

Funciones generadas

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Un sistema de manufactura tiene cinco eslabones.

- Llegada del cliente **LC**
- Asignación de token **TKN**
- Separación de documentación técnica y vehículo **SPLIT**
- Revisión Técnica del Vehículo **RTO**
- Revisión de documentación vehículo y chofer **RD** (no se inicia hasta que se hayan acumulado 10 expedientes)
- Conformación del Informe y sticker en chasis **MERGE**
- Salida de la planta **OUT**

Ejercicio

- 1- Explícite el sistema según la metodología de Klir
- 2- Comparelo usando la misma metodología con el proceso del Comedor Universitario
- 3- Realizar un diagrama Klir Nivel 1

Ejercicio

Haga un análisis exploratorio de los datos de tiempo de atención y longitud de colas en el proceso utilizando los datos de Nivel Klir 2 disponibles en:

Salidas por minuto

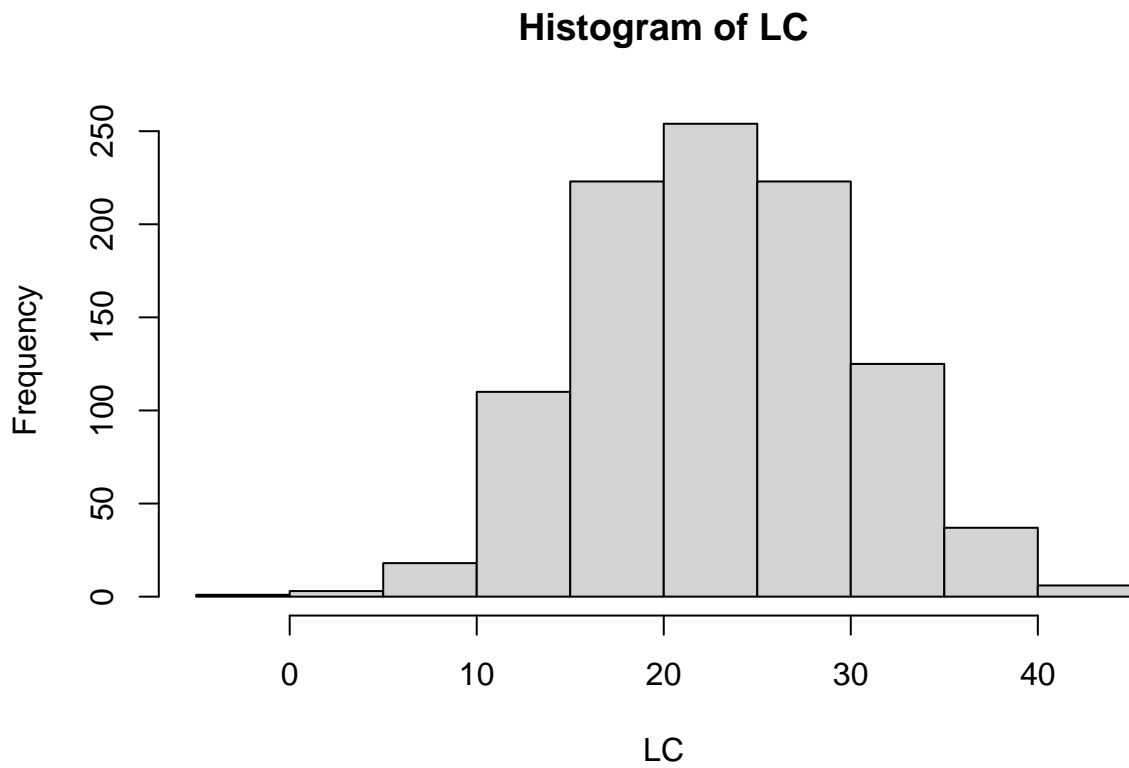
Ejercicio

¿Cuántos camiones al mes se pueden atender?

¿Qué cantidad de personas necesitaría el sistema?

Si el precio del servicio es de U\$D 6 , ¿Que rentabilidad tendría el sistema?

