

```
530         else if (Scanner.TokenCode == FOR)
531         {
532             GetNextToken();
533
534             right = Variable();
535             if (Scanner.TokenCode == ASSIGN)
536             {
537                 GetNextToken();
538                 left = SimpleExpression();
539                 Quads.AddQuad(MOV, left, -1, right); // Save the value of the expression in the variable.
540                 saveTop = Quads.NextQuad();
541                 if (Scanner.TokenCode == TO)
542                 {
543                     GetNextToken();
544                     limit = SimpleExpression();
545                     temp = GenSymbol();
546                     Quads.AddQuad(SUB, right, limit, temp);
547                     branchQuad = Quads.NextQuad();
548                     Quads.AddQuad(BP, temp, -1, 0);
549
550                     if (Scanner.TokenCode == DO)
551                     {
552                         GetNextToken();
553                         Statement();
554
555                         Quads.AddQuad(ADD, right, Plus1Index, right);
556                         Quads.AddQuad(BR, -1, -1, saveTop);
557                         Quads.SetQuadOp3(branchQuad, Quads.NextQuad());
558                     }
559                     else
560                         UnexpectedTokenError("DO");
561                 }
562                 else
563                     UnexpectedTokenError("TO");
564             }
565             else
566                 UnexpectedTokenError("ASSIGN");
567         }
```