## Midterm 3 Study Guide

Due No due date Points 25 Questions 25 Time Limit 30 Minutes Allowed Attempts Unlimited

Take the Quiz Again

## Attempt History

	Attempt	Time	Score
KEPT	Attempt 24	15 minutes	25 out of 25
LATEST	Attempt 25	18 minutes	24 out of 25
	Attempt 24	15 minutes	25 out of 25
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	Attempt 22	24 minutes	24 out of 25
	Attempt 21	18 minutes	24 out of 25
	Attempt 20	30 minutes	19 out of 25
	Attempt 19	20 minutes	23 out of 25
	Attempt 18	30 minutes	21 out of 25
	Attempt 17	30 minutes	23.5 out of 25
	Attempt 16	30 minutes	24 out of 25
	Attempt 15	30 minutes	21 out of 25
	Attempt 14	30 minutes	23 out of 25
	Attempt 13	24 minutes	22 out of 25
	Attempt 12	16 minutes	24 out of 25
	Attempt 11	17 minutes	19 out of 25
	Attempt 10	17 minutes	22 out of 25
•	Attempt 9	20 minutes	20 out of 25
	Attempt 8	21 minutes	20 out of 25
	Attempt 7	25 minutes	21.5 out of 25
	Attempt 6	25 minutes	21 out of 25
	Attempt 5	30 minutes	17 out of 25
	Attempt 4	21 minutes	23 out of 25
	Attempt 3	26 minutes	19.89 out of 25
	Attempt 2	30 minutes	22.5 out of 25
	Attempt 1	27 minutes	21 out of 25

① Correct answers are hidden.

Submitted Jul 20 at 1:02pm

Question 1	1 / 1 pts
If no exception is thrown in a try block, all catch blocks associated with that try block are ignored.	
True	
○ False	

Question 2		1 / 1 pts
Match each item with the correct loop form below.		
Indefinite limit loop that reduces its input	while (n != 0) { n /= 2; }	
Indefinite limit loop that uses successive approximations	while(abs(g1 - g2) >= EPSILOf $\vee$	
Counter-controlled symmetric loop for producing a sequence of data	for (int i=12; i <= 19; i++) {} v	
Indefinite data loop that uses raw input	while(cin.get(ch)) {}	
Counter-controlled asymmetric loop for processing characters	for (size_t i=0, len=s.size(); i < I v	
Iterator loop that may change its container	for (auto& e : col) {}	
Iterator loop that cannot change its container	for (auto e : col) {}	
Counter-controlled loop for processing substrings	for (size_t i=4, slen=4, len=s.siz v	
Indefinite data loop that uses formatted input	while(cin >> n) {}	

Question 3 1/1 pts

Assume the vector v contains [1, 2, 3]. v.erase(v.begin()); changes v to [2, 3].

```
True

False
```

Question 17	1 / 1 pts
The statement v.insert(v.begin(), 3) inserts the element 3 into the vector v, overwriting the exiting element at index 0.	
O True	
False	

```
Question 18
1/1 pts

Examine this version of the swap() function. How do you call it?

void swap(int * x, int & y)
{
    . . .
}
    . . .
int a = 3, b = 7;
// What goes here?

Swap(&a, &b);

None of these

swap(a, b);

swap(a, b);

swap(a, b);

swap(a, b);
```



Which array definition is illegal (even if it may compile on some compilers)?

int SIZE = 3;
int al[SIZE];
int a2[3];
int a3[3]{};
int a4[] = {1, 2, 3};
int a5[3] = {1, 2};

a

None of these

a3

a2

a5

Question 21	1 / 1 pts
What is the equivalent array notation?	
<pre>int dates[10]; cout &lt;&lt; (*dates) + 2 &lt;&lt; endl;</pre>	
O dates[0] + 4	
O dates[2]	
<pre>@ dates[0] + 2</pre>	
O &dates[2]	
O dates[2] + 2	

O True

False

**Question 23** 

Examine the following code. What is stored in  $\boldsymbol{b}$  after it runs.

```
int f(int * p, int x)
{
   *p = x * 2;
   return x / 2;
}
. . .
int a = 3, b, c;
c = f(&b, a);
```

Does not compile

6

O 3

O 2

0 1

**Question 24** 

The value for the variable *a* is stored:

```
int a = 1;
void f(int b)
  int c = 3;
   static int d = 4;
}
```

in the static storage area

O on the heap

O on the stack

O in the CPU machine registers

The example does not provide enough information

Which returns the last pixel on the first row of this image?

```
Pixel *p; // address of pixel data
int w, h; // width and height of image
```

None of these are correct

○ \*p[w - 1]

Question 25

p[w - 1] O p[w] - 1

O p + w - 1

1 / 1 pts

1 / 1 pts

1 / 1 pts