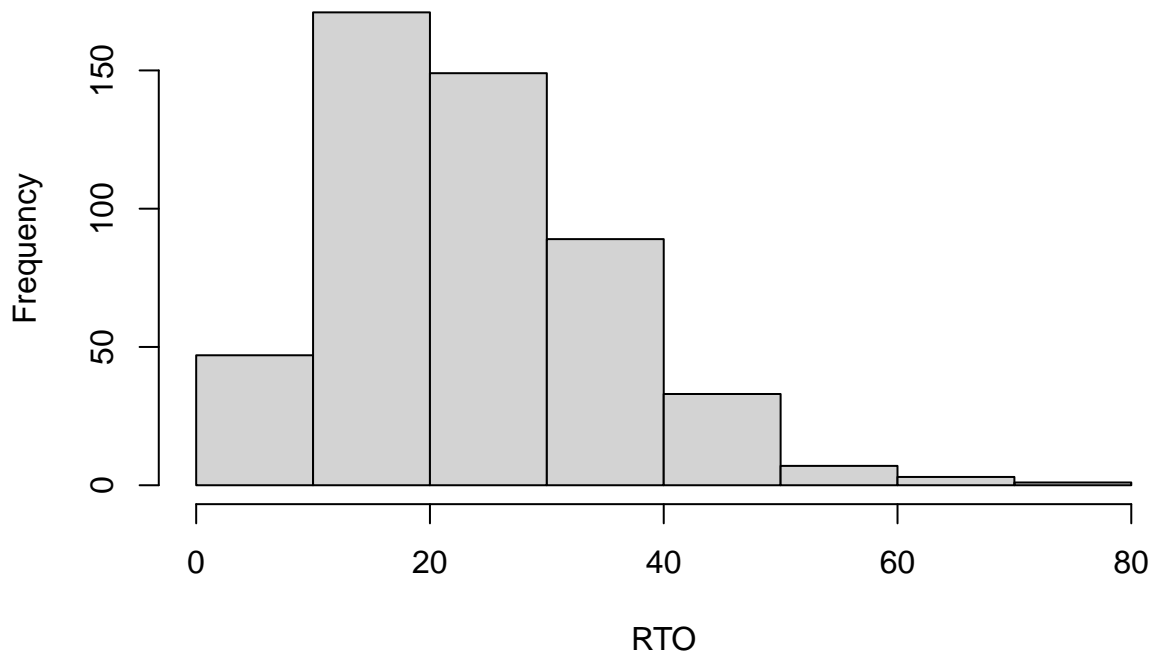
Datasets



```
## Warning in write.csv2(LC, file = "LC.csv", sep = ";", dec = ","): attempt to set  
## 'sep' ignored
```

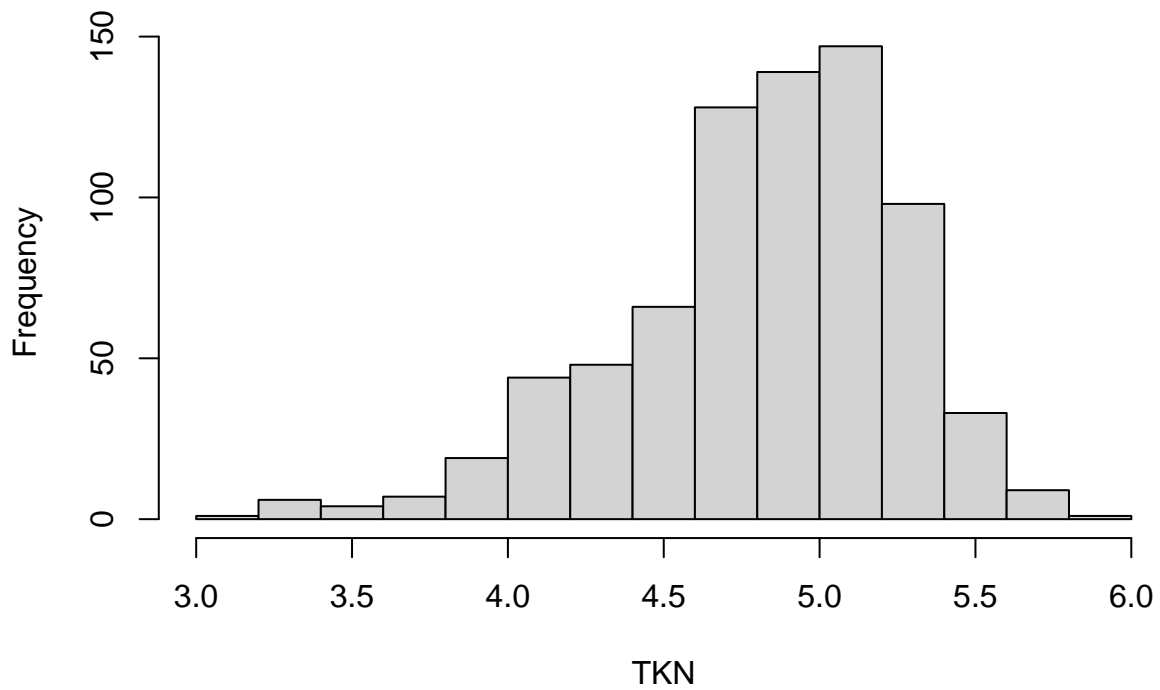
```
## Warning in write.csv2(LC, file = "LC.csv", sep = ";", dec = ","): attempt to set  
## 'dec' ignored
```

