Compiler 2

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```
1    class For extends Stmt {
2      Expr E1, E2, E3;
3      Stmt S;
4      public For(Expr expr1, Expr expr2, Expr expr3, Stmt stmt){
5        E1 = expr1; E2 = expr2; E3 = expr3; S = stmt;
6      }
7      public void gen(){
8        E1.gen();
9        Label start = new Label(); Label end = new Label();
10       emit("ifFalse " + E2.rvalue().toString() + " goto " + end);
11       S.gen(); E3.gen();
12       emit("goto " + start);
13       emit(end + ":")
14     }
15   }
16
```