DFS Lab – Surprise Test

Name:
Roll Number:

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Select the correct o/p of the following programs (without execution) and state reasons:

1.
```
int sachin = 2, sourav = 6, dravid = 6;
sachin = sourav == dravid;
printf ("%d", sachin);
```
i) 0, ii) 1, iii) 2, iv) 6.

2.
```
int counter = 41;
for (counter--;counter--;counter--);
        printf ("%d",counter);
```
i) 0, ii) 1, iii) -1, iv) None.

3.
```
printf ("ISI" "MTech" "%d", printf ("to"));
```
i) ISI, ii) ISIMTech, iii) ISIMTech2, iv) toISIMTech2.

4.
```
int no = 2, *ptr = &no;
no *= 3;
printf ("%d", *ptr**ptr);
```
i) 36, ii) 6, iii) 4, iv) 12.

5.
```
int x = 3, y, z;
z = y = x;
z *= y = x*x;
printf ("%d %d %d", x, y, z);
```
i) 3 9 9, ii) 3 3 3, iii) 3 9 27, iv) None.

6.
```
printf ("%d",10++);
```
i) 1, ii) 10, iii) 11, iv) Error.

7.
```
#define triple(x) 3*x
...
int m = 6, n = 6;
m = m / triple(2);
n /= triple(2);
printf ("%d %d", m, n);
```
i) 1 1, ii) 4 1, iii) 1 4, iv) 4 4.

8.
```
int i = printf ("MTech") > printf ("ISI");
printf ("%d", i);
```
i) 1, ii) 0, iii) MTechISI1, iv) Error.

9.
```
for (;;)
        printf ("OK");
```
i) Error, ii) Warning & ∞ loop, iii) OK, iv) None.

10.
```
int a[ ]={-5, -3, -1, 1, 3, 5}, *b = &a[2];
printf ("%d", b["%d",a[2]]);
```
i) -3, ii) -3-1, iii) -1, iv) Error.

11.
```
int a[ ] = {10, 20, 30, 40, 50};
int *p1 = &a[1], *p2 = &a[4];
printf ("%d", (p2-p1));
```
i) 30, ii) 6, iii) 3, iv) 4.

12. printf (printf (“li”)+”mili”);
i) lili, ii) limili, iii) mili, iv) 2mili.

13. char *a = “yes””no””\0””ok”;
printf (“%s”, a);
i) yesnook, ii) yesno, iii) yes, iv) Error.

14. printf (“%c”, “don”[1]);
i) d, ii) o, iii) n, iv) odon.

15. void a = 10;
printf (“%d”, a);
i) Error, ii) 10, iii) 0, iv) None.

16. char ch = 291;
printf (“%d”, ch);
i) 291, ii) 127, iii) 35, iv) None.

17. printf (“%d”, sizeof (234L));
i) 2, ii) 4, iii) 8, iv) Compiler-fixed.

18. float problem = 0.8;
printf (“%0.8f”,problem);
i) 0.80000000, ii) 0.79999999, iii) 0.80000001, iv) None.

19. fprintf (stdout, “%i”, 48);
i) Error, ii) ‘0’, iii) 0, iv) 48.

20. printf("by""%d",printf("Two"));
i) by3Two, ii) byTwo, iii) Twoby3, iv) Error.