____.

所选答案:  [未给定]

正确答案:  B.true

问题 5

得 0 分, 满分 10 分

You can always convert a while loop to a for loop.

所选答案:  [未给定]

正确答案:  B.true

问题 6

得 0 分, 满分 10 分

What is the number of iterations in the following loop?

```
for (int i = 1; i < n; i++) {  
    // iteration  
}
```

所选答案:  [未给定]

正确答案:  B.n - 1


问题 7

得 0 分, 满分 10 分

How many times will the following code print "Welcome to Java"?

```
int count = 0;
while (count++ < 10) {
    System.out.println("Welcome to Java");
}
```

所选答案:  [未给定]

正确答案:  B.10


问题 8

得 0 分, 满分 10 分

How many times will the following code print "Welcome to Java"?

```
int count = 0;
do {
    System.out.println("Welcome to Java");
} while (count++ < 10);
```

所选答案:  [未给定]

正确答案:  B.11

问题 9


得 0 分, 满分 10 分


Analyze the following code.

```
int count = 0;
while (count < 100) {
    // Point A
    System.out.println("Welcome to Java!");
    count++;
    // Point B
}

// Point C
```

所选答案:  [未给定]

正确答案:  B.count < 100 is always true at Point A

 D.count < 100 is always false at Point C

问题 10

得 0 分, 满分 10 分

Analyze the following fragment:


```
double sum = 0;
double d = 0;
while (d != 10.0) {
```

```
d += 0.1;
sum += sum + d;
}
```

所选  [未给定]

答

案:

正确 

答 C.The program may not stop because of the phenomenon referred to as

案: numerical inaccuracy for operating with floating-point numbers.

问题 11


得 0 分, 满分 10 分

Analyze the following code.

```
int x = 1;
while (0 < x) && (x < 100)
    System.out.println(x++);
```

所选答  [未给定]

案:

正确答案 

案: B.The code does not compile because (0 < x) && (x < 100) is not enclosed in a pair of parentheses.

问题 12

得 0 分, 满分 10 分

Which of the following loops correctly computes $1/2 + 2/3 + 3/4 + \dots + 99/100$?

A:

```
double sum = 0;
for (int i = 1; i <= 99; i++) {
    sum = i / (i + 1);
}
System.out.println("Sum is " + sum);
```

B:

```
double sum = 0;
for (int i = 1; i < 99; i++) {
    sum += i / (i + 1);
}
System.out.println("Sum is " + sum);
```

C:

```
double sum = 0;
for (int i = 1; i <= 99; i++) {
    sum += 1.0 * i / (i + 1);
}
System.out.println("Sum is " + sum);
```


D:

```
double sum = 0;
for (int i = 1; i <= 99; i++) {
    sum += i / (i + 1.0);
}
System.out.println("Sum is " + sum);
```

E:

```
double sum = 0;
for (int i = 1; i < 99; i++) {
    sum += i / (i + 1.0);
}
System.out.println("Sum is " + sum);
```

所选答案:  [未给定]

正确答案:  A.CD


问题 13

得 0 分, 满分 10 分

What is y after the following for loop statement is executed?

```
int y = 0;
for (int i = 0; i < 10; ++i) {
    y += 1;
}
```

所选答案:  [未给定]

正确答案:  D.10

问题 14

得 0 分, 满分 10 分

What is i after the following for loop?

```
int y = 0;
for (int i = 0; i<10; ++i) {
    y += i;
}
```

所选答案:  [未给定]

正确答案:  B.undefined

问题 15

得 0 分, 满分 10 分


What is the printout after the following loop terminates?

```
int number = 25;
int i;
```

```
boolean isPrime = true;
for (i = 2; i < number; i++) {
    if (number % i == 0) {
        isPrime = false; break;
    }
}

System.out.println("i is " + i + " isPrime is " + isPrime);
```

所选答案:  [未给定]

正确答案:  A.i is 5 isPrime is false

问题 16

得 0 分, 满分 10 分

You can always convert a for loop to a while loop.

所选答案:  [未给定]

正确答案:  A.true

问题 17

得 0 分, 满分 10 分

Analyze the following statement:

```
double sum = 0;
for (double d = 0; d < 10;) {
    d += 0.1;
    sum += sum + d;
}
```

所选答案:  [未给定]

正确答案:  D.The program compiles and runs fine.


问题 18

得 0 分, 满分 10 分

What is sum after the following loop terminates?

```
int sum = 0;
int item = 0;
do {
    item++;
    sum += item;
    if (sum >= 4) continue;
}
while (item < 5);
```

所选答案:  [未给定]

正确答案:  A.15


问题 19

得 0 分, 满分 10 分

What is the output of the following fragment?

```
int i = 1;
int j = 1;
while (i < 5) {
    i++;
    j = j * 2;
}
System.out.println(j);
```

所选答案:  [未给定]

正确答案:  E.16


问题 20

得 0 分, 满分 10 分

How many times will the following code print "Welcome to Java"?

```
int count = 0;
do {
    System.out.println("Welcome to Java");
    count++;
} while (count < 10);
```

所选答案:  [未给定]

正确答案:  D.10

问题 21

得 0 分, 满分 10 分

A break statement can be used only in a loop.

