```
Ty += (Ty in -> Ty)
15-1
          Expr += (Expr Expr ...)
          Prog = Definition ... Expr
          Definition = (define (id [id : Ty] ...) : Ty
                        expr)
                                              (ret (CX 177)
          (define (even? [: In+]): Bool
            (if (= i 0) tre (odd; (-i1)))
          (define (odd? [i: Int]) : Bool
           (if (=i 0) false (even? (-i1)))
          (even? 1000)
          T + (fun argon argn) & res (odd?) =
             if M+ fun : Ayo ... tyn > res Int > Bool
             and P + arg; : ty;
          - (program defs ... expr) iff
             To = E(id >> dom >> rang) ... 3 where

defs = (id (...:dom) irny)
             Po Hexpr: Fy
             To I defi 1 to (id)
          T + (define & (f [ao: tyo] ... [an:tyn]): res
             Mao Hotyo] ... [an Hoty : res
```

5-7 parse >>+	. 1	1	-7 expose	-> Flatter	> reg => patch
newforms	new	(but needed)			
			5071		
cells and hat	- 11	Class	ine (add) [x	: Tu+T): In	+ (+x1))
cally read-int	cally even		he (fit Lx		And the second s
21 1/0/ 10/			Ent (fx)		(1411) -11. 12.
cally # % rax	cally f				
read lovax as			12 adel)		
codeptr, and jump			= (fib S)	1231	
to it (indirect jump) addl					
		50	61))		
_ fon 1:	code				
_ Cun 2:	- role - ·				
- man!	-ode	7mil	3000		Name and August 1. do
move _ for 1, Olorax / _ For 1 (Plorip) frag					
	* Of vax			egonomorga, gonomi de escentra estra e Estra estra est	
LEAQ nad effective addr 64-bit					
7 7	1 adds	(4-bit	nia caración ainsamhannachthranach deamh e fhainn ach mhaich de glad Mall the de Mheisthe (Chaigeannach		
lad ette	thre				
ARGS: rdi	, rsi,	rex lucx	, 18, 19		
<u>Caller</u>	Callee	Contents	1		E
8 (% 16)		return addr		(60 E)	
0(% 160)		old rbp	callee-san	es (for E)	
-8 (% shp)		local I	calle	r	
- 8k (% rbp)		local k	caller-sa	es (for F)	
8n - 8(% rsp)	8n+8 (% rbp)	ang n +6	7 caller	o code	
O(% rsp)	16 (do rep)	arg 1+6	1000		
	8/9/1/2017	return addr	Callan		
	0 (% chp)	- old rbp	callee — callee -saves	(for F)	(-
	-8 (% rbp)	lona 1	callee -saves		2
	-8 (10 ())	16cal K			
1		EDCOL .			

15-5) expose: turn (vector e) Mto (alloc) (set!)					
(let (Cf 12]) f) > \$ f					
[] (define (f)) f > leag f(90rip), 9/0rax					
[(:ref x)					
(if x is a fun) I, tag name with!					
(:Function - ref x) => horrenduous					
(:refx))] 2. Look at Mand if					
Fon					
expose: exh => e => borken					
expose'! 2il3 exp >> e 3. track funs					
Compute a set of names					
globul funs					
(prog del., expr)					
=> (proy' def (define (main): r(expr) expr) there) 'main)					
C (C) flat					
(prog e) => (flat-prog vs flate)					
(prog dim m) => (flat prog fdim m)					
expr vs flat-e					
(mory argn-storage, argn var)					
(deline (add x))					
(movy Vordi, \$x)					
assume \$x is in &rll or -8(rbp)					
(set! the (app for are))					
(set ! This (app fun args)) => fun-stant					
AND ADDRESS OF THE PROPERTY OF					
args-stats The would be save caller-saves arg					
(indirect call (con-arg) restormaller + restor any stack (movy rax Ins)					
(movy rax Ins)					

