

Input:

```
func X2(a, b, c: int; c1:char) return bool  
{  
    var res:bool;  
{  
    var x, b:char;  
    var y: int;  
    b='&';  
    a=(y*7)/a-y;  
}  
    return res;  
}  
proc D33( i,j,k,x:int)  
{  
    func M2 (l, m, n:int) return bool  
{  
        var x, j: bool;  
        var k:char;  
        k='@';
```

```

    i=l+l;
    if((k=='*') || (x!=false) && ( l+m < i)) {
        x=l<m;
    }
    return x;
}
{
    var x:char;
    var k:bool;
    k=M2(5,i,j);
}
x=k;
}
func B52(i,j,k:int) return int
{
    func square(t:int) return int
    {
        var temp:int;
        temp=t*t;
        return temp;
    }
}

```

```
}  
  
var total:int;  
var bo:bool;  
bo=X2(i, j, k, '^');  
total=square(i+j+k);  
return total;  
}  
  
func F15() return int  
{  
    var s1 : string[100];  
    var s2 : string[100];  
    var i, j, cnt : int;  
    i=0;  
    j=0;  
    cnt=0;  
    while(i < |s1|) {  
        while(j < |s2| / 2) {  
            if(s1[i] == s2[j]) {  
                cnt=cnt*2;  
            }  
        }  
    }  
}
```

```

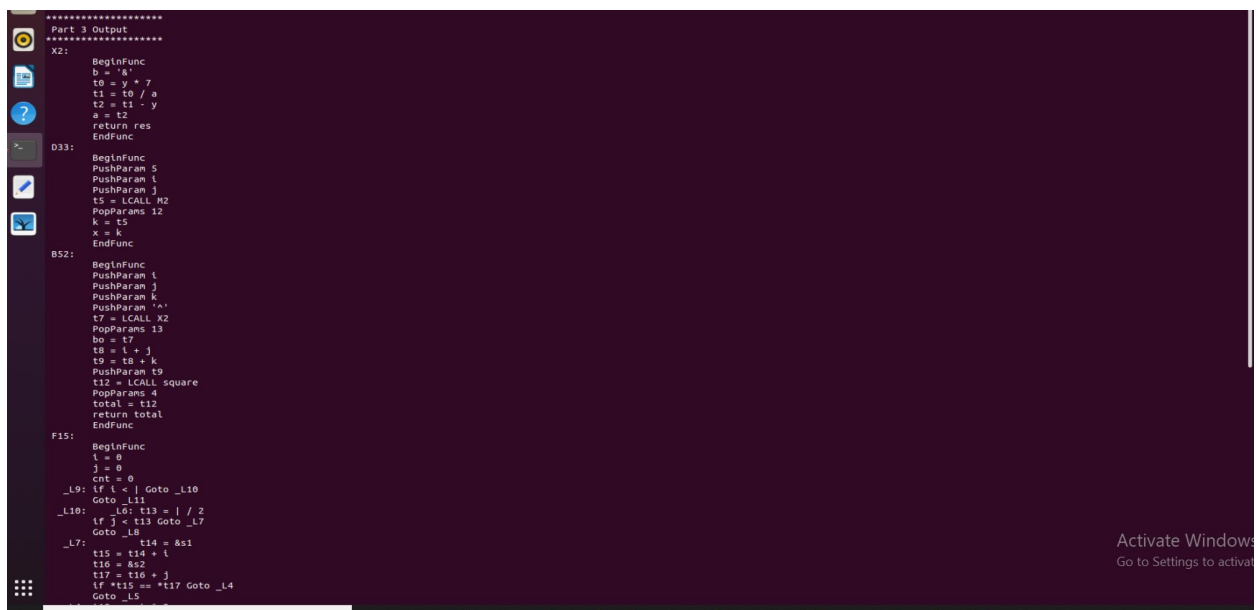
        j=j + 1;
    }
    i=i + 1;
}
return cnt;
}
func X21() return int
{
    {
        var x:int;
        var y:int*;
        x=5;
        y=&x;
        x=6;
        if( &x == y && ^y == x ) {
            ^y=9;
        }
        {
            var x:char*;
            var y: string[10];

```

```
var z: char;  
x=&y[5];  
z=^(x - 5);  
y="barfoo";  
{  
    var x:char;  
    var y:int*;  
    var z:char*;  
    var g:char;  
    /% y=&(1+3);  
        y=&x;  
        z=&(&(g)); %/  
    }  
}  
}  
return 0;  
}  
proc Main()  
{  
    var a:int;
```

```
a = F15();  
}
```

Output:



```
*****  
Part 3 Output  
*****  
X2:  
BeginFunc  
b = 'a'  
t0 = y * 7  
t1 = t0 / a  
t2 = t1 - y  
a = t2  
return res  
EndFunc  
D33:  
BeginFunc  
PushParam 5  
PushParam t  
PushParam j  
t5 = LCALL M2  
PopParams 12  
k = t5  
x = k  
EndFunc  
B52:  
BeginFunc  
PushParam t  
PushParam j  
PushParam k  
PushParam 'a'  
t7 = LCALL X2  
PopParams 13  
b0 = t7  
t8 = t + j  
t9 = t8 * k  
PushParam t9  
t12 = LCALL square  
PopParams 4  
total = t12  
return total  
EndFunc  
F15:  
BeginFunc  
i = 0  
j = 0  
cnt = 0  
_L9: if i < j Goto _L10  
Goto _L11  
_L10: _L6: t13 = i / 2  
if j < t13 Goto _L7  
Goto _L8  
_L7: t14 = 8s1  
t15 = t14 * i  
t16 = 8s2  
t17 = t16 * j  
if *t15 == *t17 Goto _L4  
Goto _L5
```

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```

_L4: t18 = cnt * 2
    cnt = t18
_L5: t19 = j + 1
    j = t19
    Goto _L6
_L8: t20 = i + 1
    i = t20
    Goto _L9
_L11: return cnt
EndFunc

X21:
    BeginFunc
    x = 5
    y = 8x
    x = 6
    if &x == y Goto _L12
    Goto _L14
_L12: if &y == x Goto _L13
    Goto _L14
_L13: &y = 9
    t21 = 8y
    t22 = t21 + 5
    x = t22
    z = "+"
    y = "barfoo"
    return 0
EndFunc

Main:
    BeginFunc
    t24 = LCALL F15
    PopParams 0
    a = t24
    EndFunc

```

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