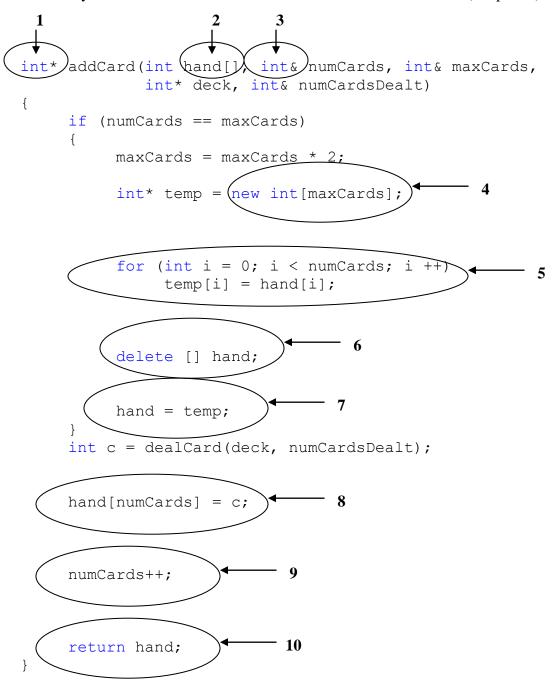
CS 233 G – Midterm 1 50 points

Part I: Match each of the vocabulary words at the right with the BEST definition on the left. (1 point each)

 _ 1.	A contiguous block of memory used to hold a set of data of the same type.	a.	&
 _ 2.	A C-style string is implemented as this.	b.	2 D Array
 _ 3.	A named memory location used to store data during program execution.	c.	address
 _ 4.	A variable that contains an address.	d.	Array
 _ 5.	An example of a selection statement.	e.	Array of chars
 _ 6.	Assume int hand[5]; hand is one of these.	f.	Call
 _ 7.	Assume int hand[5]; hand[0] is one of these.	g.	Definition
 _ 8.	Can be used to store a set of data that is "tabular" in nature.	h.	Delete
 9.	Control structure that allows your program to branch or make choices.	i.	for
 _ 10.	Control structure that executes code 0 to many times.	j.	Heap
 _ 11.	Describes exactly how a function will do its work.	k.	if
 12.	Got a memory leak? You must have forgotten to use this.	1.	Int *
 _ 13.	Need more than one value returned from a function? Use this parameter	m.	New
	passing mechanism.	n.	Parameter
 _ 14.	Provides the compiler with the signature of a function.	о.	Pass by
 _ 15.	Statements in a program are executed in order.		reference
 _ 16.	The area of a program in which a variable is known and can be used.	p.	Pass by value
 _ 17.	The area of memory in which dynamically allocated variables are stored.	q.	Pointer
 _ 18.	The default parameter passing mechanism in C++.	r.	Prototype
 _ 19.	The first array index value in C++.	s.	Repetition
 _ 20.	The first line of this kind of repetition statement has 3 distinct parts.	t.	Scope
 21.	The term used for a piece of data that a function needs to do its work.	u.	Selection
 _22.	This symbol specifies that a parameter is being passed by reference.	v.	Sequence
 _23.	Use one of these to execute a function.	w.	value
 _24.	Use this data type to represent a pointer to an integer.	х.	Variable
 _ 25.	Use this operator to dynamically allocate memory.	y.	Zero

Part II: Answer each of the following questions.

1. Briefly describe each of the 10 numbered sections of code below. (20 points)



- 2. A local zoo wants to keep track of how many pints of food each of its 3 monkeys eats each day during a typical week. Write a program that allows the user to enter the information for all 3 monkeys at the end of the week (only positive integer entries are allowed), stores this information in a reasonable data structure, calculates and displays:
 - The least amount of food eaten during the week by any one monkey
 - The total food eaten on each day for the group of monkeys
 - The average amount of food eaten per day by the group of monkeys

Write this program using a class with a member variable (or variables) for storing the data and member functions for returning the calculated values. All I/O should be done in your program's main. (30 points)