

What are the values of a and b after the execution

Statements.

- a. $a = 5, b = 5$
- ☒ b. $a = 6, b = 5$
- c. $a = 5, b = 6$
- d. $a = 6, b = 6$

2. What will be the output of the following code?

```
int x = 10;  
printf ("%d %d\n", x++, ++x);
```

- a. 10 12
- b. 11 11
- c. 11 12

* The order of evaluation is unspecified, leading to potential variations

3. What will be the output of the following code?

```
int num = 5;  
if (num % 2 == 0) {  
    printf ("even\n");  
} else {  
    printf ("odd\n");  
}
```

- a. Even
- ☒ b. Odd
- c. Error
- d. no output

4. int a=10, b=20;

if (a>b) {

if (b<15) {

printf ("Hello\n");

}

else

printf ("world\n");

}

}

else {

printf ("C programming\n");

}

a. Hello

~~b. world~~

c. C-programming

d. Error

5. int i=0

if (i++ == 0) {

++;

} else {

--;

a. 0

b. 1

~~c. 2~~

d. -1

6. int score = 75;

if (score > 90) {

printf ("Grade A1\n");

}

```

else if (score >= 70) {
    printf("Grade B\n");
}
else if (score >= 80) {
    printf("Grade E\n");
} else {
    printf("Grade F\n");
}

```

a. Grade A

~~b. Grade B~~

c. Grade C

d. Grade F

7. int j=3;

int k = ++j * 2;

a. 6

~~b. 8~~

c. 7

d. 9

8. int p=5, q=10;

if (p > 0 && q < 15) {

printf("condition met\n");

} else {

printf("condition not met\n");

}

~~a. Condition met~~

b. Condition not met

c. error

d. no output

9. int m = 7

int n = m++ + ++m;

a. m = 3, n = 4

~~b. m = 3, n = 5~~

c. m = 9, n = 3

d. m = 2, n = 4

10. int main() {

int x = 5;

int y = --x;

printf("%d %d", x, y);

return 0;

}

a. x = 5, y = 5

b. x = 4, y = 5

~~c. x = 4, y = 4~~

d. x = 5, y = 4

11. int a = 10;

int b = a--;

a. a = 10, b = 10

~~b. a = 9, b = 10~~

c. a = 9, b = 9

d. a = 10, b = 9

12. int main() {

int i = 3;

printf("%d %d", i--, --i);

return 0;

}

a. 3, 2

b. 2, 3

c. 2, 1

~~d. 3, 1~~

13. int main ()

{

int a = 1, b = 1, c;

c++ + b;

printf ("%d %d", a, b);

a. a = 1, b = 1

~~b. a = 2, b = 1~~

c. a = 1, b = 2

d. a = 2, b = 2

14. int main ()

{

int a = 1, b = 1, d = 1;

printf ("%d %d %d", ++a + ++a + a++, a++ + ++b,
++d + d++ + a++);

}

a. 15, 4, 5

b. 9, 6, 5

c. 9, 3, 5

d. undefined

15. int main ()

{

int a = 10, b = 10;

if (a = 5)

```
b--;  
printf ("%d , %d", a, b--);
```

```
}
```

a. a=10, b=9

b. a=10, b=8

~~c. a=5, b=9~~

d. a=5, b=8

16. int main ()

```
{
```

```
int i=0;
```

```
int j = i++ + i;
```

```
printf ("%d\n", j);
```

```
}
```

a. 0

~~b. 1~~

c. 2

d. compile time error

17. int main()

```
{
```

```
int i=2;
```

```
int j = ++i + i;
```

```
printf ("%d\n", j);
```

```
}
```

~~a. 6~~

b. 5

c. 4

d. compile time error

```

18. int main()
{
    int i=2;
    i = i++ + i;
    printf("%d\n", i);
}

```

~~a.~~ = operator is not a sequence point

b. ++ operator may return value with or without side effects,

c. it can be evaluated as $(i++) + i$ or $i + (i++)$

d. = operator is a sequence point

19. what is the value of

```

int a=3;
a = a++ + a--;

```

a. 6

~~b. 7~~

c. 8

d. 9

20. what is the value of

```

int q=8;
q = q-- ++ q + q --;

```

~~a. 12~~

b. 13

c. 14

d. 15


```
int main( ) {
```

3 variable maximum number
programs

```
int num1, num2, num3;
```

```
printf ("Enter three number : ");
```

```
scanf ("%d %d %d", &num1, &num2, &num3);
```

```
if (num1 >= num2 && num1 > num3) {
```

```
printf ("the maximum number is : %d \n", num1);
```

```
}
```

```
else if (num2 >= num1 && num2 > num3) {
```

```
printf ("the maximum number is : %d \n", num2);
```

```
}
```

```
else
```

```
printf ("the maximum number is : %d \n", num);
```

```
}
```

```
return 0;
```

```
}
```

```
#include <stdio.h>
```

```
int main(void) {
```

```
int a, b, c, max;
```

```
printf ("enter three numbers : ");
```

```
scanf ("%d %d %d", &a, &b, &c);
```

```
max = (a > b) ? (a > c ? a : c) : (b > c ? b : c);
```

```
printf ("largest of three number is %d \n", max);
```

```
return 0;
```

```
}
```