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	קלט	פלט

1)	func foo(x:real) return int
	{
	var a:int;
	a=23;
	if (a==23)
	a=10;
	else
	a=19;
	return 1+a;
	}
	proc Main()
	{
	var a,b : int;
	a=0;
	while (a<10){
	b=foo(3.14);
	a=a+b;
	
	}
	
	}
		foo:
		BeginFunc
		a = 23
		t0 = a == 23
		if not t0 Goto L1
		a = 10
		Goto L2
		L1: a = 19
		L2: t1 = 1 + a
		Return t1
		EndFunc
		Main:
		BeginFunc
		a = 0
		L3: t0 = a < 10
		if not t0 Goto L4
		PushParam 3.14
		t1 = LCall foo
		PopParams 8
		b = t1
		t2 = a + b
		a = t2
		Goto L3
		L4: EndFunc

2)	proc Main()
	{
	var a,b : int;
	
	if (a<10 || (a>b && b<0))
	{
	b=10;
	a=a+b;
	}
	}
		Main:
		BeginFunc
		t0 = a < 10
		t1 = t0
		if not t1 Goto L1
		Goto L3
		L1: t2 = b < a
		t3 = t2
		if not t3 Goto L2
		t4 = b < 0
		t3 = t4
		L2: t1 = t3
		L3: if not t1 Goto L4
		b = 10
		t5 = a + b
		a = t5
		L4: EndFunc

	קלט	פלט

3)	```
	proc foo(a:int)
	{
	a=20;
	}
	proc Main()
	{
	var a,b : int;
	
	while (a<10 || b<10)
	{
	if(a>10)
	{
	b=20;
	}
	else
	{
	foo(12);
	}
	}
	``
		``
		foo:
		BeginFunc
		a = 20
		EndFunc
		Main:
		BeginFunc
		L1: t0 = a < 10
		t1 = t0
		if not t1 Goto L2
		Goto L3
		L2: t2 = b < 10
		t1 = t2
		L3: if not t1 Goto L6
		t3 = 10 < a
		if not t3 Goto L4
		b = 20
		Goto L5
		L4: PushParam 12
		LCall foo
		PopParams 4
		L5: Goto L1
		L6: EndFunc
		``

4)	```
	proc foo(a:int)
	{
	a=20;
	}
	proc Main()
	{
	var a,b : int;
	
	while (a<10)
	{
	while(b<10)
	{
	b=20;
	foo(12);
	}
	}
	
	}
	
	}
	``
		``
		foo:
		BeginFunc
		a = 20
		EndFunc
		Main:
		BeginFunc
		L1: t0 = a < 10
		if not t0 Goto L4
		L2: t1 = b < 10
		if not t1 Goto L3
		b = 20
		PushParam 12
		LCall foo
		PopParams 4
		Goto L2
		L3: Goto L1
		L4: EndFunc
		``

	קלט	פלט

5)	proc Main()
	{
	var a:string[10];
	var x,y,z:real;
	
	y=x*4+z/2+4*y-5;
	
	a[2]='a';
	}
		Main:
		BeginFunc
		t0 = x * 4
		t1 = z / 2
		t2 = t0 + t1
		t3 = 4 * y
		t4 = t2 + t3
		t5 = t4 - 5
		y = t5
		t6 = a + 2
		t7 = *t6
		t6 = a
		EndFunc

6)	func foo(x,y,z:real) return real
	{
	return x*y+z*y;
	
	}
	proc Main()
	{
	var x,y,z:real;
	
	if(x>y || z>y)
	{
	x=1.2;
	y=x+1.8;
	}
	else
	{
	z=foo(x,y,z);
	}
	
	}
		foo:
		BeginFunc
		t0 = x * y
		t1 = z * y
		t2 = t0 + t1
		Return t2
		EndFunc
		Main:
		BeginFunc
		t0 = y < x
		t1 = t0
		if not t1 Goto L1
		Goto L2
		L1: t2 = y < z
		t1 = t2
		L2: if not t1 Goto L3
		x = 1.2
		t3 = x + 1.8
		y = t3
		Goto L4
		L3: PushParam z
		PushParam y
		PushParam x
		t4 = LCall foo
		PopParams 24
		z = t4
		L4: EndFunc

	קלט	פלט
| 7) | ```
func fee2(x:real) return real
{
return x*1.4;

}

func fee1() return char
{
var c:char;
c='a';
return c;
}

proc Main()
{
var x,y,z:real;
var c:char;

if(x>3.14)
{
x=1.2;
c=fee1();
}
else
{
x=fee2(x);
}

}
``` | ```
fee2:
BeginFunc
t0 = x * 1.4
Return t0
EndFunc
fee1:
BeginFunc
c = a
Return c
EndFunc
Main:
BeginFunc
t0 = 3.14 < x
if not t0 Goto L1
x = 1.2
t1 = LCall fee1
c = t1
Goto L2
L1: PushParam x
t2 = LCall fee2
PopParams 8
x = t2
L2: EndFunc
``` |