

Note: the style of this code is very poor, but it illustrates the mechanism very well.

CODE FRAGMENT

```
int result;
sub fact(int n)
  int temp;
  if n<=1 result = 1;
  else
    temp = fact(n-1);
    result = n * temp;
  fi;
end;
```

→ **fact(3);**

IDENTIFIER TABLE

0	"result"
1	"fact"
2	"n"
3	"temp"

SCOPE STACK BEFORE EVALUATION OF FACT(3)

Static Scope	1	subroutine	Params: 2	Symbol Table:		Body:
				2 primitive int	3 primitive int	
	0	primitive int				

if

<=	id: 2:	const: 1
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=	id: 0:	const: 1
---	--------	----------

body

=	id: 3:	
---	--------	--

fn-call	id: 1:	
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=	id: 0:	
---	--------	--

params	
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*	id:2:	id:3:
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-	id:2:	const: 1
---	-------	----------