





```
input.txt
1 const x = 1, y = 2;
2 var f, n
3 procedure fact;
4   var ans1;
5   begin
6     ans1:=n;
7     n:= n-1;
8     if n = 0 then
9       f := 1;
10    if n > 0 then
11      call fact;
12
13    f:=f*ans1;
14  end;
15 begin
16   read n;
17   if n > 10 then
18     n := 5;
19   else
20     n := 4;
21
22   call fact;
23   write f;
24 end.
```

```
Michaels-MacBook-Pro-2:Desktop mike_b$ ./a.out input.txt -1
symbol: x 1 0
symbol: y 1 0
symbol: f 2 0
symbol: n 2 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
Lexeme List:
28 2 x 9 3 1 17 2 y 9 3 2 18 29 2 f 17 2 n 30 2 fact 18 29 2 ans1 18 21 2 ans1 20 2 n 18 2 n 20 2 n 5
3 1 18 23 2 n 9 3 0 24 2 f 20 3 1 18 23 2 n 13 3 0 24 27 2 fact 18 2 f 20 2 f 6 2 ans1 18 22 18 21 3
2 2 n 18 23 2 n 13 3 10 24 2 n 20 3 5 18 33 2 n 20 3 4 18 27 2 fact 18 31 2 f 18 22 19

constsym identsym x eqsym numbersym 1 commasym identsym y eqsym numbersym 2 semicolonsym varsym ident
sym f commasym identsym n procsym identsym fact semicolonsym varsym identsym ans1 semicolonsym begins
ym identsym ans1 becomessym identsym n semicolonsym identsym n becomessym identsym n minussym numbers
ym 1 semicolonsym ifsym identsym n eqsym numbersym 0 thensym identsym f becomessym numbersym 1 semico
lonsym ifsym identsym n gtrsym numbersym 0 thensym callsym identsym fact semicolonsym identsym f beco
messym identsym f multsym identsym ans1 semicolonsym endsym semicolonsym beginsym readsym identsym n
semicolonsym ifsym identsym n gtrsym numbersym 10 thensym identsym n becomessym numbersym 5 semicolon
sym elsesym identsym n becomessym numbersym 4 semicolonsym callsym identsym fact semicolonsym writesy
m identsym f semicolonsym endsym periodsym

Error 3: ';' not found.
Michaels-MacBook-Pro-2:Desktop mike_b$
```





