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(This pseudo code was given in class by Dr. Shen, so I don't take full credit)

if current stmt is ASSIGNMENT
        if previous sibling is null (first stmt in block)
                create new basic block with current stmt
                and map the statement to it
                if parent is IF
                        if current stmt is not in else block
                                update true next of parent node
                        else
                                update false next of parent node
                if parent is WHILE
                and map the assignment to it
                        update true next of parent node
        if previous sibling is ASSIGNMENT
                add current stmt to node for previous sibling
        if previous sibling is IF
                create new basic block
                get last basic blocks from both branches (map to unsettled)
                update to point to current
        if previous sibling is WHILE
                create new basic block
                update false next of previous sibling
if current stmt is IF
        Create a control block.
        If previous statement == expression
                if current node == if_statement
                        Create a basicblock.
                        and map the statement to it
                        Update True.next and false.next.
        if previous statement == contains a control block
        else
        update the next pointers of the nodes which are not set to
        connect the nodes.
        else
                If previous statement == if_statement
                create a control block.
                and map the if block to it.
```