CCA - 1 - Div C, Nov 2, 2022
Time: 130p - 215p

------ Solve all 4 pbs ----

1. Given the following code snippet -
        int x = -10;
        1. Declare 2 int pointer variables named pX1 and pX2
        2. Make both pX1 and pX2 point to x
        3. Use pX1, add (+10) to x
        4. Use pX2, add (-20) to x
        5. What would the value of x now?
    - [ ] Explain your answer in 2-3 sentences with a focus on pointers

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2. Omitting #include <stdio.h> and continuing to use printf()/scanf() and other stdio functions is not recommended in a C Program -
    - [ ] Write a paragraph supporting the above argument, 5-8 lines

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3. Write a code snippet that uses the ternary operator to evaluate the following condition -
    Age >= 65 should return 1 Age >= 18 should return 2, all else should return 3

- e.g
```
int age = xxxx;
int ageCode = (<<<<< YOUR ANSWER HERE >>>>>);
printf("Age = %d is Age Code = %d\n", age, ageCode)
```

- [ ] You can use multiple ternary expressions within the same statement

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4. Given the following C program -

```
                void funcA(int a)  {
            funcB(a);
         }

          void funcB(int b) {
             funcC(b);
         }

         void funcC(int c) {
             int l;

                  l = c;

             return;
         }
```

```c
        int main(void) {
    funcA(10);
}
```

If the debugger is stopped at the line "l = c;" inside funcC() -
- [ ] Draw the chain of call stacks.
- [ ] For every frame on the call stack, show the variable usage
- [ ] In 1 para, explain your understanding of the function calls mechanism in C