Line 1, Column 9      Spaces: 3      Plain Text

```
Michaels-MacBook-Pro-2:Desktop mike_b$
```





```
input.txt
1 const x = 1, y = 2;
2 var f, n;
3 procedure fact;
4   var ans1;
5
6   ans1:=n;
7   n:= n-1;
8   if n = 0 then
9     f := 1;
10  if n > 0 then
11    call fact;
12
13  f:=f*ans1;
14 end;
15 begin
16   read n;
17   if n > 10 then
18     n := 5;
19   else
20     n := 4;
21
22   call fact;
23   write f;
24 end.
```

```
Michaels-MacBook-Pro-2:Desktop mike_b$ ./a.out input.txt -1
current token is: 2
word is: fact
symbol: x 1 0
symbol: y 1 0
symbol: f 2 0
symbol: n 2 0
symbol: fact 3 0
symbol: ans1 2 1
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
Lexeme List:
28 2 x 9 3 1 17 2 y 9 3 2 18 29 2 f 17 2 n 18 30 2 fact 18 29 2 ans1 18 2 ans1 20 2 n 18 2 n 20 2 n 5
3 1 18 23 2 n 9 3 0 24 2 f 20 3 1 18 23 2 n 13 3 0 24 27 2 fact 18 2 f 20 2 f 6 2 ans1 18 22 18 21 3
2 2 n 18 23 2 n 13 3 10 24 2 n 20 3 5 18 33 2 n 20 3 4 18 27 2 fact 18 31 2 f 18 22 19

constsym identsym x eqsym numbersym 1 commasy identsym y eqsym numbersym 2 semicolonsym varsym ident
sym f commasy identsym n semicolonsym procsym identsym fact semicolonsym varsym identsym ans1 semico
lonsym identsym ans1 becomessym identsym n semicolonsym identsym n becomessym identsym n minussym num
bersym 1 semicolonsym ifsym identsym n eqsym numbersym 0 thensym identsym f becomessym numbersym 1 se
micolonsym ifsym identsym n gtrsym numbersym 0 thensym callsym identsym fact semicolonsym identsym f
becomessym identsym f multsym identsym ans1 semicolonsym endsym semicolonsym beginsym readsym identsy
m n semicolonsym ifsym identsym n gtrsym numbersym 10 thensym identsym n becomessym numbersym 5 semic
olonsym elsesym identsym n becomessym numbersym 4 semicolonsym callsym identsym fact semicolonsym wri
tesym identsym f semicolonsym endsym periodsym

Error 9: 'begin' statement for program block not found.
Michaels-MacBook-Pro-2:Desktop mike_b$
```



```
input.txt
1 const x = 1, y = 2;
2 var f, n;
3 procedure fact;
4   var ans1;
5   begin
6     ans1:=n;
7     n:= n-1;
8     if n = 0 then
9       f := 1;
10    if n > 0 then
11      call fact;
12
13    f:=f*ans1;
14  end;
15 begin
16   read n;
17   if n > 10 then
18     n := 5;
19   else
20     n := 4;
21
22   call fact;
23   write f;
24 end
```

```
Michaels-MacBook-Pro-2:Desktop mike_b$ ./a.out input.txt -1
current token is: 2
word is: fact
symbol: x 1 0
symbol: y 1 0
symbol: f 2 0
symbol: n 2 0
symbol: fact 3 0
symbol: ans1 2 1
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
Lexeme List:
28 2 x 9 3 1 17 2 y 9 3 2 18 29 2 f 17 2 n 18 30 2 fact 18 29 2 ans1 18 21 2 ans1 20 2 n 18 2 n 20 2
n 5 3 1 18 23 2 n 9 3 0 24 2 f 20 3 1 18 23 2 n 13 3 0 24 27 2 fact 18 2 f 20 2 f 6 2 ans1 18 22 18 2
1 32 2 n 18 23 2 n 13 3 10 24 2 n 20 3 5 18 33 2 n 20 3 4 18 27 2 fact 18 31 2 f 18 22

constsym identsym x eqsym numbersym 1 commasy identsym y eqsym numbersym 2 semicolonsym varsym ident
sym f commasy identsym n semicolonsym procsym identsym fact semicolonsym varsym identsym ans1 semico
lonsym beginsym identsym ans1 becomessym identsym n semicolonsym identsym n becomessym identsym n min
ussym numbersym 1 semicolonsym ifsym identsym n eqsym numbersym 0 thensym identsym f becomessym numbe
rsym 1 semicolonsym ifsym identsym n gtrsym numbersym 0 thensym callsym identsym fact semicolonsym id
entsym f becomessym identsym f multsym identsym ans1 semicolonsym endsym semicolonsym beginsym readsy
m identsym n semicolonsym ifsym identsym n gtrsym numbersym 10 thensym identsym n becomessym numbersy
m 5 semicolonsym elsesym identsym n becomessym numbersym 4 semicolonsym callsym identsym fact semicol
onsym writesym identsym f semicolonsym endsym

Error 10: '.' not found.
Michaels-MacBook-Pro-2:Desktop mike_b$
```

```

1  const x = 1, y = 2;
2  var f, n;
3  procedure fact;
4      var ans1;
5      begin
6          ans1:=n;
7          n:= n-1;
8          if n = 0 then
9              f := 1;
10         if n > 0 then
11             call fact;
12
13         f:=f*ans1;
14     end;
15 begin
16     read n;
17     if n > 10 then
18         n := 5;
19     else
20         n := 4;
21
22     call fact;
23     write f;
24 .

