```
(define, book, fun, tuple, alt})
  9 € [ N 3 - 8 N*]
 go (a) = 5 go)
Intuitively. 98+ is applied to an element in V, i.e.
(0,b), it first does runtime typechecking and finds out
whether 10 B a value of type 0. If not, 90x returns
a typeremor. <1, typeremor? If yes, on the other hand,
    casts b to a value b' of type or, and runs g on b'.
Thus, gor does type-testing and type-casting.
                                                              4) Here is the definition of I-I. We present only
some cases. Look at the treatbook for the complete defoution
    I-I & [ < and -> V vary -> V*]
                        often written as E
                            to comphasise two
                           It is the set of
                           I so I yell, <1, every, <1, type every?
                 (1, typeowor) if I to In = (0, 67 bu
                              not (3 6 s.t.
                         elve if IEIIn & $1, <1, enor, <1, typeremol
                 I.e. In
                b'(a)
```

```
More Succincity, we can write:
   Ie,e,Iη = (λf. (λδ. fω)) ( [Ee,Iη)) frut ( [Ee,Iη).
         = ( > Zo ... (> Zn-1.) | <3, <20, ..., Zn-1))
              ....) * (IeoI)
                         else <1, typeenor ) * [TeIn]
                  at least k+1 components.
  IO K EIU
       Iscumcase & of (eo, ..., en-1) In
  = (X(k.2). if k(n then (xf.f(2))fan* (IexI))
                           <1. typeremon) alt* (ITEIN)
  Ie+e, Iη = (χτ. (χτ. <0, ψ (<0, 1+τ'))) (Ie, Iη)
             ( TEODY )
  Ityperenor In = < h typerenor?
                                Itano In= <0,
```