```
Input:
const m = 7, n = 85;
var i,x,y,z,q,r;
procedure mult;
 var a, b;
  begin
     a := x; b := y; z := 0;
     while b > 0 do
     begin
        if odd x then z := z+a;
           a := 2*a;
           b := b/2;
     end
  end;
begin
 x := m;
 y := n;
  call mult;
end.
Output:
Source Program:
const m = 7, n = 85;
var i,x,y,z,q,r;
procedure mult;
  var a, b;
  begin
     a := x; b := y; z := 0;
     while b > 0 do
     begin
        if odd x then z := z+a;
           a := 2*a;
           b := b/2;
     end
  end;
begin
 x := m;
 y := n;
 call mult;
end.
Lexeme Table:
Lexeme
                Token Type
const
                28
m
                2
                9
```

```
7
                3
                17
,
                2
n
                9
                3
85
;
                18
                29
var
                2
i
                17
Х
                2
                17
                2
У
                17
z
                2
17
                2
q
                17
                2
                18
procedure
                        30
                2
mult
                18
;
                29
var
а
                2
                17
,
b
                2
                18
begin
                21
                2
а
                20
:=
                2
Х
                18
;
                2
b
:=
                20
                2
у
                18
;
Z
                2
:=
                20
                3
0
                18
while
                25
b
                2
                13
>
0
                3
                26
do
                21
begin
if
                23
                2
odd
                2
Х
                24
then
                2
z
```

```
20
:=
                2
Z
+
                4
                2
а
                18
;
                2
а
:=
                20
2
                3
                6
                2
а
                18
;
b
                2
:=
                20
                2
b
                17
/
2
                3
                18
;
                22
end
                22
end
                18
                21
begin
                2
Х
:=
                20
                2
m
                18
;
                2
У
                20
:=
n
                2
                18
call
                27
mult
                2
                18
;
                22
end
                19
```

Lexeme List:

 $28\ 2\ m\ 9\ 3\ 7\ 17\ 2\ n\ 9\ 3\ 85\ 18\ 29\ 2\ i\ 17\ 2\ x\ 17\ 2\ y\ 17\ 2\ z\ 17\ 2\ q\ 17\ 2\ r\ 18\ 30\ 2\ mult \\ 18\ 29\ 2\ a\ 17\ 2\ b\ 18\ 21\ 2\ a\ 20\ 2\ x\ 1$

8 2 b 20 2 y 18 2 z 20 3 0 18 25 2 b 13 3 0 26 21 23 2 odd 2 x 24 2 z 20 2 z 4 2 a 18 2 a 20 3 2 6 2 a 18 2 b 20 2 b 17

3 2 18 22 22 18 21 2 x 20 2 m 18 2 y 20 2 n 18 27 2 mult 18 22 19