Hazel PHI: 10-modules

how to read

800000	kinds	800080	signatures
008000	types (constructors)	008080	modules
000080	terms		

```
kind
                                              Туре
                                                                                                    kind of types
                                 \kappa
                                               S(\tau)
                                                                                                   singleton kind
                                                                                                         kind hole
                                              KHole
                                                                                     dependent function kind
                                              \Pi_{t::\kappa_1}.\kappa_2
                                                                                      dependent product kind
                                              \Sigma_{t::\kappa_1}.\kappa_2
         internal HTyp
                                                                                                    type variable
                                        ::=
                                               bse
                                               \lambda t :: \kappa.\tau
                                               \tau_1 \ \tau_2
                                              	au_1 \oplus 	au_2
                                               \langle \tau_1, \tau_2 \rangle
                                               \pi_1 \tau
                                               \{lab_1 \hookrightarrow \tau_1, \dots lab_n \hookrightarrow \tau_n\}
               base type
                                        ::=
                                               Int
                                bse
                                              Float
                                               Bool
           HTyp BinOp
                                 \oplus
                                        ::=
                                               \times
                                               \rightarrow
                                              mod.lab
                                               (\tau)
    internal expression
                                 \delta
                                        ::=
                                               \verb|module| m = mod in \delta
                                               module m:: siq = mod in \delta
                                               signature s = siq in \delta
                                               mod.lab
                                                                                      module term projection
                                               elided
                signature
                                                                                              signature variable
                                siq
                                        ::=
                                               \{sdecs\}
                                                                                            structure signature
                                                                                               functor signature
                                              \Pi_{m::sig_1}.sig_2
                  module
                                                                                                module variable
                               mod
                                        ::=
                                              m
                                                                                                         structure
                                               \{sbnds\}
                                               \lambda m :: sig.mod
                                                                                                            functor
                                               mod_1 \ mod_2
                                                                                            functor application
                                               mod.lab
                                                                                         submodule projection
    structure bindings
                              sbnds
                                               sbnd, sbnds
signature declarations sdecs
                                               \epsilon
                                        ::=
                                               sdec, sdecs
```