```
In [1]:
                1 print("helo")
               [1] "helo"
 In [2]:
                1 print(23.9+11)
               [1] 34.9
In [3]:
                  mean(1:5)
              3
In [5]:
                   help("mean")
In [10]:
                   apple <- c('red','blue','orange')</pre>
In [7]:
                1
                   apple
              'red'
                    'blue'
                          'orange'
In [8]:
                1 print(class(apple))
               [1] "character"
In [12]:
                   list1 <- list(c(2,5,3),21.3,sin)
In [13]:
                1
                  list1
              1. 2 5 3
              2. 21.3
                 .Primitive("sin")
In [14]:
                1 M = matrix(c('a','b','b','c','b','a'),nrow=2,ncol=3,byrow=TRUE)
```

```
In [15]:
                 1
                    Μ
                 2
                a b b
                c b a
In [16]:
                    a <- array(c('green', 'yellow'), dim=c(2,3,3))</pre>
In [18]:
                 1 print(a)
                 , , 1
                             [,2]
                [1,] "green" "green" "green"
                [2,] "yellow" "yellow" "yellow"
                , , 2
                     [,1]
                             [,2]
                                     [,3]
                [1,] "green" "green" "green"
                [2,] "yellow" "yellow" "yellow"
                , , 3
                     [,1]
                             [,2]
                                     [,3]
                [1,] "green" "green" "green"
                [2,] "yellow" "yellow" "yellow"
In [19]:
                     apple_colors <- c('green','green','yellow','red','red','red')</pre>
In [20]:
                 1
                    apple_colors
               'green'
                       'green' 'yellow' 'red' 'red' 'red'
In [21]:
                    factor_apple <- factor(apple_colors)</pre>
                 1
In [22]:
                 1
                    factor_apple
                      green yellow red red red
               ▶ Levels:
```

```
In [23]:
                   v \leftarrow c(2,5.5,6)
                 1
                 2
                   t<-c(8,3,4)
                 3
                   print(v+t)
                 4
                    print(v-t)
                    print(v*t)
                 5
                [1] 10.0 8.5 10.0
                [1] -6.0 2.5 2.0
                [1] 16.0 16.5 24.0
In [28]:
                 1 v <- readline()</pre>
                 2 v <- strsplit(v," ")</pre>
                3 2 4 5 1
In [29]:
                 1
               1. '3' '2' '4' '5' '1'
In [30]:
                 1
                    class(v)
               'list'
In [32]:
                    v <- c(v)
In [33]:
                 1
               1. '3' '2' '4' '5' '1'
In [34]:
                    class(v)
               'list'
In [35]:
                    class(c(v))
               'list'
```

```
In [38]:
                   x <- readline()
                 2
                    x <- as.integer(v[[1]])</pre>
                2 3 4 1
In [39]:
                 1
                    Χ
               3 2 4 5 1
In [40]:
                    class(v)
               'list'
In [41]:
                 1 class(x)
               'integer'
In [49]:
                    for(i in 1:length(x)){
                 1
                 2
                         print(x[i])
                 3
                    }
                [1] 3
                [1] 2
                [1] 4
                [1] 5
                [1] 1
           Type \it Markdown and LaTeX: \it \alpha^2
```