

Take the Quiz Again

Attempt History

	Attempt	Time	Score
KEPT	Attempt 3	10 minutes	14 out of 15
LATEST	Attempt 3	10 minutes	14 out of 15
	Attempt 2	11 minutes	14 out of 15
	Attempt 1	13 minutes	14 out of 15

ⓘ Correct answers are hidden.

Submitted Jul 21 at 10:22pm



Question 11.5 / 1.5 pts

Match each item with the correct loop form below.

Indefinite limit loop that reduces its input	<code>while (n != 0) { n /= 2; }</code> ▾
Indefinite limit loop that uses successive approximations	<code>while(abs(g1 – g2) >= EPSILO</code> ▾
Counter-controlled symmetric loop for producing a sequence of data	<code>for (int i=12; i <= 19; i++) { . . }</code> ▾
Indefinite data loop that uses raw input	<code>while(cin.get(ch)) { . . }</code> ▾
Counter-controlled asymmetric loop for processing characters	<code>for (size_t i=0, len=s.size(); i < l</code> ▾
Iterator loop that may change its container	<code>for (auto& e : col) { . . }</code> ▾
Iterator loop that cannot change its container	<code>for (auto e : col) { . . }</code> ▾
Counter-controlled loop for processing substrings	<code>for (size_t i=4, slen=4, len=s.siz</code> ▾
Indefinite data loop that uses formatted input	<code>while(cin >> n) { . . }</code> ▾

Question 21 / 1 pts

What happens when this code fragment runs?

```
istringstream in("12");
int n;
in >> n;
```

☐ It sets an error state in in.

☐ It throws a runtime exception

☒ n is set to 12

☐ It compiles, but fails to link

☐ It does not compile.

☐ None of these

Question 31 / 1 pts

After writing data to an `ostringstream` object named `os`, you can retrieve the `string` it contains by using:

☐ None of these

☐ `os.to_string()`

☒ `os.str()`

☐ `to_string(os)`

☐ `static_cast<string>(os);`

Question 41.5 / 1.5 pts



Which of the following loop patterns are used here?

```
int upper = 0;
char ch;
while (in.get(ch))
{
    if (ch >= 'A' && ch <= 'Z')
        upper++;
}
```

☒ data loop

☐ iterator or range loop

☐ loop-and-a-half

☐ counter-controlled loop

☐ sentinel loop

☒ inline test

☐ limit loop

☐ primed loop

Question 50.5 / 0.5 pts

In the **loop-and-a-half**, you use a break statement to exit the loop when the sentinel is found.

☒ True

☐ False

Question 60.5 / 0.5 pts

A loop that reads data until the input stream signals that it is done is called a sentinel loop.

☐ True

☒ False

Question 70.5 / 0.5 pts

A loop that reads data until some special value is found is called a data loop.

☐ True

☒ False

Question 81.5 / 1.5 pts

Match each item with the correct standard header below.

Read and write characters to memory using streams	<div>sstream</div>
Connect a disk file to an input or output stream.	<div>fstream</div>
Use the predefined stream objects cin and cout	<div>iostream</div>
Determine the category of a character	<div>cctype</div>
Modify the way that memory is converted to characters on input or output	<div>iomanip</div>

Question 91 / 1 pts

What happens when this code fragment runs in C++ 11?

```
cout << stoi("one") << endl;
```

☐ It does not compile.

☐ None of these

☐ It sets an error state in cout.

☐ stoi() returns 0

☐ It compiles, but fails to link

☒ It throws a runtime exception

Question 101 / 1 pts

What happens when this code fragment runs?

cout << stoi("12") << endl;

☐ It throws a runtime exception

☐ It does not compile.

☐ It compiles, but fails to link

☐ None of these

☐ It sets an error state in cout.

☒ stoi() returns 12



Incorrect

Question 110 / 1 pts

What happens with the following section of code?

```
cout << "Enter 1, 2 or 3: ";
int n;
cin >> n;
if n == 1
    cout << "You entered 1" << endl;
elif n == 2
    cout << "You entered 2" << endl;
elif n == 3
    cout << "You entered 3" << endl;
else
    cout << "Invalid value" << endl;
endif
```

☐ Does not compile

☐ Compiles and prints the correct value entered by the user.

☐ Compiles, but only prints "Invalid value"

☒ Compiles, but always print "You entered 1"

Question 120.5 / 0.5 pts

The directives #if defined(symbol) and #ifdef symbol mean, essentially, the same thing.

☒ True

☐ False

Question 130.5 / 0.5 pts

The predefined constant __cplusplus indicates which version of the C++ standard is being used.

☒ True

☐ False

Question 140.5 / 0.5 pts

Variables tested with the #if preprocessor directive are created using #define.

☒ True

☐ False

Question 151 / 1 pts

What happens when you execute the (erroneous) line:

bool ok = 2 + 2 == 5;

☐ The program prints an error message and the program continues

☐ An exception is thrown because 2 + 2 does not equal 5

☐ The program prints an error message and terminates

☒ Nothing happens. The variable ok is set to false.

☐ The code does not compile, since 2 + 2 is not equal to 5

Question 161 / 1 pts

Assume that you have the following code:

```
istreamstring in("one");
int n;
```

Which of these (erroneous) statements cause the program to terminate?

☐ cout << sqrt(-1);

☐ in >> n;

☒ cout << stoi("one");

☒ assert(2 + 2 == 5);

Question 170.5 / 0.5 pts

The standard library version of sqrt(-2) throws a runtime exception because there is no possible answer.

☐ True

☒ False