Giapetto's Woodcarving Problem

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```r
library(lpSolve)
obj.fun <- c(3, 2)

constr <- matrix(c(2, 1, 1, 1, 0, -1, 1, 0, -1, 0), ncol = 2, byrow=
                    TRUE)

constr.dir <- c("<=", "<=", "<=", "<=", "<=")

rhs <- c(100, 80, 0, 40, 0)

prod.sol <- lp("max", obj.fun, constr, constr.dir, rhs, compute.sens = TRUE)
```