```

[illegible]

Lexeme List:

```

28 2 x 9 3 1 17 2 y 9 3 218 29 2 f 17 2 n 18 30 2 fact 18 29 2 ans1 18 21 2 ans1 20 2 n 18 2 n 20 2
1 32 1 n 18 23 2 n 9 3 0 24 2 f 20 3 1 18 23 2 n 13 3 0 24 27 2 fact 18 2 f 20 2 f 6 2 ans1 18 22 18 2
1 32 2 n 18 23 2 n 13 3 10 24 2 n 20 3 5 18 33 2 n 20 3 4 18 27 2 fact 18 31 2 f 18 19

```

```
constsym identsym x eqsym numbersym 1 commasym identsym y eqsym numbersym 2 semicolonsym varsym ident
sym f commasym identsym n semicolonsym procsym identsym fact semicolonsym varsym identsym ans1 semico
lonsym beginsym identsym ans1 becomesym identsym n semicolonsym identsym n becomesym identsym n min
ussym numbersym 1 semicolonsym ifsym identsym n eqsym numbersym 0 thensym identsym f becomesym numbe
rsym 1 semicolonsym ifsym identsym n gtrsym numbersym 0 thensym callsym identsym fact semicolonsym id
entsym f becomesym identsym f multisym identsym ans1 semicolonsym endsym semicolonsym beginsym readsy
m identsym n semicolonsym ifsym identsym n gtrsym numbersym 10 thensym identsym n becomesym numbersy
m 5 semicolonsym elsesym identsym n becomesym numbersym 4 semicolonsym callsym identsym fact semicol
onsym writesym identsym f semicolonsym periodsym
```

Error 11: no final end statement.

```
Michaels-MacBook-Pro-2:Desktop mike_b$
```

Line 7, Column 13







```
input.txt
1 const x = 1, y = 2;
2 var f, n;
3 procedure fact;
4   var ans1;
5   begin
6     ans1:=n;
7     n:= n- 1;
8     if ; = 0 then
9       f := 1;
10    if n > 0 then
11      call fact;
12
13    f:=f*ans1;
14  end;
15 begin
16   read n;
17   if n > 10 then
18     n := 5;
19   else
20     n := 4;
21
22   call fact;
23   write f;
24 end.
```

```
Michaels-MacBook-Pro-2:Desktop mike_b$ ./a.out input.txt -1
symbol: x 1 0
symbol: y 1 0
symbol: f 2 0
symbol: n 2 0
symbol: fact 3 0
symbol: ans1 2 1
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
Lexeme List:
28 2 x 9 3 1 17 2 y 9 3 2 18 29 2 f 17 2 n 18 30 2 fact 18 29 2 ans1 18 21 2 ans1 20 2 n 18 2 n 20 2
n 5 3 1 18 23 18 9 3 0 24 2 f 20 3 1 18 23 2 n 13 3 0 24 27 2 fact 18 2 f 20 2 f 6 2 ans1 18 22 18 21
32 2 n 18 23 2 n 13 3 10 24 2 n 20 3 5 18 33 2 n 20 3 4 18 27 2 fact 18 31 2 f 18 22 19

constsym identsym x eqsym numbersym 1 commasy identsym y eqsym numbersym 2 semicolonsym varsym ident
sym f commasy identsym n semicolonsym procsym identsym fact semicolonsym varsym identsym ans1 semico
lonsym beginsym identsym ans1 becomessym identsym n semicolonsym identsym n becomessym identsym n min
ussym numbersym 1 semicolonsym ifsym semicolonsym eqsym numbersym 0 thensym identsym f becomessym num
bersym 1 semicolonsym ifsym identsym n gtrsym numbersym 0 thensym callsym identsym fact semicolonsym
identsym f becomessym identsym f multsym identsym ans1 semicolonsym endsym semicolonsym beginsym read
sym identsym n semicolonsym ifsym identsym n gtrsym numbersym 10 thensym identsym n becomessym number
sym 5 semicolonsym elsesym identsym n becomessym numbersym 4 semicolonsym callsym identsym fact semic
olonsym writesym identsym f semicolonsym endsym periodsym

Error 15: expression cannot begin with this symbol ';'.
Michaels-MacBook-Pro-2:Desktop mike_b$
```



