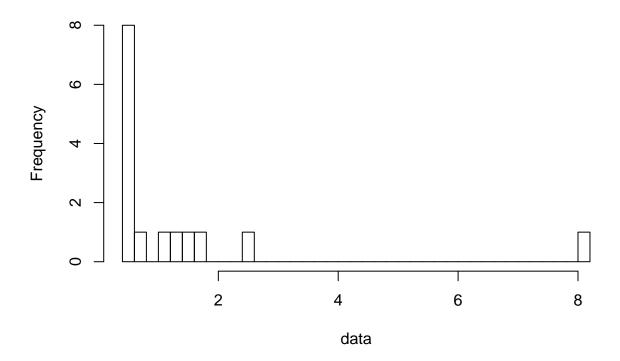
## Histogram of data



```
l = 1/mean(data)

F_inv = function(x) {
    return (x/(1-x))
}

F_x = function(x) {
    return (x/x+1)
}

data_n=length(data)
p = 0.35
pi_bin = c(p, p, 1-2*p)
pi = c(0, p, 2*p, 1)
x_bin = F_inv(pi)
o = NULL

n = length(pi)
for (i in 2:n) {
```

```
num = sum(data>x_bin[i-1] & data <x_bin[i])</pre>
 o = c(o, num)
n_pi = data_n*pi_bin
x_bin
## [1] 0.0000000 0.5384615 2.3333333
                                           Inf
## [1] 7 6 2
pi_bin
## [1] 0.35 0.35 0.30
n_pi
## [1] 5.25 5.25 4.50
discrepancy = function(e, o) {
 return (sum(((e-o)^2)/e))
e = pi_bin*data_n
d = discrepancy(e, o)
## [1] 2.079365
pval = function(d, k) {
 prob = 1 - pchisq(d, k)
 return (prob)
}
p = pval(d, 2)
p
```

## [1] 0.3535669