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# Uniform distribution example

# generate 100 random values from the uniform distribution
y = runif(100)

# create a check variable to determine whether the ys fall into the desired range
check = (y<.5) & (y>.2)

# summarize the check values into a table
table(check)

# determine the proportions for the table
prop.table(table(check))

# logical values can be interpreted as numbers, where FALSE = 0 and TRUE = 1
# so, we can use them in mathematical operations
# sum will tell how many TRUEs there are, mean will give the proportion of TRUEs

sum(check)
mean(check)
```