Histogram of RTO



```
## Warning in write.csv2(RTO, file = "RTO.csv", sep = ";", dec = ","): attempt to  
## set 'sep' ignored  
## Warning in write.csv2(RTO, file = "RTO.csv", sep = ";", dec = ","): attempt to  
## set 'dec' ignored
```

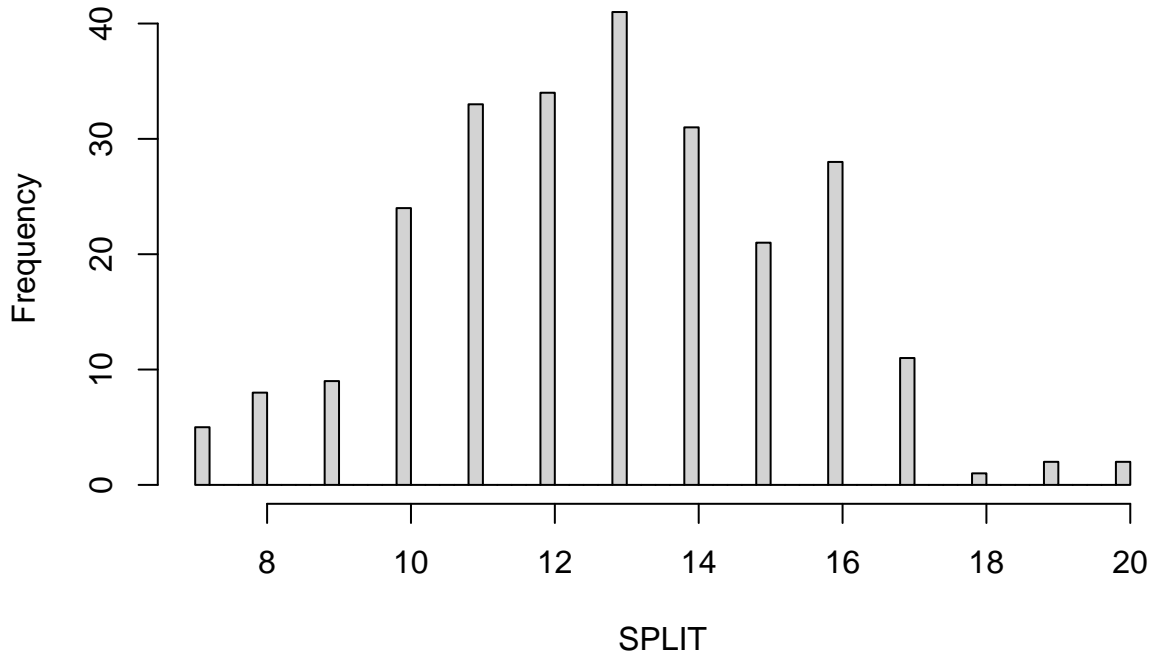
Histogram of TKN



```
## Warning in write.csv2(TKN, file = "TKN.csv", sep = ";", dec = ","): attempt to
## set 'sep' ignored
```

```
## Warning in write.csv2(TKN, file = "TKN.csv", sep = ";", dec = ","): attempt to
## set 'dec' ignored
```