Line 7, Column 9; Saved ~/Desktop/input.txt (UTF-8)

```
Error 17: assignment symbol must follow variable.
Michael's-MacBook-Pro-2:Desktop mike_b$
```

Tab Size: 4 Plain Text



Line 5, Column 7

### Plain Text

```
Michaels-MacBook-Pro-2:Desktop mike_b$
```

Line 5, Column 5; Saved ~/Desktop/input.txt (UTF-8)

```
Error 19: 'z' not declared.
Michael's-MacBook-Pro-2:Desktop mike_b$
```

```
input.txt
1  const x = 5, y = 6, x = 6;
2  var f, n;
3  procedure fact;
4      var ans1;
5      begin
6          ans1:=n;
7          n:= n-1;
8          if n = 0 then
9              f := 1;
10         if n > 0 then
11             call fact;
12
13         f:=f*ans1;
14     end;
15 begin
16     read n;
17     if n > 10 then
18         n := 5;
19     else
20         n := 4;
21
22     call fact;
23     write f
24 end.
25
```

```
Michaels-MacBook-Pro-2:Desktop mike_b$ ./a.out input.txt -l-v-a
symbol: x 1 0
symbol: y 1 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
Lexeme List:
28 2 x 9 3 5 17 2 y 9 3 6 17 2 x 9 3 6 18 29 2 f 17 2 n 18 30 2 fact 18 29 2 ans1 18 21 2 ans1 20 2 n
18 2 n 20 2 n 5 3 1 18 23 2 n 9 3 0 24 2 f 20 3 1 18 23 2 n 13 3 0 24 27 2 fact 18 2 f 20 2 f 6 2 an
s1 18 22 18 21 32 2 n 18 23 2 n 13 3 10 24 2 n 20 3 5 18 33 2 n 20 3 4 18 27 2 fact 18 31 2 f 22 19

constsym identsym x eqsym numbersym 5 commasy identsym y eqsym numbersym 6 commasy identsym x eqsym
numbersym 6 semicolonsym varsym identsym f commasy identsym n semicolonsym procsym identsym fact se
micolonsym varsym identsym ans1 semicolonsym beginsym identsym ans1 becomessym identsym n semicolonsy
m identsym n becomessym identsym n minussym numbersym 1 semicolonsym ifsym identsym n eqsym numbersym
0 thensym identsym f becomessym numbersym 1 semicolonsym ifsym identsym n gtrsym numbersym 0 thensym
callsym identsym fact semicolonsym identsym f becomessym identsym f multsym identsym ans1 semicolons
ym endsym semicolonsym beginsym readsym identsym n semicolonsym ifsym identsym n gtrsym numbersym 10
thensym identsym n becomessym numbersym 5 semicolonsym elsesym identsym n becomessym numbersym 4 semi
colonsym callsym identsym fact semicolonsym writesym identsym f endsym periodsym

Error 21: 'x' declared multiple times.
Michaels-MacBook-Pro-2:Desktop mike_b$
```