所选答案:  [未给定]

正确答案:  A.false

问题 22


得 0 分, 满分 10 分

Will the following program terminate?

```
int balance = 10;

while (true) {
    if (balance < 9) break;
    balance = balance - 9;
}
```

所选答案:  [未给定]


正确答案:  A.Yes

问题 23

得 0 分, 满分 10 分

Which of the following expression yields an integer between 0 and 100, inclusive?

所选答案:  [未给定]

正确答案:  A.(int)(Math.random() * 101)

问题 24

得 0 分, 满分 10 分

Assume x is 0. What is the output of the following statement?

```
if (x > 0)
    printf("x is greater than 0");
else if (x < 0)
    printf("x is less than 0");
else
    printf("x equals 0");
```

所选答案:  [未给定]

正确答案:  C.x equals 0

问题 25

得 0 分, 满分 10 分

Suppose the input for number is 9. What is the output from running the following program?

```
import java.util.Scanner;

public class Test {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.print("Enter an integer: ");
        int number = input.nextInt();

        int i;

        boolean isPrime = true;
        for (i = 2; i < number && isPrime; i++) {
            if (number % i == 0) {
                isPrime = false;
            }
        }


        System.out.println("i is " + i);

        if (isPrime)
            System.out.println(number + " is prime");
        else
```



```
        System.out.println(number + " is not prime");  
    }  
}
```

所选答案:  [未给定]

正确答案:  A.i is 4 followed by 9 is not prime


问题 26

得 0 分, 满分 10 分

What is the output for y?

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

所选答案:  [未给定]

正确答案:  D.45

问题 27

得 0 分, 满分 10 分

What balance after the following code is executed?

```
int balance = 10;  
  
while (balance >= 1) {  
    if (balance < 9) continue;  
    balance = balance - 9;  
}
```

所选答案:  [未给定]

正确答案:  C.The loop does not end


问题 28

得 0 分, 满分 10 分

What is the output of the following code:

```
for ( ; ; )  
    System.out.println("Welcome to Java");
```

所选答案:  [未给定]

正确答案:  C.prints out Welcome to Java forever.

问题 29

得 0 分, 满分 10 分

A continue statement can be used only in a loop.

所选答案:  [未给定]

正确答案:  B.true


问题 30

得 0 分, 满分 10 分

What is the number of iterations in the following loop?

```
for (int i = 1; i <= n; i++) {  
    // iteration  
}
```

所选答案:  [未给定]

正确答案:  C.n

问题 31

得 0 分, 满分 10 分

Which of the following loops prints "Welcome to Java" 10 times?

A:

```
for (int count = 1; count <= 10; count++) {  
    System.out.println("Welcome to Java");  
}
```

B:

```
for (int count = 0; count < 10; count++) {  
    System.out.println("Welcome to Java");  
}
```


C:

```
for (int count = 1; count < 10; count++) {  
    System.out.println("Welcome to Java");  
}
```

D:

```
for (int count = 0; count <= 10; count++) {  
    System.out.println("Welcome to Java");  
}
```

所选答案:  [未给定]

正确答案:  A.AB


问题 32

得 0 分, 满分 10 分

Is the following loop correct?

```
for (; ; );
```

所选答案:  [未给定]


正确答案:  A.Yes

问题 33

得 0 分, 满分 10 分

The elements inside the for loop control are separated using semicolons instead of commas.

所选答案:  [未给定]

正确答案:  A.true


问题 34

得 0 分, 满分 10 分

How many times is the println statement executed?

```
for (int i = 0; i < 10; i++)  
    for (int j = 0; j < i; j++)  
        System.out.println(i * j)
```

所选答案:  [未给定]

正确答案:  C.45

问题 35

得 0 分, 满分 10 分

A variable declared in the for loop control can be used after the loop exits.

所选答案:  [未给定]

正确答案:  A.false


问题 36

得 0 分, 满分 10 分

What is the value of balance after the following code is executed?

```
int balance = 10;  
  
while (balance >= 1) {  
    if (balance < 9) break;  
    balance = balance - 9;  
}
```

所选答案:  [未给定]

正确答案:  A.1

问题 37

得 0 分, 满分 10 分

You can always write a program without using break or continue in a loop.

所选答案:  [未给定]

正确答案:  A.true

问题 38

得 0 分, 满分 10 分

Do the following two statements in (I) and (II) result in the same value in sum?


