

# Example CBV

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```
int p = 2;
int q = 3;
int f1(int b, int c) { // 2 3 || 2 3 || 3 3
    b = 2 * c; // b = 2 * 3 || b = 2 * 3 || b = 2 * 3
    c = 5 + b; // c = 5 + 6 || c = 5 + 6 || c = 5 + 6
    return b + c; // 6 + 11 = 17 || 6 + 11 = 17 || 6 + 11 = 17
}
int f2( int a) { // 3
    return f1(a, a); // 17
}
print f1(p,q) // 17
print p, q // 2 3
f1(p,q) // 17
print f2(q) // 17
print p, q // 2 3
```

# Example CB- Reference

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```
int p = 2;
int q = 3;
int f1(int b, int c) { // 2 3 || 6 11 || 27 27
    b = 2 * c; // b = 2 * 3 || b = 2 * 11 || b = 2 * 27
    c = 5 + b; // c = 5 + 6 || c = 5 + 22 || c = 5 + 54
    return b + c; // 6 + 11 = 17 || 22 + 27 = 49 || 59 + 59 = 118 (note b and c are aliases)
}
int f2( int a) { // 27
    return f1(a, a); // 118
}
print f1(p,q) // 17
print p, q // 6 11
f1(p,q) // 49
print f2(q) // 118
print p, q // 22 59
```

# Example CB-Value Result

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```
int p = 2;
int q = 3;
int f1(int b, int c) { // 2 3 || 6 11 || 27 27
    b = 2 * c; // b = 2 * 3 || b = 2 * 11 || b = 2 * 27
    c = 5 + b; // c = 5 + 6 || c = 5 + 22 || c = 5 + 54
    return b + c; // 6 + 11 = 17 || 22 + 27 = 49 || 54 + 59 = 113 (note b and c are not aliases)
}
int f2( int a) { // 27
    return f1(a, a); // 113
}
print f1(p,q) // 17
print p, q // 6 11
f1(p,q) // 49
print f2(q) // 113
print p, q // 22 59
```

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- CB-value: 17, 2, 3, 17, 2, 3
  - CB-reference: 17, 6, 11, 118, 22, 59
  - CB-Value-Result: 17, 6, 11, 113, 22, 59.