

Guia 4

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Preparamos el entorno.

Limpiamos los registros y seteamos el directorio de trabajo.

```
rm(list=ls())
```

Sobre monedas.

Ejercicio 1

Item a)

Definimos una función que devuelva el lanzamiento al azar de una moneda equilibrada, con 1=cara, 0=ceca.

```
cara_ceca=function(){  
  sample(c(0,1),1)  
}
```

Como lo que queremos es una función que simule un lanzamiento, no hace falta definir ningún input para la función.

Item b)

Como la moneda es equilibrada en N_rep lanzamientos esperaríamos obtener $N_rep/2$ caras.

Item c)

Veamos si esto efectivamente ocurre. Definimos primero una función que simule N_rep lanzamientos

```
n_lanzamientos=function(N_rep){  
  resultado=c()  
  for(i in (1:N_rep)){  
    resultado=c(resultado,cara_ceca())  
  }  
  resultado  
}
```

Veamos cuántos 1 obtenemos en el resultado de 1000 lanzamientos.

```
muchas_repeticiones=n_lanzamientos(1000)  
frecuencia=length(which(muchas_repeticiones==1))  
frecuencia
```

```
## [1] 493
```

```
frecuencia_relativa=frecuencia/1000  
frecuencia_relativa
```

```
## [1] 0.493
```

Ahora veamos cuántos 1 obtenemos en varios experimentos de 1000 lanzamientos. Hagamos 10 lanzamientos y veamos qué obtenemos.

```
caras_obtenidas=c()
for (i in (1:10)){
  x=n_lanzamientos(1000)
  caras_obtenidas=c(caras_obtenidas,length(which(x==1)))
}
caras_obtenidas
```

```
## [1] 505 504 528 499 512 498 560 479 498 497
```

Si bien no obtuvimos exactamente 500, rondamos ese valor en cada experimento.

Ejercicio 2

Item a)

Es nuestra función `n_lanzamientos()` del item c) del ejercicio anterior.

Item b)

Es nuestra función `caras_obtenidas()` del item c) del ejercicio anterior.

Ejercicio 3

Item a)

```
perseverancia_cara=function(){  
  N_rep=1  
  while (cara_ceca() != 1) {  
    N_rep=N_rep+1  
  }  
  N_rep  
}
```

Como la función simula lanzamientos, no precisa ningún input.

Podríamos modificarla un poco para que el input que toma sea cara o ceca según que perseverancia estamos buscando. Digamos

```
perseverancia=function(lado_moneda){  
  N_rep=1  
  while (cara_ceca() != lado_moneda) {  
    N_rep=N_rep+1  
  }  
  N_rep  
}
```

Item b)

No entiendo qué hay que hacer, la función perseverancia (que igual no existe, existe perseverancia_cara) devuelve una cantidad de lanzamientos entonces no sé que sería ejecutar perseverancia a lo largo de 1000 repeticiones, o sea tengo que ejecutar perseverancia 1000 veces? Es confuso que llame N_rep a estas repeticiones porque N_rep antes lo usamos para cantidad de lanzamientos pero acá pareciera (si entendí bien) cantidad de repeticiones de la función. Vamos a resolver eso, ejecutar 1000 veces la función perseverancia cara. Más aún, vamos a definir como antes una función para ejecutar n veces esta perseverancia

```
n_perseverancia_cara=function(n){  
  resultado=c()  
  for(i in (1:n)){  
    resultado=c(resultado,perseverancia_cara())  
  }  
  resultado  
}
```

Como entiendo bien el ejercicio no sé respecto de qué cantidad tengo que dividir para calcular la frecuencia relativa.

Algo que podríamos hacer (pero no lo voy a hacer) es modificar la función perseverancia_cara para que nos devuelva la perseverancia de cara propiamente dicho y también la cantidad total de lanzamientos que se realizaron en esa ejecución de la función y la frecuencia relativa sería la perseverancia/lanzamientos_totales.

Sólo voy a calcular el promedio del resultado de n_perseverancia_cara(1000)

```
promedio=sum(n_perseverancia_cara(1000))/1000  
promedio
```

```
## [1] 1.987
```

Éxitos y fracasos.

El comando *runif*(*n,min,max*) devuelve *n* desviaciones aleatorias de una distribución uniforme en el intervalo $[\text{min},\text{max}]$. O sea *n* muestras aleatorias de valores en $[\text{min},\text{max}]$.

Ejercicio 4

Item a)

```
exito_fracaso=function(p){  
  as.integer(runif(1) >= 1-p)  
}
```

Otra forma

```
exito_fracaso_2=function(p){  
  as.integer(runif(1) <= p)  
}
```

Digamos, la idea es que el `runif(1)` caiga en el intervalo $[0,p]$, con lo cual es mas intuitivo tal vez pedir que la muestra aleatoria uniforme en el $[0,1]$ sea menor o igual a p (aunque es lo mismo que pedir que sea mayor a $1-p$, por eso las dos formas).

