Name:								

CS124 Unit 3 Practice Test

Problem	Question	Choice	s	Answer
1	To create an input or output file stream,	a)	# include <iostream></iostream>	В
	which header file must you include?	b)	#include <fstream></fstream>	
		c)	#include <iomanip></iomanip>	
		d)	#include <cassert></cassert>	
2	How do you open a file stream to write to a	a)	Ifstream f("data.txt");	В
	file called "data.txt"?	b)	ofstream f("data.txt");	
		c)	fin f("data.txt");	
		d)	fout f("data.txt");	
3	What is the best loop to use to read each	a)	while loop	Α
	word in a file?	b)	do while loop	
		c)	for loop	
		d)	random loop	
4	Which of the following will read a single	a)	fileIn.read(x);	С
	word from a file using a stream called	b)	fileIn.write(x);	
	"fileIn"?	c)	fileIn >> x;	
		d)	fileIn << x;	
5	Which function can be called to check if a	a)	fail()	А
	file does not exist?	b)	close()	
		c)	error()	
		d)	clear()	
6	When reading a file using a stream called	a)	fin << text	D
	"fin", what boolean condition would you	b)	!fin >> text	
	use to read one word at a time into a	c)	text != 0	
	variable text:	d)	fin >> text	
	while (??)			
	{			
	// Do something with the variable text			
	}			
7	Which of the following will result in a	a)	int data[5];	В
	compiler error?	b)	int data[];	
		c)	int data[] = {1, 2, 3, 4, 5};	
		d)	int data[5] = {1, 2, 3, 4, 5};	
8	Which statement will set the second	a)	data[2] = 14;	С
	element of an integer array of size 10?	b)	data + 2 = 14;	
		c)	data[1] = 14;	
		d)	data + 1 =14;	
9	What is the best loop to traverse an array of	a)	while loop	С
	doubles?	b)	do while loop	
		c)	for loop	
		d)	random loop	

Problem	Question	Choice	s	Answer
10	Which of the following is <u>not</u> a true	a)	You can print out an entire character	D
	statement about character arrays?		array using cout.	
		b)	You can read in an entire character	
			array using cin.	
		c)	Compiler will add a NULL character at	
			the end of text.	
		d)	You can compare two char arrays using	
			==	
11	What is the maximum length of a word that	a)	254	В
	can fit into char word[256]?	b)	255	
		c)	256	
		d)	257	
12	What while loop would you most likely use	a)	while (data)	В
	to traverse char data[100]?	b)	while (data[i] != 0)	
		c)	while (data[i] == 0)	
		d)	while (!data)	
13	Which of the following statements is false?	a)	Passing an array of integers does not	Α
			require an array size parameter.	
		b)	Passing an array of characters does not	
			require an array size parameter.	
		c)	Passing an array is done by reference.	
		d)	When passing an array, the address to	
			the first element of the array is passed	
			to the function.	
14	How do you declare an array of 20 words	a)	char[20] data[40];	D
	where each word is no more than 40	b)	char[40] data[20];	
	characters long (including the NULL	c)	char data[40][20];	
	character)?	d)	char data[20][40];	
15	What function declaration would be used to	a)	void process(int data[][5], int size)	Α
	receive an array of 10 where each element	b)	void process(int data[][], int size)	
	has an array of 5 integers within it?	c)	void process(int data[10][5], int size)	
		d)	void process(int data[][10], int size)	
16	What is wrong with this code?	a)	Wrong type of loop is used to traverse	С
			the array	
	int data[5] = {1, 1, 2, 3, 5};	b)	Incorrect initialization of the data array	
	for (int i=1; i<=5; i++)	c)	Array accessed out of bounds	
	{	d)	Will not compile	
	cout << data[i] << " ";			
4.7	If you have an age of 50	,	-1-1-[3][40]	6
17	If you have an array of 50 words where	a)	data[3][10]	С
	each word is no more than 20 characters	p)	data[10][3]	
	long (including the NULL character), how	c)	data[9][2]	
	would you access the 3 rd character of the	d)	data[2][9]	
10	10 th word?	-1	*	D
18	How would you obtain the address of a variable x?	a)	*X	В
	variable x:	p)	&x v*	
		c)	X*	
		d)	^х	

