

Name
Order of operations Practice in C

| 1. | Which of the following is the correct order of evaluation for the below expression? $\begin{aligned} & z=x+y * z / 4 \% 2-1 \\ & \underline{\text { A. }} * / \%+-= \\ & \underline{\text { B. }}=* / \%+- \\ & \text { C. } / * \%-+= \\ & \underline{\text { D. }} * \% /-+= \end{aligned}$ | A |
| :---: | :---: | :---: |
| 2. | Which of the following correctly shows the hierarchy of arithmetic operations in C? <br> A. $/+$ * - <br> B. ${ }^{*}-/+$ <br> C. + - / * <br> D. $/ *+$ | D Simply called as BODMAS <br> (Bracket of Division, Multiplication, Addition and Subtraction) |
| 3. | What will be the output of the program? ```#include<stdio.h> int main() { int i=-3, j=2, k=0, m; m = ++i && ++j && ++k; printf("%d, %d, %d, %d\n", i, j, k, m) ; return 0; }``` <br> A. $-2,3,1,1$ <br> B. 2, 3, 1, 2 <br> C. $1,2,3,1$ <br> D.3, 3, 1, 2 | A |
| 4. | int $\mathrm{x}=2$ * $10+10 / 2+2$; | 27 |
| 5. | int $\mathrm{x}=2$ * (10/10) / $2+2$; | 22 |
| 6. | int $\mathrm{x}=2$ * (10 + 10) / $(2+2)$; | 10 |

Rewrite each of these in the way you would type it into the computer in C language

13. Based on the C operator precedence and associativity, state the execution order of the following expressions by writing $1,2,3,4$ in the proper boxes. (ie. write a 1 in the box under the operation that will be done first, write a 2 in the box under the operation that will be done second, etc.)



a /
$(\mathrm{b}$ 虽 $(\mathrm{c}+(\mathrm{d}-\mathrm{e})))$

a
(b)
(c