Otra forma es usar `sample()`

```
exito_fracaso_3=function(p){  
  as.integer(sample(c(0,1),1,prob=c(1-p,p)) == 1)  
}
```

Item b)

La frecuencia dependerá de p . Si $p=0.5$ entonces en N_rep experimentos esperaría obtener $N_rep/2$ éxitos. En general, esperaría obtener $p*N_rep$ éxitos.

Item c)

Definimos primero una función que simula N_rep experimentos `exito_fracaso(p)` y devuelve un vector con los resultados obtenidos, con lo cual precisa dos inputs: N_rep y p .

```
n_experimentos=function(N_rep,p){  
  for (i in (1:N_rep)){  
    resultado_bis=c()  
    resultado_bis=c(resultado_bis,exito_fracaso(p))  
  }  
  resultado_bis  
}
```

Ahora simulamos $N_rep=1000$ experimentos `exito_fracaso(0.8)` y guardamos las observaciones.

```
muchas_repeticiones_bis=n_experimentos(1000,0.8)
```

Calculemos la frecuencia y frecuencia relativa del éxito

```
frec_exito=length(which(muchas_repeticiones_bis==1))  
frec_exito
```

```
## [1] 1
```

```
frec_rel_exito=frec_exito/1000  
frec_rel_exito
```

```
## [1] 0.001
```

Ejercicio 5

Item a)

Es nuestra función `n_experimentos(n,p)` del item c) del ejercicio anterior.

Item b)

```
cuantos_exitos=function(N_rep,p){  
  x=n_experimentos(N_rep,p)  
  length(which(x==1))  
}
```

Ejercicio 6

Item a)

Definimos una función que devuelve la cantidad `N_rep` de experimentos necesarios hasta obtener el primer éxito

```
perseverancia_exito=function(p){  
  N_rep=1  
  while(exito_fracaso(p)!=1){  
    N_rep=N_rep+1  
  }  
  N_rep  
}
```

Como el experimento depende de la probabilidad p , esa probabilidad debe ser ingresada como input de la función.

Item b)

En primer lugar definimos una función que devuelve el vector de resultados de n ejecuciones de la función `perseverancia_exito(p)`.

```
n_perseverancia_exito=function(n,p){  
  resultado=c()  
  for(i in (1:n)){  
    resultado=c(resultado,perseverancia_exito(p))  
  }  
  resultado  
}
```

Ejecutamos la función `perseverancia_exito` 1000 veces para $p=0.8$. Esto es aplicar `n_perseverancia_exito(1000,0.8)`

```
muchas_perseverancia_exito=n_perseverancia_exito(1000,0.8)
```

Calculemos la frecuencia relativa a cada valor (contado con repeticiones) de `muchas_perseverancias`. Devolvemos el resultado como un vector de listas donde el nombre de cada lista es el número i de la iteración, es decir el valor que toma cada componente de `muchas_perseverancias`.

```
aux=c()  
for(i in muchas_perseverancia_exito){  
  aux=c(aux,list(i=sum(muchas_perseverancia_exito==i)/1000))  
}  
frec_muchas_perseverancia_exito=unique(c(aux))  
frec_muchas_perseverancia_exito
```

```
## [[1]]  
## [1] 0.15  
##  
## [[2]]  
## [1] 0.811  
##  
## [[3]]  
## [1] 0.007  
##  
## [[4]]  
## [1] 0.032
```

Por último calculamos el promedio de `muchas_perseverancias`.


```
promedio_muchas_perseverancia_exito=sum(muchas_perseverancia_exito)/1000
promedio_muchas_perseverancia_exito
```

```
## [1] 1.235
```

Item c)

Repetimos el item anterior para la grilla siguiente

```
grilla=seq(0.01,0.99,by=0.02)
```

