1.What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int a = 5;
    printf("%d", a++ * 2);
    return 0;
}
```

A. 12
B. 10
C. 11
D. Undefined behavior

2. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int a = 5;
    printf("%d", ++a + a++);
    return 0;
}
```

A. 11
B. 12
C. 13
D. Undefined behavior

3. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int a = 1, b = 2, c = 3;
    printf("%d", a < b < c);
    return 0;
}
```

A. 1
B. 0
C. 3
D. Compilation error

4. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int x = 5;
    int y = x << 1 + 1;
    printf("%d", y);
    return 0;
}
```

A. 10
B. 12
C. 20
D. 40

5. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int a = 10;
    printf("%d", a & a - 1);
    return 0;
}
```

A. 10
B. 1
C. 8
D. 9

6. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int a = 3;
    printf("%d", a | a << 1);
    return 0;
}
```

A. 3
B. 6
C. 7
D. 5

7. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int i = 0;
    printf("%d", ++i || i++);
    return 0;
}
```

A. 0
B. 1
C. 2
D. Undefined behavior

8. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int a = 5, b = 10;
    printf("%d", a ^= b ^= a ^= b);
    return 0;
}
```

A. 5
B. 10
C. Undefined behavior
D. 15

9. What will be the output of the following C program?

#include <stdio.h>

int main() {
   int a = 4;
   printf("%d", a << a);
   return 0;
}

A. 8
B. 64
C. 16
D. Undefined behavior

10. What will be the output of the following C program?

#include <stdio.h>

int main() {
   int a = 5;
   printf("%d", a == 5 && a != 4);
   return 0;
}

A. 5
B. 1
C. 0
D. Undefined behavior

11. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int x = 10;
    printf("%d", x & 1 == 0);
    return 0;
}
```

A. 0
B. 2
C. 1
D. Compilation error

12. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int a = 7;
    printf("%d", a | 2 == 3);
    return 0;
}
```

A. 7
B. 1
C. 0
D. 3

13. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int i = 1;
    printf("%d", i += i++ + ++i);
    return 0;
}
```

A. 6
B. 7
C. Undefined behavior
D. 5

14. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int a = 5;
    printf("%d", a > 2 ? a < 10 ? 1 : 0 : 0);
    return 0;
}
```

A. 0
B. 1
C. 5
D. Compilation error

15. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int a = 1;
    printf("%d", sizeof(a = a + 1));
    return 0;
}
```

A. 1
B. 2
C. 4
D. Undefined behavior

16. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int a = 10;
    printf("%d", a && a++);
    return 0;
}
```

A. 10
B. 1
C. 11
D. Undefined behavior

17. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int a = 8;
    printf("%d", a >> 1 + 1);
    return 0;
}
```

A. 2
B. 3
C. 4
D. Undefined behavior

18. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int x = 3;
    printf("%d", x * x == 9);
    return 0;
```

}

A. 9
B. 1
C. 0
D. 3

19. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int a = 5;
    printf("%d", a & 3 == 1);
    return 0;
}
```

A. 1
B. 0
C. 5
D. Compilation error

20. What will be the output of the following C program?

```c
#include <stdio.h>

int main() {
    int i = 2;
    printf("%d", i+++ ++i);
    return 0;
}
```

A. 5
B. 6
C. Compilation error
D. Undefined behavior