

```
1-2/ Ro:
                  program info
            P
            e = mumber | (-e) | (+ e e) | (real)
 " return
                 17 +
                      nead() + 42; "
                  (- (+ 17 (+ (read) 42)))
    (program
                               read
                              42
                 17
                                     A (E1, E1) { rehm new Add(1, n), ];
    new Program ( NULL, new Neg ( new Add ( new Num (17),
                                                non Add ( new Read (),
            : into-ptr
                                                         new Mm (42)))
    Program
                            Expr >> Prog
    Neg
             Expn
                                      Expr
    Add
              Expr
                           Expr
                                      Expre
    Read
                                      Expr
    Num 1
                Mt
                                     Expr
        (program
                                               interp : Ro
                    e )
                           = interp (e)
interp
Menp
        (Num
                               5
                               -1 * mterp (e)
        ( Neg
wher p
                      1
in terp
         (Ald
                 e, er)
                              interp (ei) + interp (ez)
Merp
        [ Read
                             ask He user for a number
          (+ (rad)
                         (- (read)))
class Expr {
                                class Add {
                                  Expr x lhs , -hs;
 virtual int sheep () = 0;3
                                   mt mterp (1)
                                        rehm the 200kepp) + the -200kerpl); }
```