De nuevo, devolvemos un vector de listas donde el nombre de cada lista es la probabilidad respecto de la cual estamos realizando los 1000 experimentos y cuyo valor son los 1000 experimentos.

```
resultado_grilla=c()
for (i in grilla){
  resultado_grilla=c(resultado_grilla,list(n_perseverancia_exito(1000,i)))
}
names(resultado_grilla)=paste('p=',grilla)
resultado_grilla
```

```
## $`p= 0.01`
## [1] 65 97 235 83 34 262 63 136 77 26 168 5 24 132 75 23 1 101
## [19] 84 97 7 30 24 80 105 252 4 237 28 40 11 12 131 20 121 70
## [37] 34 164 53 5 419 28 1 72 25 150 6 68 14 165 126 54 118 4
## [55] 59 77 86 599 48 287 160 4 72 20 20 60 8 21 143 200 8 76
## [73] 76 158 124 6 180 60 13 21 178 284 62 273 77 26 11 29 185 233
## [91] 20 105 172 222 328 47 184 98 116 25 5 37 50 9 118 88 9 134
## [109] 114 55 125 129 271 2 1 40 353 45 17 78 144 20 207 73 2 63
## [127] 130 123 113 5 16 17 268 10 138 388 151 6 6 79 222 56 45 87
## [145] 7 274 79 96 354 117 197 73 29 176 43 87 33 319 204 82 10 21
## [163] 89 42 371 255 15 71 138 27 152 76 128 236 178 83 113 200 44 355
## [181] 34 82 389 42 324 28 85 131 126 85 29 18 1 179 206 33 92 55
## [199] 14 30 60 344 54 235 12 16 162 107 39 19 7 27 138 25 109 54
## [217] 49 17 253 17 58 77 74 209 202 46 44 237 41 31 15 39 59 188
## [235] 51 160 8 40 174 44 108 19 109 2 13 15 140 37 12 29 83 47
## [253] 273 55 23 84 165 30 210 104 92 9 10 24 201 190 112 152 101 199
## [271] 73 73 92 43 326 99 75 16 287 112 3 42 25 128 108 283 18 9
## [289] 6 136 5 20 184 142 20 125 109 38 96 9 120 157 243 77 30 21
## [307] 118 63 60 100 14 269 37 36 24 34 46 22 34 157 28 56 154 20
## [325] 100 470 374 85 37 14 3 53 138 34 19 247 72 38 21 55 4 12
## [343] 188 387 11 23 127 127 46 37 165 65 83 6 38 271 165 3 127 88
## [361] 13 91 45 79 45 100 12 87 217 106 12 38 86 141 232 32 109 206
## [379] 40 114 63 66 125 1 118 219 40 6 166 344 11 28 19 163 94 14
## [397] 38 80 372 235 134 65 38 30 11 22 108 5 17 57 12 4 195 50
## [415] 73 11 244 78 29 94 13 128 6 187 32 43 42 20 14 80 12 15
## [433] 13 203 115 171 19 66 34 28 97 53 20 161 21 23 38 384 155 147
## [451] 4 31 313 191 124 164 40 113 2 31 41 3 165 80 16 196 39 19
## [469] 21 203 31 434 45 131 239 109 124 42 463 4 111 5 50 14 3 190
## [487] 308 44 17 7 22 36 54 112 110 92 592 11 255 180 55 356 101 29
## [505] 27 65 99 7 25 143 105 94 139 30 12 33 31 37 9 43 69 50
## [523] 35 431 53 219 86 64 71 14 35 8 225 16 56 143 252 72 36 30
## [541] 83 23 24 122 15 19 243 44 74 116 124 377 37 141 102 9 250 35
## [559] 445 67 141 84 1 38 167 263 25 119 21 308 173 209 83 27 14 32
## [577] 145 629 14 9 30 292 9 4 92 88 214 134 21 198 10 48 117 9
```

```

## [595] 90 428 45 47 153 182 158 50 176 110 1 141 2 350 222 113 44 132
## [613] 89 149 11 269 74 263 517 15 173 59 46 30 20 111 6 38 123 76
## [631] 111 31 101 52 46 5 178 154 86 405 20 2 38 117 122 1 10 378
## [649] 240 98 197 24 67 298 15 37 77 13 59 10 552 76 69 129 45 218
## [667] 31 153 8 31 114 55 93 18 84 94 6 17 18 554 47 297 46 195
## [685] 11 252 34 394 82 421 66 11 25 81 121 29 4 5 32 54 5 117
## [703] 3 20 112 220 97 183 413 213 61 196 12 46 250 252 60 21 83 21
## [721] 378 12 56 124 65 16 261 13 2 31 106 127 66 127 38 13 143 35
## [739] 17 34 223 236 42 92 48 37 128 17 7 127 51 152 172 30 56 46
## [757] 5 102 103 