$Chapter\ 2 - HW02$

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2.8.1 解: 类 *For* 的定义如下:

```
1  class For extends Stmt{
2    Expr E1, E2, E3;
3    Stmt S;
4    public For(Expr x1, Expr x2, Stmt y){
5         E1 = x1; E2 = x2; E3 = x3; S = y;
6         loop = newlabel(); end = newlabel();
7    }
8    public void gen(Expr x3){
9         E1.gen();
10        emit( loop + ":" );
11        Expr n = E2.rvalue();
12        emit( "ifFalse " + n.toString()
13           + " goto " + end );
14        S.gen();
15        E3.gen();
16        emit( "goto " + loop );
17        emit( end + ":" );
18   }
19 }
```