Input Example

program foo ;
var i : **integer** ;
ssp 10; **sep** 7; **ujp** l_1;
function fact(n: **integer**): **integer**;
l_2: **ssp** 6; **sep** 9; **ujp** l_3;
begin l_3 :
    if $n = 1$
      lda a $2 - 2$ 5; **ind** i; **ldc** i 1; **equ** i; **fjp** l_4
      then $fact := 1$
      lda a $2 - 2$ 0; **ldc** i 1; **sto** i; **ujp** l_5 :
      else $fact := n * fact(n - 1)$ **fi**
      l_4: **lda** a $2 - 2$ 0; **lda** a $2 - 2$ 5; **ind** i;
      mst $2 - 1$; **lda** a $2 - 2$ 5; **ind** i; **ldc** i 1; **sub** i; **cup** 1 l_2
      mul i; **sto** i; l_5:
end; **retf**
begin l_1 :
    $i := fact(2)$
    lda a $1 - 1$ 9;
    mst $1 - 1$; **ldc** i 2; **cup** 1 l_2
    sto i
end. **stp**