|  |  |  |  |
| --- | --- | --- | --- |
| **Logical Expression (x is an int)** | **Will return 1 if…** | **Output when x = 4** | **Output when x = 9** |
| x > 4 | x is greater than 4 | 0 | 1 |
| x < 9 | x is less than 9 | 1 | 0 |
| x <= 9 | x is less than or equal to 9 | 1 | 1 |
| x >= 5 && x <= 9 | x is between 5 and 9 inclusive | 0 | 1 |
| x < 100 || x > 100 | x is not 100 | 1 | 1 |
| x % 2 == 0 | x is even | 1 | 0 |
| x % 2 != 0 | x is odd | 0 | 1 |
| !(x >= 4 && x <= 9) | x is not between 4 and 9 inclusive | 0 | 0 |

|  |  |
| --- | --- |
| **Logical Expression (c is a char)** | **Will return 1 if…** |
| c >= 65 && c <= 90 | c is a capital letter |
| (c >= 65 && c <= 90) || (c >= 97 && c <= 122) |  |
| (c >= 65 && c <= 90) && (c >= 97 && c <= 122) |  |
| (c >= 65 && c <= 90) || (c >= 97 && c <= 122) || (c >= 48 && c <= 57) |  |
| !((c >= 65 && c <= 90) || (c >= 97 && c <= 122) || (c >= 48 && c <= 57)) |  |