Line 8, Column 13

Tab Size: 4

### Plain Text

```
Michaels-MacBook-Pro-2:Desktop mike_b$
```

```
input.txt
1 const x = 5, y = 6;
2 var f, n, z, r;
3 procedure fact;
4   var ans1;
5   begin
6     ans1:=n;
7     n:= n-1;
8     if n = 0 then
9       f := 1;
10    if n > 0 then
11      call fact;
12
13    f:=f*ans1;
14  end;
15 begin
16  read ;
17  if n > 10 then
18    n := 5;
19  else
20    n := 4;
21
22  call fact;
23  write f
24 end.
25
```

```
Michaels-MacBook-Pro-2:Desktop mike_b$ ./a.out input.txt -l-v-a
symbol: x 1 0
symbol: y 1 0
symbol: f 2 0
symbol: n 2 0
symbol: z 2 0
symbol: r 2 0
symbol: fact 3 0
symbol: ans1 2 1
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
Lexeme List:
28 2 x 9 3 5 17 2 y 9 3 6 18 29 2 f 17 2 n 17 2 z 17 2 r 18 30 2 fact 18 29 2 ans1 18 21 2 ans1 20 2
n 18 2 n 20 2 n 5 3 1 18 23 2 n 9 3 0 24 2 f 20 3 1 18 23 2 n 13 3 0 24 27 2 fact 18 2 f 20 2 f 6 2 a
ns1 18 22 18 21 32 18 23 2 n 13 3 10 24 2 n 20 3 5 18 33 2 n 20 3 4 18 27 2 fact 18 31 2 f 22 19

constsym identsym x eqsym numbersym 5 commasy identsym y eqsym numbersym 6 semicolonsym varsym ident
sym f commasy identsym n commasy identsym z commasy identsym r semicolonsym procsym identsym fact
semicolonsym varsym identsym ans1 semicolonsym beginsym identsym ans1 becomessym identsym n semicol
sym identsym n becomessym identsym n minussym numbersym 1 semicolonsym ifsym identsym n eqsym numbers
ym 0 thensym identsym f becomessym numbersym 1 semicolonsym ifsym identsym n gtrsym numbersym 0 thens
ym callsym identsym fact semicolonsym identsym f becomessym identsym f multsym identsym ans1 semicolo
nsym endsym semicolonsym beginsym readsym semicolonsym ifsym identsym n gtrsym numbersym 10 thensym i
dentsym n becomessym numbersym 5 semicolonsym elsesym identsym n becomessym numbersym 4 semicolonsym
callsym identsym fact semicolonsym writesym identsym f endsym periodsym

Error 25: read or write must be followed by identifier.
Michaels-MacBook-Pro-2:Desktop mike_b$
```

```
input.txt
1 const x = 5, y = 6;
2 var if, n, z, r;
3 procedure fact;
4   var ans1;
5   begin
6     ans1:=n;
7     n:= n-1;
8     if n = 0 then
9       f := 1;
10    if n > 0 then
11      call fact;
12
13    f:=f*ans1;
14  end;
15 begin
16   read n;
17   if n > 10 then
18     n := 5;
19   else
20     n := 4;
21
22   call fact;
23   write f
24 end.
25
```

```
Michaels-MacBook-Pro-2:Desktop mike_b$ ./a.out input.txt -l-v-a
Error 27: 'if' is a reserved word.
Michaels-MacBook-Pro-2:Desktop mike_b$
```

```
input.txt
1 const x = 5, y = 6;
2 var f, n, z, r;
3 procedure fact;
4   var ans1;
5   begin
6     ans1:=n;
7     n:= n-1;
8     if n = 0 then
9       f := 1;
10    if n > 0 then
11      call var;
12
13    f:=f*ans1;
14  end;
15 begin
16   read n;
17   if n > 10 then
18     n := 5;
19   else
20     n := 4;
21
22   call fact;
23   write f
24 end.
25
```

```
Michaels-MacBook-Pro-2:Desktop mike_b$ ./a.out input.txt -l-v-a
symbol: x 1 0
symbol: y 1 0
symbol: f 2 0
symbol: n 2 0
symbol: z 2 0
symbol: r 2 0
symbol: fact 3 0
symbol: ans1 2 1
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
Lexeme List:
