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<u>Instructions</u>: This is a closed book and closed note test. Please write your answer (A, B, C, D, or E) clearly in the Answer column. When you are done, complete the quiz in I-Learn. After you submit your test, you can retake the quiz a second time to correct errors made. Your highest grade between the two attempts will be recorded. You must turn in the paper exam afterwards. Please ensure your name is written on the top.

Problem	Question	Choice	s	Answer
1	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");	
		e)	fileOut("data.txt");	
2	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	
		e)	You can't read individual words in a file	
3	Which of the following will read a single	a)	fileIn.read(x);	E
	word into a variable called "x" from a file	b)	fileIn.write(x);	
	using a stream called "fileIn"?	c)	fileIn << x;	
		d)	fileIn(x);	
		e)	fileIn >> x;	
4	Which function can be called to check if a	a)	fail()	Α
	file does not exist?	b)	close()	
		c)	error()	
		d)	clear()	
		e)	check()	
5	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	
		e)	text == '\0'	
	while ( ?? )			
	{			
	// Do something with the variable text			
	}			
6	Which of the following variable declarations	a)	int data[5];	В
	will result in a compiler error?	b)	int data[];	
		c)	int data[] = {1, 2, 3, 4, 5};	
		d)	int data[5] = {1, 2, 3, 4, 5};	
ı		e)	int data[5] = {};	

Problem	Question	Choices	Answer
7	Which statement will set the second	a) data[2] = 14;	С
	element of an integer array of size 10 to the	b) data + 2 = 14;	
	value of 14?	c) data[1] = 14;	
		d) data + 1 =14;	
		e) data[14] = 1;	
8	What is the best loop to traverse an array of	a) while loop	E
	doubles?	b) do while loop	
		c) assert loop	
		d) random loop	
		e) for loop	
9	Which of the following is <u>not</u> a true statement about character arrays?	a) You can print out a character array using cout.	D
		b) You can set a character array using cin.	
		<ul> <li>c) Compiler will add a NULL character at the end of text.</li> </ul>	
		<ul><li>d) You can compare two char arrays using</li></ul>	
		e) A character array is passed to a	
		function by reference.	
10	What is the maximum length of a word that	a) 254	В
	can fit into char word[256]?	b) 255	
		c) 256	
		d) 257	
		e) 258	
11	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)	
		e) while (data[0] == '\0')	
12	Which of the following statements is <u>false</u> ?	a) Passing an array of characters does not	E
		require an array size parameter.	
		b) Passing an array is done by reference.	
		c) When passing an array, the address to	
		the first element of the array is passed	
		to the function.	
		d) Passing an array of character arrays	
		requires an array size parameter.	
		e) Passing an array of integers does not	
		require an array size parameter.	
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Problem	Question	Choice	s	Answer
13	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];	
		e)	char data[][20];	
14	What function declaration would be used to	a)	void process(char data[][5])	Α
	receive an array of 10 words where each	b)	void process(char data[][])	
	word has up to 5 characters (including the	c)	void process(char data[10][5])	
	NULL character) within it?	d)	void process(char data[][10])	
		e)	void process(char data[10][])	
15	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] << " ";	e)	The variable data[i] is not accessible	
	}		inside the for loop	
4.6	If a base of 50 and base		1.1.10114.01	
16	If you have an array of 50 words where	a)	data[3][10]	С
	each word is no more than 20 characters	b)	data[10][3]	
	long (including the NULL character), how	c)	data[9][2]	
	would you access the 3 <sup>rd</sup> character of the	d)	data[2][9]	
	10 <sup>th</sup> word?	e)	data[3][9]	
17	How would you obtain the address of a	a)	*x	В
	variable x?	b)	&x	
		c)	x*	
		d)	^X	
		e)	*(&x)	
18	What is the output of this code?	a)	0	Α
	'	b)	17	
	int x = 17;	c)	18	
	int y = 18;	d)	1	
	int *xPtr = &x		-1	
	int *yPtr = &y	-,		
	*xPtr = *yPtr – y;			
	cout << x;			
	.,			
19	If you have the following code:	a)	*ptr = value;	Α
		b)	ptr = &value	
	int *ptr = 0;	c)	ptr++;	
	int value = 5;	d)	value;	
		e)	value++;	
	which of the following will create a			
	segmentation fault?			

Problem	Question	Choices	Answer
20	What is the output of the following code:	a) 9	С
		b) 7	
	int data[6] = {9, 7, 5, 3, 1, -1};	c) 5	
	cout << *(data + 2);	d) 3	
		e) 1	
21	Which of the following statements is true	a) x[i] is the same as *x+i	E
	about the relationship between arrays and	b) x[i] is the same as &x+i	
	pointers?	c) x[i] is the same as &(x+i)	
		d) x[i] is the same as x+i	
		e) x[i] is the same as *(x+i)	
22	When traversing a char array using a	a) !pos	D
	pointer, what boolean condition would you	b) pos == '\0'	
	put in the loop?	c) pos > '\0'	
	par in the loop!	d) *pos!= '\0'	
	char text[20] = "Unit Test 3";	e) pos < '\0'	
	char *pos = text;	ζ, μου τ το	
	while ( ?? )		
	{		
	cout << *pos;		
	pos++;		
	1		
	I .		
23	What is the output of the following code:	a) 10	Α
	·	b) -10	
	int x = 10;	c) 0	
	int y = -10;	d) Random address value	
	int *ptr;	e) Compiler Error	
	if (x > y)		
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	ptr = &x		
	}		
	else		
	{		
	ptr = &y		
	}		
	cout << *ptr;		
24	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 <u>not</u> result in a	e) bool *b = &x	
	compiler error?		

Problem	Question	Choices	Answer
25	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 memory address of the letter 'U'?	e) &school + 2	