CS2050 – C Programming Quiz 2 Fall 2016

Fill out the answer sheet with your choices and turn the quiz in. DO NOT PUT YOUR ANSWERS ON THIS SHEET – RECORD THEM ON THE ANSWER SHEET ONLY. Assume a character = 1 byte, int = 4 bytes.

1. #include <stdio.h>
2. typedef struct \_student{
3. char name[50];
4. int mark;
5. } student;
6. void print\_list(student list[], int size);
7. void read\_list(student list[], int size);
8. void main() {
9. printf(“%d”, sizeof( student ) );
10. const int size = 3;
11. student list[size];
12. read\_list(list,size);
13. print\_list(list,size);
14. }
15. void read\_list(student list[], int size) {
16. printf("Please enter the student information:\n");
17. int i = 0;
18. for(i = 0; i < size;i++){
19. printf("\nname:");
20. scanf("%s",list[i].name);
21. printf("\nmark:");
22. scanf("%d",&list[i].mark);
23. }
24. }
25. void print\_list(student list[], int size){
26. printf("Students' information:\n");
27. int i = 0;
28. for(i = 0; i < size;i++){
29. printf("\nname: %s, mark: %d",list[i].name,list[i].mark);
30. }
31. }
32. (1 point) How many functions are in the code above?
33. (1 point) At which line of code above is memory allocated for the structure?
34. (1 point) Using the assumptions in question one, how much space will “list” require?
35. (1 point) Which line of code creates a pointer?
36. (1 point) How many student records will be processed by the program above?
37. ( 1 point) What will the printf() on line “j” display?
38. (1 point) T / F A structure can contain an instance of itself.
39. (1 point) T / F Structure definitions do not reserve any space in memory.
40. (1 point) T / F When structures or individual structure members are passed to a function, they are passed by value.
41. (1 point) If rand() returns 94, what will this print? printf(“%d”, 2 + (rand() %9));

CS2050 – C Programming Quiz 2 NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fall 2016 LAB \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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