|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| p | q | r | (p && q) || !r | !(p && (q || !r)) |
| False | False | False | True | True |
| False | False | True | False | True |
| False | True | False | True | True |
| False | True | True | False | True |
| True | False | False | True | True |
| True | False | True | False | True |
| True | True | False | True | False |
| True | True | True | True | True |

1. For the first part, if x>0 s++ also if y>0 s++ So, if both are greater than 0 s will be incremented twice. In the other, if x < 0 but y > 0 s will still be incremented but only once.
2. Ten times
3. Ten times
4. Ten times
5. Twenty one times
6. Infinite Loop
7. Eleven times
8. Seven times
9. Vector<int> vec(10);

For (int n = 0; n < 10; n++)

Vec[n] = n;

1. Vector<int> vec(10);

For (int n = 0; n < 10; n++)

Vec[n] = 2\*n;

1. Vector<int> vec(10);

For (int n = 0; n < 10; n++)

Vec[n] = (n+1)\*(n+1);

1. Vector<int> vec(10);

For (int n = 0; n < 10; n++)

Vec[n] = 0;

1. Vector<int> vec(9);

For (int n = 0; n < 10; n++)

Vec[0] = 1;

Vec[1] = 4;

Vec[2] = 9;

Vec[3] = 16;

Vec[4] = 9;

Vec[5] = 7;

Vec[6] = 4;

Vec[7] = 9;

Vec[8] = 11;

Vec[9] = 1;