

Quiz: Chapter 5

Due Jul 3 at 11:59pm **Points 100** **Questions 25**
Available until Jul 21 at 11:59pm **Time Limit** 50 Minutes
Allowed Attempts Unlimited

Instructions

This quiz consists of 25 questions from Chapter 5. You have 50 minutes to complete the quiz. You may retake this quiz as many times as you would like. You cannot use your textbook or any other materials, so make sure you are familiar with the content prior to taking the quiz.

[Take the Quiz Again](#)

Attempt History

	Attempt	Time	Score
KEPT	<u>Attempt 2</u>	7 minutes	100 out of 100
LATEST	<u>Attempt 2</u>	7 minutes	100 out of 100
	<u>Attempt 1</u>	33 minutes	88 out of 100

❗ Correct answers are hidden.

Score for this attempt: **100** out of 100

Submitted Jul 2 at 8:15pm

This attempt took 7 minutes.

Question 1

4 / 4 pts

Assume that all variables are properly declared. The following for loop executes 20 times.

```
for (i = 0; i <= 20; i++)  
{
```

```
    cout << i;  
}
```

True

False

Question 2

4 / 4 pts

The _____ statement is typically used for two purposes:

- To exit early from a loop.
- To skip the remainder of a switch structure.

exit

break

quit

continue

Question 3

4 / 4 pts

Consider the following code.

```
int limit;  
int reps = 0;  
  
cin >> limit;
```

```
while (reps < limit)
{
    cin >> entry;

    triple = entry * 3;

    cout << triple;

    reps++;
}

cout << endl;
```

This code is an example of a(n) _____ while loop.

- EOF-controlled
- flag-controlled
- sentinel-controlled
- counter-controlled

Question 4

4 / 4 pts

In _____ structures, the computer repeats particular statements a certain number of times depending on some condition(s).

- branching
- looping
- selection
- sequence

Question 5**4 / 4 pts**

Consider the following code:

```
#include <iostream>

using namespace std;

int main()
{
    int num1, num2;

    cout << "Enter two numbers: ";
    cin >> num1 >> num2;

    while (num1 <= num2)
    {
        cout << num1 << " ";
        num1++;
    }

    return 0;
}
```

What would be printed if num1 = 0 and num2 = 2? If this would be an infinite loop, answer with just the words "infinite loop".

2 1 0

0 1 2

infinite loop

012

Question 6**4 / 4 pts**

The control variable in a flag-controlled while loop is a bool variable.

False

True

Question 7

4 / 4 pts

What is the initial statement in the following for loop? (Assume that all variables are properly declared.)

```
int i;  
  
for (i = 1; i < 20; i++)  
    cout << "Hello World";  
  
cout << "!" << endl;
```

i = 1;

i++;

i < 20;

cout << "Hello World";

Question 8

4 / 4 pts

Consider the following code:

```
#include <iostream>

using namespace std;

int main()
{
    for (int i = 0; i < 10; i++)
    {
        if (i % 2 == 0)
        {
            cout << i << " ";
        }
    }

    cout << endl;

    return 0;
}
```

What would this program print?

86420

02468

0 2 4 6 8

8 6 4 2 0

Question 9

4 / 4 pts

Suppose sum and num are int variables, and the input is 18 25 61 6 -1. What is the output of the following code?

```
sum = 0;

cin >> num;

while (num != -1)
```

```
{  
    sum = sum + num;  
  
    cin >> num;  
}  
  
cout << sum << endl;
```

110

109

92

119

Question 10

4 / 4 pts

In a while and for loop, the loop condition is evaluated before executing the body of the loop. Therefore, while and for loops are called _____ loops.

pretest

posttest

latetest

earlytest

Question 11

4 / 4 pts

Assume all variables are properly declared. The output of the following C++ code is 2 3 4 5.

```
n = 1;

while (n < 5)
{
    n++;

    cout << n << " ";
}
```

True

False

Question 12

4 / 4 pts

Consider the following code:

```
#include <iostream>

using namespace std;

int main()
{
    for (int i = 0; i < 10; i++)
    {
        if (i % 2 != 0)
        {
            cout << i << " ";
        }
    }

    cout << endl;

    return 0;
}
```

What would this program print?

13579

9 7 5 3 1

1 3 5 7 9

97531

Question 13

4 / 4 pts

What executes immediately after a continue statement in a while and do-while loop?

loop condition

loop-continue test

the body of the loop

update statement

Question 14

4 / 4 pts

Suppose sum, num, and j are int variables, and the input is 4 7 12 9 -1. What is the output of the following code?

```
cin >> sum;
```

```
cin >> num;
```

```
for (j = 1; j <= 3; j++)
{
    cin >> num;

    sum = sum + num;

}

cout << sum << endl;
```

25

41

42

24

Question 15

4 / 4 pts

The control statements in the for loop include the initial statement, loop condition, and update statement.

False

True

Question 16

4 / 4 pts

In a counter-controlled while loop, the loop control variable must be initialized before the loop.

- False
- True

Question 17**4 / 4 pts**

Consider the following code. (Assume that all variables are properly declared.)

```
cin >> ch;  
  
while (cin)  
{  
    cout << ch;  
    cin >> ch;  
}
```

This code is an example of a(n) _____ while loop.

- EOF-controlled
- counter-controlled
- sentinel-controlled
- flag-controlled

Question 18**4 / 4 pts**

In the case of the sentinel-controlled while loop, the first item is read before the while loop is entered.

False True**Question 19****4 / 4 pts**

In a sentinel-controlled while loop, the body of the loop continues to execute until the EOF symbol is read.

 True False**Question 20****4 / 4 pts**

Consider the following code:

```
#include <iostream>

using namespace std;

int main()
{
    int num1, num2;

    cout << "Enter two numbers: ";
    cin >> num1 >> num2;

    while (num1 <= num2)
    {
        cout << num1 << " ";
    }

    return 0;
}
```

What would be printed if num1 = 0 and num2 = 3? If this would be an infinite loop, answer with just the words "infinite loop".

4

0

infinite loop

3

Question 21

4 / 4 pts

Suppose j, sum, and num are int variables, and the input is 26 34 61 4 -1. What is the output of the code?

```
sum = 0;

cin >> num;

for (int j = 1; j <= 4; j++)
{
    sum = sum + num;

    cin >> num;

}

cout << sum << endl;
```

125

124

126

127**Question 22****4 / 4 pts**

The following while loop terminates when $j > 20$.

```
j = 0;  
while (j < 20)  
    j++;
```

 True False**Question 23****4 / 4 pts**

The statement in the body of a while loop acts as a decision maker.

 False True**Question 24****4 / 4 pts**

_____ loops are called posttest loops.

- break
- for
- while
- do...while

Question 25**4 / 4 pts**

The number of iterations of a counter-controlled loop is known in advance.

- True
- False

Quiz Score: 100 out of 100