	/hat is the output of this code?	,		
in	vilat is the output of this code:	a)	0	Α
in		b)	17	
1	nt x = 17;	c)	18	
in	nt y = 18;	d)	1	
in	nt *xPtr = &x			
in	nt *yPtr = &y			
*×	xPtr = *yPtr – y;			
cc	out << x;			
20 If	you have the following code:	a)	*ptr = value;	Α
		b)	ptr = &value	
	nt *ptr = 0;	c)	ptr++;	
in	nt value = 5;	d)	value;	
	which of the following will create a			
	egmentation fault?	۵۱	0	-
21 W	/hat is the output of the following code:	a) b)	9	С
:_	nt data[6] = {9, 7, 5, 3, 1, -1};	b) c)	7 5	
	out << *(data + 2);		3	
				В
	Which of the following statements is true		x[i] is the same as *x+i	B
	bout the relationship between arrays and	p)	x[i] is the same as *(x+i)	
pc	ointers?	c)	x[i] is the same as &x+i	
23 W	then traversing a char array using a		x[i] is the same as &(x+i)	D
	/hen traversing a char array using a	a)	!pos	D D
-	ointer, what boolean condition would you	p)	pos == 0	
ρι	ut in the loop?	c)	pos > 0	
a h	har text[] = "Unit Test 3";	d)	*pos != 0	
				
	har *pos = text; hile (??)			
	Time (!!)			
{	cout << *nos:			
	cout << *pos;			
1	pos++;			
24 W	/hat is the output of the following code:	a)	1	Α
24 VV	what is the output of the following code.	a) b)	-1	^
in	nt x = 1;	•	Random address value	
	•	c) d)	Compiler Error	
	nt y = -1;	u)	Compiler Error	
	nt *ptr;			
_	(x > y)			
{	ntr = 0			
	ptr = &x			
	lse			
l en	15C			
1	ptr = &y			
	μιι – α γ,			
} cc	out << *ptr;			
	the length of an array is stored in a	a)	*(array + size)	В
	ariable called "size", which of the following	b)	*(array + size – 1)	
	ould give you the value of the last	c)	*(array + size + 1)	
	lement of the array?	d)	*array + size	

Problem	Question	Choice	s	Answer
26	For the following code:	a)	int *x = &x	С
		b)	float *y = &x	
	int x = 5;	c)	int *z = &x	
		d)	char *w = &x	
	which of the following would not result in a			
	compiler error?			
27	For the following character array:	a)	school	D
		b)	*school+2	
	char school[10] = "BYU-I";	c)	*(school+2)	
		d)	school+2	
	what is the address of the letter 'U'?			
28	If the variable "selection" is equal to 2, then	a)	abcd	С
	what would the output of the following	b)	b	
	code be:	c)	bc	
		d)	bcd	
	switch(selection)			
	{			
	case 0:			
	case 1:			
	cout << "a";			
	break;			
	case 2:			
	cout << "b";			
	case 3:			
	cout << "c";			
	break;			
	default:			
	cout << "d";			
	}			
29	Which of the following is true about case	a)	Case labels can contain variables	В
	labels within a switch statement?	b)	Case labels can be a single character	
		c)		
		d)	Case labels can define a range using a	
			comma	
30	Which statement is equivalent to:		y = (x > 5) ? 2 * x : 3 * x;	Α
		_	y = (x > 5) ? 3 * x : 2 * x;	
	If (x > 5)	-	y = (x > 5) : 2 * x ? 3 * x;	
	[{	d)	y = (x > 5) : 3 * x ? 2 * x;	
	y = 2 * x;			
	}			
	else			
	[{			
	y = 3 *x;			
	}			