(I):

```
for (int i = 0; i<10; ++i) {  
    sum += i;  
}
```

(II):

```
for (int i = 0; i<10; i++) {  
    sum += i;  
}
```

所选答案:  [未给定]

正确答案:  B.Yes


问题 39

得 0 分, 满分 10 分

What is the value in count after the following loop is executed?

```
int count = 0;  
do {  
    System.out.println("Welcome to Java");  
} while (count++ < 9);  
System.out.println(count);
```

所选答案:  [未给定]

正确答案:  B.10

问题 40

得 0 分, 满分 10 分

Which of the following loops produces the output

1 2 3 4 1 2 3 1 2 1

(I)


```
for (int i = 5; i > 0; i--) {  
    for (int j = 1; j < i; j++)  
        System.out.print(j + " ");  
    System.out.println();  
}
```

```
(II)
    for (int i = 1; i < 5; i++) {
        for (int j = 1; j < i; j++)
            System.out.print(j + " ");
        System.out.println();
    }

(III)
    int i = 0;
    while (i < 5) {
        for (int j = 1; j < i; j++)
            System.out.print(j + " ");
        System.out.println();
        i++;
    }

(IV)
    int i = 5;
    while (i > 0) {
        for (int j = 1; j < i; j++)
            System.out.print(j + " ");
        System.out.println();
        i--;
    }
```

所选答案:  [未给定]

正确答案:  B.(IV)

 C.(I)


问题 41

得 0 分, 满分 10 分

How many times will the following code print "Welcome to Java"?

```
int count = 0;
while (count < 10) {
    System.out.println("Welcome to Java");
    count++;
}
```

所选答案:  [未给定]

正确答案:  A.10

问题 42

得 0 分, 满分 10 分

Suppose cond1 is a Boolean expressions. When will this while condition be true?

```
while (cond1) ...
```

所选答案:  [未给定]

正确答案:  B.in case cond1 is true

问题 43


得 0 分, 满分 10 分

Will the following program terminate?

```
int balance = 10;

while (true) {
    if (balance < 9) continue;
    balance = balance - 9;
}
```

所选答案:  [未给定]

正确答案:  A.No


问题 44

得 0 分, 满分 10 分

What is the output of the following code:

```
for ( ; false ; )
    System.out.println("Welcome to Java");
```

所选答案:  [未给定]


正确答案:  D.does not print anything.

问题 45

得 0 分, 满分 10 分

To add $0.01 + 0.02 + \dots + 1.00$, what order should you use to add the numbers to get better accuracy?

所选答案:  [未给定]

正确答案:  B.add 0.01, 0.02, ..., 1.00 in this order to a sum variable whose initial value is 0.

问题 46

得 0 分, 满分 10 分

The following loop displays _____.

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

所选答案:  [未给定]

正确答案:  D.1 3 5 7 9

问题 47

得 0 分, 满分 10 分

Analyze the following code.

```
double sum = 0;
for (double d = 0; d < 10; sum += sum + d) {
    d += 0.1;
}
```

所选答案:  [未给定]

正确答案:  B.The program compiles and runs fine.

问题 48

得 0 分, 满分 10 分


What is the printout after the following loop terminates?

```
int number = 25;
int i;
```

```
boolean isPrime = true;
for (i = 2; i < number && isPrime; i++) {
    if (number % i == 0) {
        isPrime = false;
    }
}
```

```
System.out.println("i is " + i + " isPrime is " + isPrime);
```

所选答案:  [未给定]

正确答案:  A.i is 6 isPrime is false

问题 49

得 0 分, 满分 10 分

Analyze the following code:


```
import java.util.Scanner;

public class Test {
    public static void main(String[] args) {
        int sum = 0;
        for (int i = 0; i < 100000; i++) {
            Scanner input = new Scanner(System.in);
            sum += input.nextInt();
        }
    }
}
```

所选  [未给定]

答

案:

正确 


答 C.The program compiles and runs, but it is not efficient and unnecessary to execute the Scanner input = new Scanner(System.in); statement inside the loop. You should move the statement before the loop.

问题 50

得 0 分，满分 10 分

The while loop and the do loop are equivalent in their expressive power; in other words, you can rewrite a while loop using a do loop, and vice versa.

所选答案:  [未给定]

正确答案:  B.true

问题 51

得 0 分，满分 10 分

Which of the loop statements always have their body executed at least once.

所选答案:  [未给定]

正确答案:  C.The do-while loop


问题 52

得 0 分，满分 10 分

What is sum after the following loop terminates?

```
int sum = 0;
int item = 0;
do {
    item++;
    sum += item;
    if (sum > 4) break;
}
while (item < 5);
```

所选答案:  [未给定]

正确答案:  A.6

2019年11月20日 星期三 上午09时57分30秒 CST

← 确定