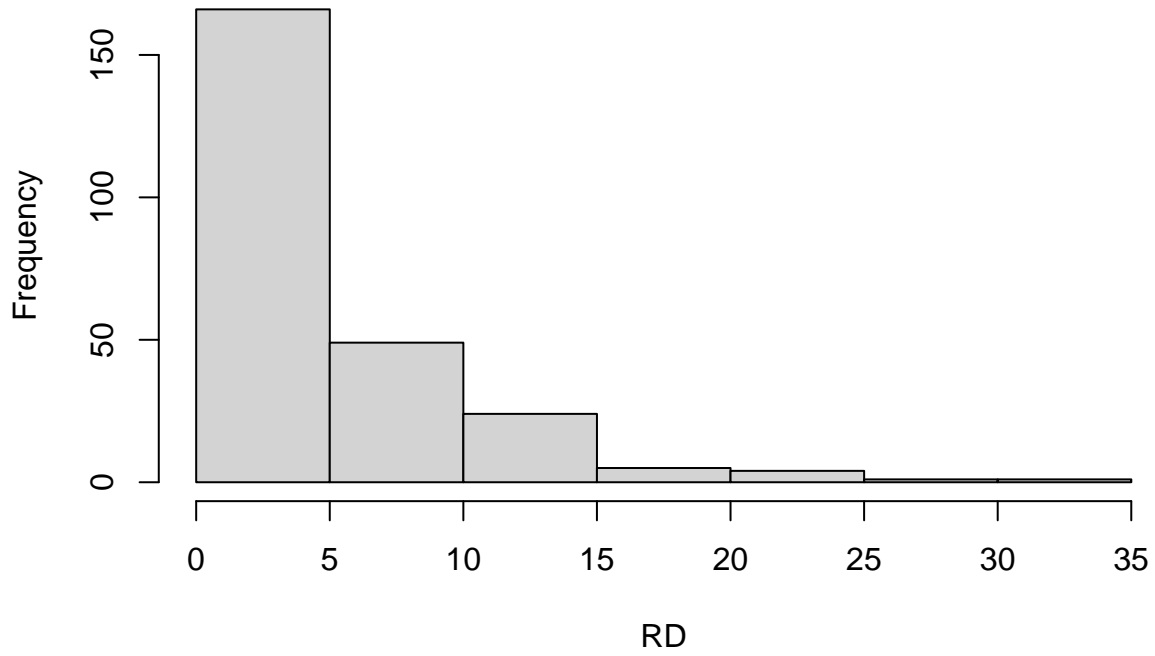
Histogram of SPLIT



```
## Warning in write.csv2(SPLIT, file = "SPLIT.csv", sep = ";", dec = ","): attempt
## to set 'sep' ignored
```

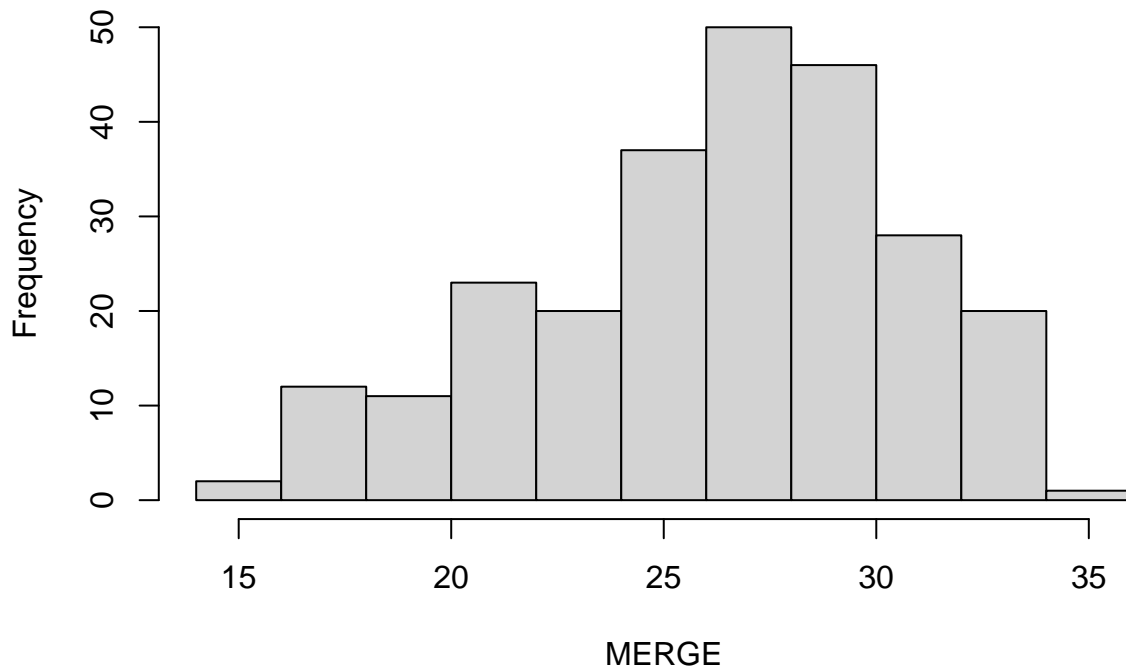
```
## Warning in write.csv2(SPLIT, file = "SPLIT.csv", sep = ";", dec = ","): attempt
## to set 'dec' ignored
```

