

1. What will be the output of the following C code? `#include <stdio.h> int main() { int y = 1; if (y & (y = 2)) printf("true %d\n", y); else printf("false %d\n", y); return 0; } *`
 - A. true 2
 - B. false 2
 - C. either true 2 or false 2
 - D. true 1
2. What will be the output of the following C code? `#include <stdio.h> int main() { int a = 2; int b = 0; int y = (b == 0) ? a : (a > b) ? (b = 1) : a; printf("%d\n", y); return 0; } *`
 - A. 3
 - B. 1
 - C. 2
 - D. COMPILE TIME ERROR
3. What will be the output of the following C code? `#include <stdio.h> #define max(a) a int main() { int x = 1; switch (x) { case max(2): printf("yes\n"); case max(1): printf("no\n"); break; } return 0; } *`
 - A. no
 - B. compile time error
 - C. yes no
 - D. yes
4. What will be the output of the following C code? `#include <stdio.h> int main() { switch (printf("Do")) { case 1: printf("First\n"); break; case 2: printf("Second\n"); break; default: printf("Default\n"); break; } return 0; } *`
 - A. Do
 - B. DoFirst
 - C. DoSecond
 - D. DoDefault
5. What will be the output of the following C code? `#include <stdio.h> int main() { int i = 0; do { i++; if (i == 2) continue; printf("In while loop "); } while (i < 2); printf("%d\n", i); return 0; } *`
 - A. In while loop 3
 - B. Infinite loop
 - C. In while loop 2
 - D. In while loop in while loop 3
6. What will be the output of the following C code? `#include <stdio.h> int main() { int i = 0, j = 0; for (i; i < 2; i++){ for (j = 0; j < 3; j++) { printf("1"); break; } printf("2"); } printf("after loop"); return 0; } *`
 - A. 1 after loop
 - B. 1 2 after loop
 - C. 1 1 2 after loop
 - D. 1 2 1 2 after loop
7. `#include <stdio.h> int main() { int i = 0; while (i < 2) { if (i == 1) break; i++; if (i == 1) continue; printf("In while loop"); } printf("After loop"); return 0; } *`

- A. In while loop In while loop After loop
 B. In while loop After loop
 C. In while loop
 D. After loop
8. What will be the output of the following C code? `#include <stdio.h> int main() { int a = -1, b = 4, c = 1, d; d = ++a && ++b || ++c; printf("%d, %d, %d, %d\n", a, b, c, d); return 0; } *`
 A. 0, 5, 1, 0
 B. -1, 4, 1, 1
 C. 0, 5, 2, 1
 D. 0, 4, 2, 1
9. What will be the output of the following C code? `#include <stdio.h> int main() { int x = 3, i = 0; do { x = x++; i++; } while (i != 3); printf("%d\n", x); return 0; } *`
 A. 5
 B. 3
 C. undefined behavior
 D. 6
10. What will be the output of the following C code? `#include <stdio.h> int main() { int p = 10, q = 20, r; if (r = p = 5 || q > 20) printf("%d", r); else printf("No Output\n"); return 0; } *`
 A. 1
 B. 10
 C. 20
 D. No output
11. What will be the output of the following C code? `#include <stdio.h> int main() { char *a[1] = {"hello"}; printf("%s", a[0]); return 0; } *`
 A. Compile time error
 B. hello
 C. Undefined behaviour
 D. hellon
12. What will be the output of the following C code? `#include <stdio.h> void main() { char *s= "hello"; char *p = s; printf("%c\t%c", *(p + 3), s[1]); } *`
 A. h e
 B. ll
 C. lo
 D. le
13. What will be the output of the following C code? `#include <stdio.h> void m(int *p) { int i = 0; for(i = 0; i < 5; i++) printf("%d\t", p[i]); } void main() { int a[5] = {6, 5, 3}; m(&a); } *`
 A. 0 0 0 0 0
 B. 6 5 3 0 0
 C. Run time error
 D. 6 5 3 junk junk
14. What will be the output of the following C code? `#include <stdio.h> void main() { int x = 0; int *ptr = &5; printf("%p\n", ptr); } *`

- A. 5
- B. Address of 5
- C. Nothing
- D. Compile time error

15. What will be the output of the following C code? `#include <stdio.h> int main() { int a = 10, b = 10; if (a = 5) b--; printf("%d, %d", a, b--); return 0; } *`

- A. a = 10, b = 9
- B. a = 10, b = 8
- C. a = 5, b = 9
- D. a = 5, b = 8

16. What will be the output of the following C code? `#include <stdio.h> void main() { int k; for (k = -3; k < -5; k++); printf("Hello"); } *`

- A. Hello
- B. Infinite hello
- C. Run time error
- D. Nothing

17. What will be the output of the following C code? `#include <stdio.h> int main() { int i = 0; for (i++; i == 1; i = 2) printf("In for loop "); printf("After loop\n"); return 0; } *`

- A. In for loop after loop
- B. After loop
- C. Compile time error
- D. Undefined behaviour

18. What does the following function do? `int fun(int x, int y){ if (y == 0) return 0; return (x + fun(x, y-1));}`

- A. x + y
- B. x + x*y
- C. x*y
- D. x

19. What does the following function do? `int fun(unsigned int n){ if (n == 0 || n == 1) return n; if (n%3 != 0) return 0; return fun(n/3);} *`

- A. It returns 1 when n is a multiple of 3, otherwise returns 0
- B. It returns 1 when n is a power of 3, otherwise returns 0
- C. It returns 0 when n is a multiple of 3, otherwise returns 1
- D. It returns 0 when n is a power of 3, otherwise returns 1

20. Predict the output of following program `#include <stdio.h> int f(int n){ if(n <= 1) return 1; if(n%2 == 0) return f(n/2); return f(n/2) + f(n/2+1);} int main(){ printf("%d", f(11)); return 0;} *`

- A. Stack Overflow
- B. 3
- C. 4
- D. 5