28 2 x 9 3 5 17 2 y 9 3 6 18 29 2 f 17 2 n 17 2 z 17 2 r 18 30 2 fact 18 29 2 ans1 18 21 2 ans1 20 2
n 18 2 n 20 2 n 5 3 1 18 23 2 n 9 3 0 24 2 f 20 3 1 18 23 2 n 13 3 0 24 27 29 18 2 f 20 2 f 6 2 ans1
18 22 18 21 32 2 n 18 23 2 n 13 3 10 24 2 n 20 3 5 18 33 2 n 20 3 4 18 27 2 fact 18 31 2 f 22 19

constsym identsym x eqsym numbersym 5 commasy identsym y eqsym numbersym 6 semicolonsym varsym ident
sym f commasy identsym n commasy identsym z commasy identsym r semicolonsym procsym identsym fact
semicolonsym varsym identsym ans1 semicolonsym beginsym identsym ans1 becomessym identsym n semicolon
sym identsym n becomessym identsym n minussym numbersym 1 semicolonsym ifsym identsym n eqsym numbers
ym 0 thensym identsym f becomessym numbersym 1 semicolonsym ifsym identsym n gtrsym numbersym 0 thens
ym callsym varsym semicolonsym identsym f becomessym identsym f multsym identsym ans1 semicolonsym en
dsym semicolonsym beginsym readsym identsym n semicolonsym ifsym identsym n gtrsym numbersym 10 thens
ym identsym n becomessym numbersym 5 semicolonsym elsesym identsym n becomessym numbersym 4 semicolon
sym callsym identsym fact semicolonsym writesym identsym f endsym periodsym

Error 28: identifier must follow call statement.
Michaels-MacBook-Pro-2:Desktop mike_b$
```



```
input.txt
1 const x = 5, y = 6;
2 var f, n, z, r;
3 procedure fact;
4   var ans1;
5   begin
6     ans1:=n;
7     n:= n-1;
8     if n = 0 then
9       f := 1;
10    if n > 0 then
11      call x;
12
13    f:=f*ans1;
14  end;
15 begin
16   read n;
17   if n > 10 then
18     n := 5;
19   else
20     n := 4;
21
22   call fact;
23   write f
24 end.
25
```

```
Michaels-MacBook-Pro-2:Desktop mike_b$ ./a.out input.txt -l-v-a
symbol: x 1 0
symbol: y 1 0
symbol: f 2 0
symbol: n 2 0
symbol: z 2 0
symbol: r 2 0
symbol: fact 3 0
symbol: ans1 2 1
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
symbol: 0 0
Lexeme List:
28 2 x 9 3 5 17 2 y 9 3 6 18 29 2 f 17 2 n 17 2 z 17 2 r 18 30 2 fact 18 29 2 ans1 18 21 2 ans1 20 2
n 18 2 n 20 2 n 5 3 1 18 23 2 n 9 3 0 24 2 f 20 3 1 18 23 2 n 13 3 0 24 27 2 x 18 2 f 20 2 f 6 2 ans1
18 22 18 21 32 2 n 18 23 2 n 13 3 10 24 2 n 20 3 5 18 33 2 n 20 3 4 18 27 2 fact 18 31 2 f 22 19

constsym identsym x eqsym numbersym 5 commasy identsym y eqsym numbersym 6 semicolonsym varsym ident
sym f commasy identsym n commasy identsym z commasy identsym r semicolonsym procsym identsym fact
semicolonsym varsym identsym ans1 semicolonsym beginsym identsym ans1 becomessym identsym n semicolon
sym identsym n becomessym identsym n minussym numbersym 1 semicolonsym ifsym identsym n eqsym numbers
ym 0 thensym identsym f becomessym numbersym 1 semicolonsym ifsym identsym n gtrsym numbersym 0 thens
ym callsym identsym x semicolonsym identsym f becomessym identsym f multsym identsym ans1 semicolonsy
m endsym semicolonsym beginsym readsym identsym n semicolonsym ifsym identsym n gtrsym numbersym 10 t
hensym identsym n becomessym numbersym 5 semicolonsym elsesym identsym n becomessym numbersym 4 semic
olonsym callsym identsym fact semicolonsym writesym identsym f endsym periodsym

Error 29: must call a procedure, not variable or constant.
Michaels-MacBook-Pro-2:Desktop mike_b$
```