## Minimal example

Case 1: Command redundant does more than just removing redundant inequalities

```
library(rcdd)
## If you want correct answers, use rational arithmetic.
## See the Warnings sections in help pages for
       functions that do computational geometry.
a1 =
 rbind(c("1" ,"0" , "0" ),
       c("-1", "0", "0"),
c("1", "0", "0"),
c("-1","0", "0"))
b1 = c("1/2", "-1/2", "1", "0")
h_rep = makeH(a1,b1)
h_rep
      [,1] [,2] [,3] [,4] [,5]
## [1,] "0" "1/2" "-1" "0" "0"
## [2,] "0" "-1/2" "1" "0"
## [3,] "0" "1"
                    "-1" "0"
                              "0"
                    "1" "0"
## [4,] "0" "0"
                             "0"
## attr(,"representation")
## [1] "H"
h_rep_non_redundant = redundant(h_rep)
h_rep_non_redundant$output
        [,1] [,2] [,3] [,4] [,5]
## [1,] "1" "1/2" "-1" "0" "0"
## attr(,"representation")
## [1] "H"
```

Case 2: Impossible equalities

```
a1 =
 rbind(c("1", "0", "0"),
c("-1", "0", "0"),
       c ("1", "0", "0"),
       c ("-1" ,"0" , "0" ))
b1 = c("1/2", "-6/10", "1", "0")
h_{rep} = makeH(a1,b1)
h_rep
      [,1] [,2]
                   [,3] [,4] [,5]
## [1,] "0" "1/2" "-1" "0" "0"
## [2,] "0" "-6/10" "1" "0" "0"
## [3,] "0" "1" "-1" "0" "0"
## [4,] "0" "0"
                "1" "0" "0"
## attr(,"representation")
## [1] "H"
h_rep_non_redundant = redundant(h_rep)
h_rep_non_redundant$output
## [,1] [,2] [,3] [,4] [,5]
## [1,] "1" "1/2" "-1" "0" "0"
## [2,] "1" "-3/5" "1" "0" "0"
## attr(,"representation")
## [1] "H"
```