* 24 [1,2,3]expr := <number> | <name> | true | false type expr = (<name> <expr> <expr>) // two arg functions ENum of int (if <expr> <expr> <expr>) EBool of bool (let (<name> <expr>) <expr>) EId of string (+ <expr> <expr>) EIf of expr * expr * expr (< <expr> <expr>) (dict (chame > cexpr>) (chame (expr>)) ELet of string * expr * expr EPlus of expr * expr ELess of expr * expr | EApp of string * expr * expr | EDict of stong * expr * strig * expr def := (def <name> (<name> : <t> <name> : <t>) : <t> 1 EGet of expr * stry <expr>)

prog := def ... <expr>

t:= Nun | Bool | (x:T Y:T)

type def =

type typ = TNum | TBool | TDict of String * typ * String * typ

| DFun of string * string * typ * string * typ * typ * expr

(EDict(x1,e1,x2,e2) → ...

1 EGet (e,x) → ...

```
now to store types after te
let rec e_to_is (e : expr) (si : int) (env : tenv)/(defs : def list) =
 match e with
    | EGe+(e,x) ->
      let e-is = e-to-is cl/si env dets in
                                                                APPR
    ( match get-type with
                                                                                 NZ
           | T Dict (x1, -, x2, -) ->
              if x = x, then ["mor rax, [rax]"]
              else ["mov rax, [rax +8]"]
                                                                       63 bit 1
    |EDic+(x1, c1, x2, e2) -)
                                                                true 620's 10
      let el-is = e-to-is el si env defs in
                                                                      640'5
      let e7-is = e-to-is e2 (si +1) env defs in
       call alloc-diet
       address in rax
                                                char* x1 char* x2 Python
                           int64-t alloc-diet (m+64-t v1, in+64-t v2) [ (* i)
section .text
global our_code_starts_here
                                  do malloc, store VI, VZ
                                  return address;
our_code_starts_here:
                                  int main(int argc, char** argv) {
                                    int64_t result = our_code_starts_here(
                                                                             );
                                    print(result);
                                    return 0;
ret
```