Listing 1: C++ code using listings

```
int main(void)
{
    int a, d;
    // forall variable
    klee_make_symbolic(&a, sizeof(a), "a_sym");
    // PSE variable : Uniformly distributed [0 to 650]
    make_pse_symbolic<int>(&d, sizeof(d), "d_prob_sym", 0, 650);
    int c = a + 100;

    // case 1
    if (a > 50) {
        c = a + 75;
    }   else    {
        c = a - 75;
    }

    // case 2
    if (d > 60)
        d = 250;

    // case 3 -> Complex Case
    if (c > d)
        c = d;

    return 0;
}
```

Algorithm 1 Complex Case : (Testing Based Estimation)

```
for each a ∈ A do
    command                          ▷ This is a comment
    another command                  ▷ This is another comment
end for each
```