```
allRolls :: DiceChoice
                                                                    allRolls :: DiceChoice
              -> (DiceVals, Integer)
                                                                             -> DiceVals
                                                                             -> Integer
03
              -> [ (DiceVals. Integer) ]
                                                                             -> [ (DiceVals, Integer) ]
04
     allRolls choices (vs. n) = case pop choices vs of
                                                                    allRolls choices vs n = case pop choices vs of
05
       Nothing -> [ ([], n-1) ]
                                                                       Nothing -> [ ([], n-1) ]
06
07
       Just ((chosen. v). (choices. vs)) ->
                                                                       Just ((chosen. v). (choices. vs)) ->
         allRolls choices (vs. error "Didn't expect to use"
                                                                        allRolls choices vs (error "Didn't expect to use")
08
           >>= \(roll, ) -> [ (d:roll, n-1)
                                                                          >>= \(roll, ) -> [ (d:roll, n-1)
09
              d`<- roTlList l
                                                                            I d <- roTlList l
             where
                                                                            where
               rollList = if chosen then [v] else [ 1..6 ]
                                                                              rollList = if chosen then [v] else [ 1..6 ]
     example =
                                                                    example =
                                                                      let diceChoices = [ False. True. True, False, False
       let diceChoices = [ False. True. True, False, False
15
16
                                                                           diceVals = [6, 4, 4, 3, 1]
           diceVals = [6.4, 4.3, 1]
       in mapM print $ allRolls diceChoices (diceVals. 2)
                                                                      in mapM print $ allRolls diceChoices diceVals 2
```