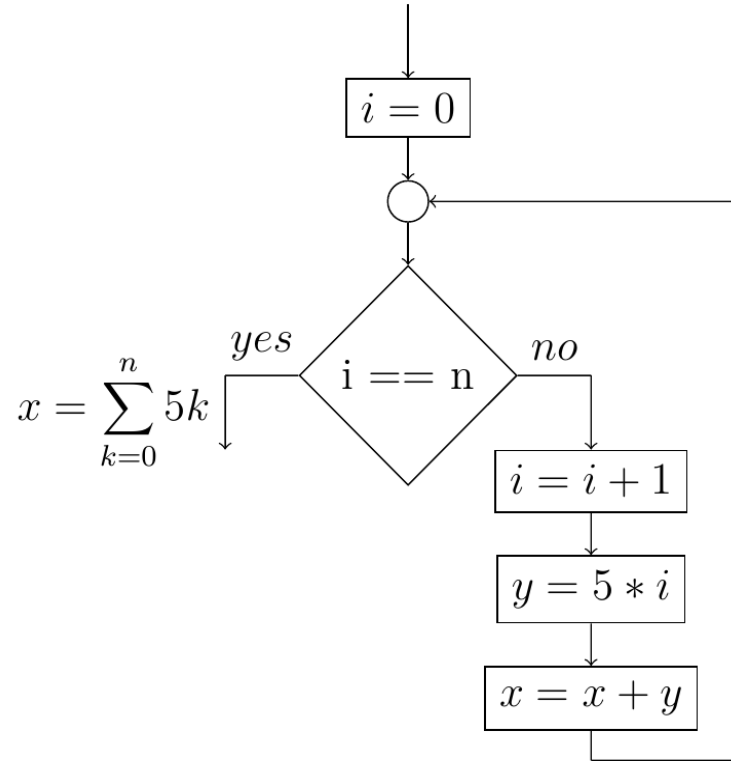
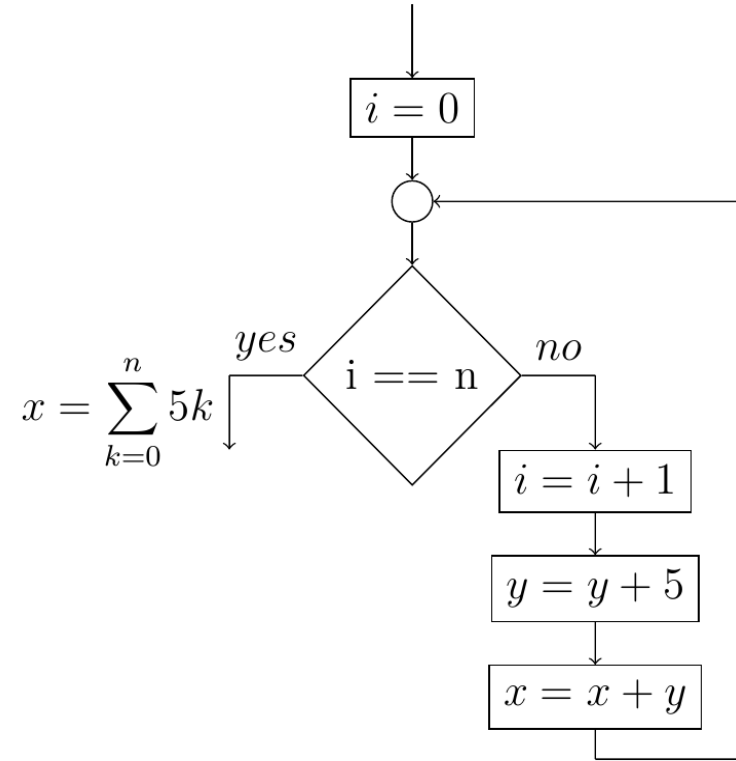


Consider these control flow graph fragments (assume x and y to be 0 initially):

1.

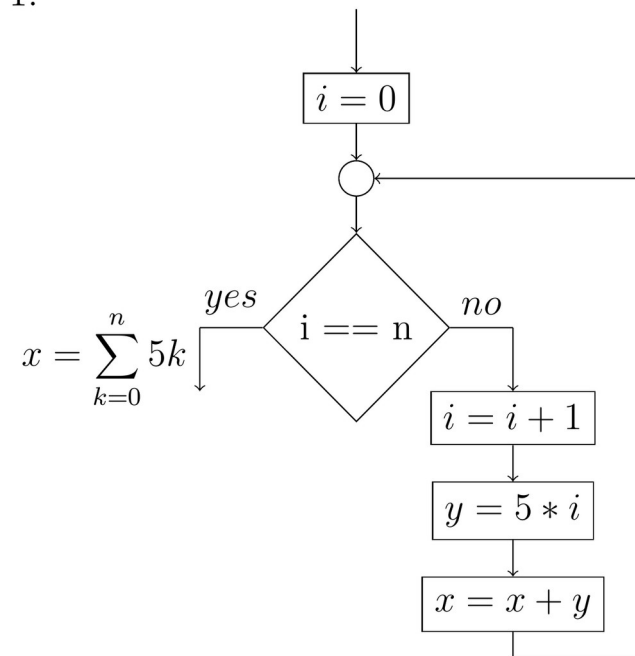


2.

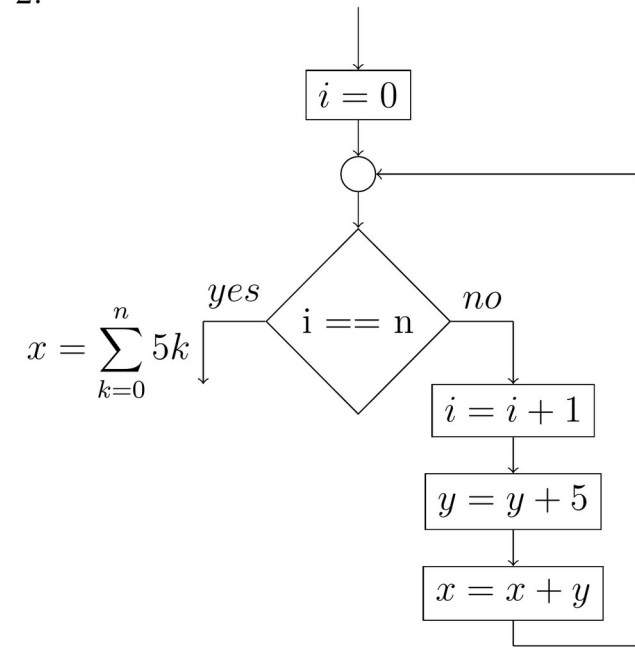


Find suitable loop invariants and prove them locally consistent. Discuss, why these invariants have to be like that.

1.



2.



1. Try the same loop invariant again
2. Why didn't it work? What information are we missing?
3. How can add that information to our proof?