```
/* comment
   Long */
public  bool  foo1(args>>  int: a, b, c; char: c1) : static
{
  var bool: res;
  {
    var  char: x,b;
    var int: y;
    b<- '&';
    /*1  a<- x; */ /* Type mismatch: int<-char */
    /*2 b<- 8; */ /* Type mismatch: char<-int_literal */
    a<- (y*7)/a-y;
    /*3 a<- (y*7)/b-y; */ /* Type mismatch: int/char */
    /*4 a<- (y*7)/a-c1; */ /* Type mismatch: int-char */
    /*5 res<- (b==c) && (y>a); */ /* Type mismatch: char==int */
    /*6 res<- (b==c1) && (y+a); */ /* Type mismatch: bool&&int */
    /*7 3+6<- 9; */ /* Semantic: int_literal<-int */
    /*8 %x<- 6 ;*/ /* Syntactic: %id */
  }
  return res;
}
public void fee1(args>> int: i, j, k, x) : static
{
    private bool  fee2 (args>> int: l, m, n) : static
    {
      var bool: x, j;
      /*10 var bool: n;*/ /* Redeclaration int n -> bool n */
      var char: k;
      k<- '@';
      i<- l + l;
      /*11 i<- j+1; */ /* Type mismatch: bool+int_literal */
      /*12 i<- k+1; */ /* Type mismatch: char+int_literal */
      if((k=='*') || (x!=false) && ( l+m < i)) {
          x<- l<m;
      }
      return x;
    }
    {
      var char: x;
      var bool: k;
```

```
        k<- fee2(5,i,j);
        /*13 x<- fee2(5,i,j); */ /* Type mismatch: char<-bool */
        /*14 k <- fee2(5,i); */ /* Semantic: num params */
        /*15 k <- fee2(5,x,j); */ /* Semantic: type params */
    }
    /*16 n<- false; */ /* Semantic: unknown n*/
    /*17 x<- '#'; */ /* Type mismatch: int<-char */
    x<- k;
}
public int foo3(args>> int: i, j , k) : static
{
    var  int: total; /* variable declaration */
    var  bool: bo;
    private int  square(args>> int: t) : static  /* function declaration */
    {
        var  int: temp;
        temp<- t*t;
        return temp;
    }
    bo<- foo1(i, j, k, '^');
    /*18 j<- foo2(); */ /* Semantic: unknown foo2 */
    total<- square(i+j+k);  /* statemets */
    return total;
}
public int foo2() : static
{
    string  s1 [100];
    string  s2 [100];
    var  int: i, j, cnt;
    i<- 0;
    j<- 0;
    cnt<- 1;
    while(i < |s1|)  {
        while(j < |s2| / 2)  {
            if(s1[i] == s2[j])   {
                cnt<- cnt*2;
            }
```

```
        j<- j+1;
      }
      i<- i+1;
  }
   return cnt;
}
public  void  main() : static
{
  var int: a;
  a <- foo2();
}
```