Problem	Question	Choices	Answer
1	To create an input or output file stream, which	a) # include <iostream></iostream>	
	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 file	a) Ifstream f("data.txt");	
	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 word in	a) while loop	
	a file?	b) do while loop	
		c) for loop	
		d) random loop	
		dy random loop	
4	Which of the following will read a single word	a) fileIn.read(x);	
	from a file using a stream called "fileIn"?	b) fileIn.write(x);	
	· ·	c) fileIn >> x;	
		d) fileIn << x;	
		,	
5	Which function can be called to check if a file does	a) fail()	
	not exist?	b) close()	
		c) error()	
		d) clear()	
6	When reading a file using a stream called "fin",	a) fin << text	
U	what boolean condition would you use to read	b) !fin >> text	
	one word at a time into a variable text:	· ·	
	one word at a time into a variable text.	c) text!=0	
	h:la / <2225 \	d) fin >> text	
	while ( ?? )		
	( Paramathina with the wariable tout		
	// Do something with the variable text		
	}		
7	Which of the following will result in a compiler	a) int data[5];	
	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 element of	a) data[2] = 14;	
	an integer array of size 10?	b) data + 2 = 14;	
		c) data[1] = 14;	
		d) data + 1 =14;	

Problem Question		Choices	
9	What is the best loop to traverse an array of doubles?	<ul><li>a) while loop</li><li>b) do while loop</li><li>c) for loop</li><li>d) random loop</li></ul>	
10	Which of the following is <u>not</u> a true statement about character arrays?	<ul> <li>a) You can print out an entire character array using cout.</li> <li>b) You can read in an entire character array using cin.</li> <li>c) Compiler will add a NULL character at the end of text.</li> <li>d) You can compare two char arrays using ==</li> </ul>	
11	What is the maximum length of a word that can fit into char word[256]?	a) 254 b) 255 c) 256 d) 257	
12	What while loop would you most likely use to traverse char data[100]?	a) while (data) b) while (data[i] != 0) c) while (data[i] == 0) d) while (!data)	
13	Which of the following statements is false?	<ul> <li>a) Passing an array of integers does not require an array size parameter.</li> <li>b) Passing an array of characters does not require an array size parameter.</li> <li>c) Passing an array is done by reference.</li> <li>d) When passing an array, the address to the first element of the array is passed to the function.</li> </ul>	
14	How do you declare an array of 20 words where each word is no more than 40 characters long (including the NULL character)?	a) char[20] data[40]; b) char[40] data[20]; c) char data[40][20]; d) char data[20][40];	
15	What function declaration would be used to receive an array of 10 where each element has an array of 5 integers within it?	<ul> <li>a) void process(int data[][5], int size)</li> <li>b) void process(int data[][], int size)</li> <li>c) void process(int data[10][5], int size)</li> <li>d) void process(int data[][10], int size)</li> </ul>	

Problem	Question	Choices	Answer
16	What is wrong with this code?	a) Wrong type of loop is used to	
		traverse the array	
	int data[5] = {1, 1, 2, 3, 5};	b) Incorrect initialization of the data	
	for (int i=1; i<=5; i++)	array	
	{	c) Array accessed out of bounds	
	cout << data[i] << " ";	d) Will not compile	
	}		
17	If you have an array of 50 words where each word	a) data[3][10]	
	is no more than 20 characters long (including the	b) data[10][3]	
	NULL character), how would you access the 3 <sup>rd</sup>	c) data[9][2]	
	character of the 10 <sup>th</sup> word?	d) data[2][9]	
		,	
18	How would you obtain the address of a variable x?	a) *x	
		b) &x	
		c) x*	
		d) ^x	
19	What is the output of this code?	a) 0	
		b) 17	
	int x = 17;	c) 18	
	int y = 18;	d) 1	
	int *xPtr = &x		
	int *yPtr = &y		
	*xPtr = *yPtr - y;		
	cout << x;		
20	If you have the following code:	a) *ptr = value;	
	,	b) ptr = &value	
	int *ptr = 0;	c) ptr++;	
	int value = 5;	d) value;	
	which of the following will create a segmentation		
	fault?		
21	What is the output of the following code:	a) 9	
	Time is the output of the following code.	b) 7	
	int data[6] = {9, 7, 5, 3, 1, -1};	c) 5	
	cout << *(data + 2);	d) 3	
	(555)		
22	Which of the following statements is true about	a) x[i] is the same as *x+i	
	the relationship between arrays and pointers?	b) x[i] is the same as *(x+i)	
		c) x[i] is the same as &x+i	
		d) x[i] is the same as &(x+i)	

Problem	Question	Choices	Answer	
23	When traversing a char array using a pointer, what boolean condition would you put in the loop?  char text[] = "Unit Test 3"; char *pos = text; while ( ?? ) {    cout << *pos;    pos++; }	a) !pos b) pos == 0 c) pos > 0 d) *pos != 0		
24	<pre>What is the output of the following code:  int x = 1; int y = -1; int *ptr; if (x &gt; y) {    ptr = &amp;x } else {    ptr = &amp;y } cout &lt;&lt; *ptr;</pre>	a) 1 b) -1 c) Random address value d) Compiler Error		
25	If the length of an array is stored in a variable called "size", which of the following would give you the value of the last element of the array?	a) *(array + size) b) *(array + size - 1) c) *(array + size + 1) d) *array + size		
26	For the following code:  int x = 5;  which of the following would not result in a compiler error?	<ul> <li>a) int *x = &amp;x</li> <li>b) float *y = &amp;x</li> <li>c) int *z = &amp;x</li> <li>d) char *w = &amp;x</li> </ul>		
27	For the following character array:  char school[10] = "BYU-I";  what is the address of the letter 'U'?	a) school b) *school+2 c) *(school+2) d) school+2		

Problem	Question	Choice	Choices		
28	If the variable "selection" is equal to 2, then what	a)	abcd		
	would the output of the following code be:	b)			
		-	bc		
	switch(selection)	d)	bcd		
	{				
	case 0:				
	case 1:				
	cout << "a";				
	break;				
	case 2:				
	cout << "b";				
	case 3:				
	cout << "c";				
	break; default:				
	cout << "d";				
	Courter u ,				
	ı				
29	Which of the following is true about case labels	a)	Case labels can contain variables		
	within a switch statement?	b)	Case labels can be a single		
			character		
		,	Case labels can be floats		
		d)	Case labels can define a range using		
			a comma		
30	Which statement is equivalent to:	a)	y = (x > 5) ? 2 * x : 3 * x;		
		b)	y = (x > 5) ? 3 * x : 2 * x;		
	If $(x > 5)$	c)	y = (x > 5) : 2 * x ? 3 * x;		
	{	d)	y = (x > 5) : 3 * x ? 2 * x;		
	y = 2 * x;				
	}				
	else				
	{				
	y = 3 *x;				
	}				