**Steps to submit:**

Please answer to all questions below and submit the document with all the answers in github (can be a .txt file)

**Deadline:** Sunday, Aug 29th, 23:59

1. Possible values set to store in 'char'

Answer: One char is worth one byte which is between -128 to 127.

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2. What will print the following code?

#include <stdio.h>

int main()

{

int a = 5;

while (a-- > 0) {

printf("%d\n", a);

}

return 0;

}

Answer: The code will print 43210.

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3. Can a C program be compiled or executed in the absence of a main()?

Answer: Yes, we can comply and execute the C program without main().  
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4. Can I declare the same variable name to the variables which have different

scopes?

void function1()

{

int variable = 0;

}

void function()

{

int variable = 5;

}

Answer: No, we cannot do such thing because if a block cannot contain variable that already exists elsewhere.  
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5. What will print the following code?

void increment(int\* i)

{

\*i = \*i + 1;

}

int main()

{

int count = 7;

increment(&count);

printf("%d\n", count);

return 0;

}  
Answer: The code will simply print “8”  
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6. What will print the following program?

#include <stdio.h>

int main()

{

int x = 5641;

if (x & 1) {

printf("Even\n");

} else {

printf("Odd\n");

}

return 0;

}

Answer: It will print “Even”  
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7. What will print the following program, if the sizeof(int) is equal 4?

int main()

{

int x[5];

printf("sizeof(int)=%ld, sizeof(x)=%ld", sizeof(int), sizeof(x));

return 0;

}  
Answer: “sizeof[int]=4 sizeof[x]= 20”  
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8. What will print the following program, if as array size '7' is provided?

int main()

{

int s = 0;

printf("Enter array size: ");

scanf("%d", &s);

int\* a = new int[s];

for (int i = 0; i < s; ++i) {

a[i] = i;

}

for (int i = 0; i < s; ++i) {

printf("%d\n", a[i]);

}

delete [] a;

return 0;

}

Answer: “ 0 1 2 3 4 5 6 “  
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9. What will print the following program?

struct point

{

int x;

int y;

};

int main()

{

struct point p = {4, 5};

printf("x=%d, y=%d\n", p.x, p.y);

return 0;

}  
Answer: x=4 , y=5  
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10. Can the union elements be of different sizes?

union data

{

char c;

int i;

};

Answer: Yes, union elements can be of different sizes