Histogram of RD



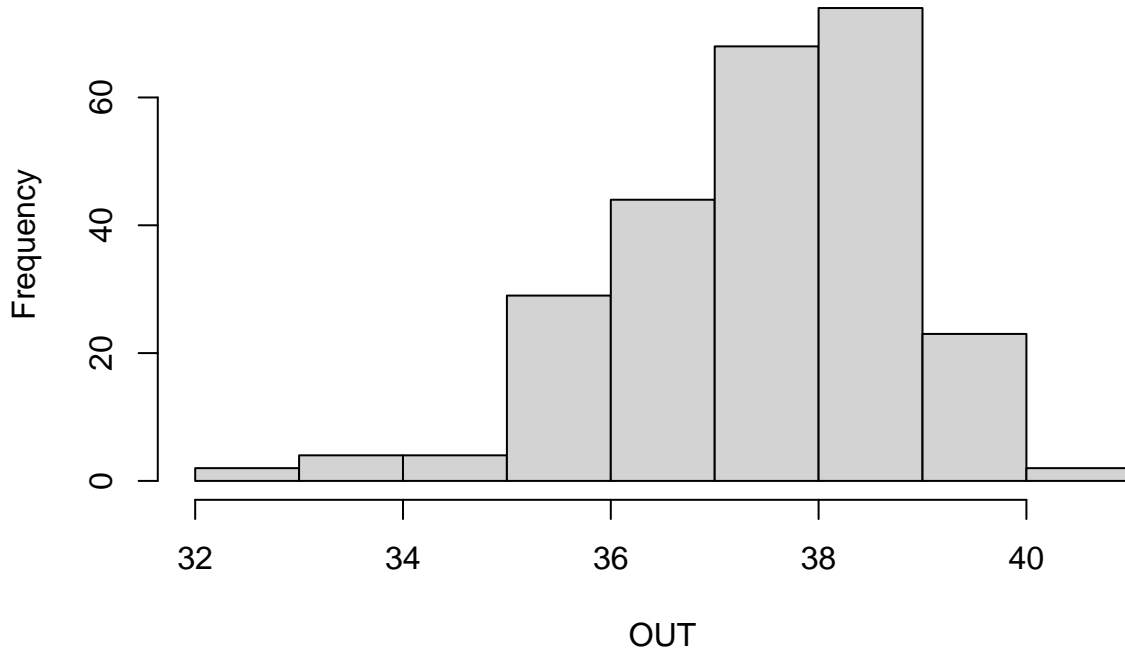
```
## Warning in write.csv2(RD, file = "RD.csv", sep = ";", dec = ","): attempt to set  
## 'sep' ignored  
## Warning in write.csv2(RD, file = "RD.csv", sep = ";", dec = ","): attempt to set  
## 'dec' ignored
```

Histogram of MERGE



```
## Warning in write.csv2(MERGE, file = "MERGE.csv", sep = ";", dec = ","): attempt
## to set 'sep' ignored
## Warning in write.csv2(MERGE, file = "MERGE.csv", sep = ";", dec = ","): attempt
## to set 'dec' ignored
```

Histogram of OUT



```
## Warning in write.csv2(OUT, file = "OUT.csv", sep = ";", dec = ","): attempt to
## set 'sep' ignored
## Warning in write.csv2(OUT, file = "OUT.csv", sep = ";", dec = ","): attempt to
## set 'dec' ignored
```

Anexo

Algunas distribuciones de probabilidad en R-Cran

Distribuciones discretas:

Distribución	Nombre en R
Binomial	binom
Poisson	pois
Geométrica	geom
Hipergeométrica	hyper

Distribuciones continuas:

Distribución	Nombre en R
Uniforme	unif
Normal	norm
t-Student	t

Distribución	Nombre en R
F-Fisher	F
Chi-cuadrado	chisq
Exponencial	exp
Gamma	gamma
Weibull	weibull
W de Wilcoxon	wilcox
Triangular (biblioteca extraDist)	triang
Logística	logis
Beta (extraDist)	Beta
Laplace (extraDist)	Laplace
