

“Blackjack” Program Details (5 min + 5 min)

Name _____

Please answer the following multiple choices questions. There could be different answers to on question depending on different ways of implementation. Please choose any one you think right and be prepared for reasoning your choices.

1. Which function is the default entrance for a C program?
a. *printf()* b. *scanf()* **c. *main()*** d. *output()* e. *input()*
2. Which C function can you use in your program for writing the output on the screen?
a. *printf()* b. *scanf()* c. *main()* d. *output()* e. *input()*
3. Which C function can you use in your program for getting the input from the user?
a. *printf()* **b. *scanf()*** c. *main()* d. *output()* e. *input()*
4. Which is the program comment in C?
a. # ... **b. /* ... */** c. //... d. */ ... /*
5. a and b are two integers, $a \geq 0$, $b >= 0$, what is the range of $a \% b$?
a. [0~b] b. [0~a] c. [1~b] d. [1~a] **e. [0~b-1]** f. [1~b-1]
6. Which is the format specifier for integer variables when using the *printf()/scanf()* function?
a. *%f* b. *%i* c. *%s* d. *%c* **e. *%d***

Understand the “Blackjack” game

Name _____

Please read assignment1 section3, and answer one of the following questions.

1. What is the input of the “Blackjack” game?
Player’s choices on having another card or not.

2. What is the output of the “Blackjack” game?
 - a. *welcome messages*
 - b. *messages with the values for the random cards for both the player and the dealer*
 - c. *messages with the values for the combined cards values for both the player and the dealer*

3. Which type of file do you need to write as the C program for the “Blackjack” game?
Which type of file can you run as the real program on the ladera server? Are these files the same? If not, what is the relationship between the two files?
.c file is the source code file that we will write. The file that can run on the ladera server is executable file. We need to use the compiler to translate .c file into the executable one.

4. Please describe what do you need to define a function in C.
How many functions will you use to implement the “Blackjack” game?
Return value, function name, function parameter list, function body.
Please think about the different between function definition and function declaration.

5. What type of variables will you use for the “Blackjack” game? (choose all that apply)
a. int **b. unsigned int** c. float d. double e. char
 - a. The random generated number _____.
 - b. User’s input choice _____.
 - c. The total value of the cards _____.

6. Which type of control flow do you want to use to allow the player to play the game? (choose all that apply below) Why? What will the condition look like?
a. *if-else* **b. for** **c. while** d. *switch* **e. do-while** f. *break and continue*

7. Which type of control flow do you want to use to stop the player? (choose all that apply below) Why? What will the condition look like for the termination?
a. if-else b. *for* c. *while* d. *switch* e. *do-while* **f. break and continue**

8. Which type of control flow do you want to use to for the dealer? (choose all that apply below) Why? How would you use the control flow you choose?
a. *if-else* **b. for** **c. while** d. *switch* **e. do-while** f. *break and continue*