155 24 176 46 28 151 119 13 13 136 117 32 328 148 155
## [775] 1 109 119 63 3 278 70 141 133 27 191 8 21 50 2 59 237 280
## [793] 290 46 17 58 33 43 93 44 132 797 142 47 48 13 329 124 14 40
## [811] 125 351 258 145 191 257 240 5 22 52 74 92 19 21 396 293 16 93
## [829] 168 23 146 127 17 124 192 90 195 78 97 28 147 127 47 105 96 53
## [847] 76 107 111 2 57 23 168 68 104 203 9 1 14 32 351 62 221 17
## [865] 53 20 132 86 107 222 21 118 97 3 120 256 30 150 56 132 12 135
## [883] 85 81 51 214 84 27 7 42 185 150 102 71 9 102 93 571 5 54
## [901] 82 40 13 140 296 159 58 6 27 103 79 17 68 20 59 2 92 37
## [919] 243 62 69 253 24 386 41 20 46 546 125 45 64 57 252 71 116 34
## [937] 8 1 3 318 74 49 203 247 2 10 142 99 18 28 78 138 49 29
## [955] 157 73 1 57 109 30 56 30 90 37 78 163 136 276 56 66 86 31
## [973] 57 79 34 178 169 50 7 59 36 329 355 353 152 382 148 123 206 13
## [991] 3 17 41 251 79 14 116 95 11 147
##
## $`p= 0.03`
## [1] 64 38 26 139 3 74 21 15 11 21 27 4 34 3 5 46 49 1
## [19] 41 36 58 122 5 21 106 9 18 13 22 9 8 1 54 3 20 58
## [37] 12 54 19 74 4 3 14 3 123 58 9 52 27 26 76 74 9 9
## [55] 4 4 23 51 65 33 11 3 30 20 1 70 16 14 88 4 5 15
## [73] 51 142 7 19 17 73 40 22 20 18 32 5 25 28 43 11 18 7
## [91] 14 17 29 6 10 14 64 17 5 55 26 20 33 4 55 39 13 376
## [109] 33 94 1 4 142 7 22 16 49 31 5 74 43 28 4 76 126 37
## [127] 50 85 2 49 15 160 12 89 72 116 19 32 20 27 19 22 26 40
## [145] 96 32 15 2 106 31 47 34 12 9 2 55 55 47 87 13 1 16
## [163] 154 17 13 3 17 157 26 32 12 43 16 61 52 29 73 4 25 51
## [181] 26 7 1 4 31 25 23 12 43 20 23 23 12 1 92 19 11 9
## [199] 2 52 5 65 35 9 13 17 112 24 117 7 39 41 27 41 3 29
## [217] 60 21 2 12 42 5 5 12 3 63 32 1 2 4 17 9 52 27
## [235] 48 9 35 62 29 37 5 18 59 6 27 7 13 46 68 1 4 47
## [253] 26 24 100 4 47 8 47 10 99 75 34 12 6 47 97 48 83 16
## [271] 3 56 12 91 61 18 28 55 31 4 24 29 25 20 54 29 76 52
## [289] 12 51 135 48 30 21 1 24 27 6 7 26 47 17 6 7 15 54
## [307] 38 60 12 115 4 80 75 2 3 13 11 17 38 77 40 29 4 64
## [325] 14 2 28 1 14 35 18 29 34 48 44 81 46 13 51 58 3 19
## [343] 16 115 148 17 22 40 64 24 10 31 20 25 2 38 130 11 6 8
## [361] 51 25 13 33 3 27 53 22 135 1 5 58 14 14 95 3 25 8
## [379] 70 23 28 10 186 7 8 13 43 82 57 56 25 4 74 33 135 12
## [397] 2 1 6 28 58 53 26 18 18 93 1 30 40 5 24 22 111 97
## [415] 1 7 88 76 98 11 50 46 20 31 3 2 14 30 17 37 57 4
## [433] 62 10 41 13 2 18 41 20 9 52 1 64 1 9 2 12 85 29
## [451] 30 13 3 40 94 26 31 15 5 31 111 8 128 23 8 19 32 57
## [469] 12 15 8 21 93 91 5 42 88 8 6 13 38 65 18 26 44 19
## [487] 165 41 29 21 6 1 7 9 14 4 12 2 42 10 7 18 24 18
## [505] 6 31 1 63 80 4 17 7 6 83 38 7 7 7 67 3 21 17

```

```

## [523] 30 81 16 150 17 5 22 112 121 37 22 31 12 10 11 3 38 37
## [541] 22 16 29 8 1 53 7 12 53 10 17 15 21 4 10 5 5 9
## [559] 22 28 24 85 5 3 52 76 24 14 25 30 2 56 23 18 4 1
## [577] 50 1 9 7 24 86 20 27 1 68 4 41 7 52 6 186 80 7
## [595] 45 1 4 52 23 30 12 10 27 7 13 5 7 14 43 9 2 26
## [613] 51 33 38 65 25 5 1 18 20 110 1 17 4 75 38 1 17 10
## [631] 51 24 5 60 9 18 34 26 130 30 33 5 2 46 31 52 5 16
## [649] 13 43 5 6 22 71 57 43 109 69 9 238 48 4 14 9 4 15
## [667] 57 56 46 39 5 14 52 25 36 21 40 5 161 23 123 16 64 8
## [685] 20 103 106 50 15 86 7 62 44 67 1 2 65 58 3 45 16 32
## [703] 41 16 29 31 20 43 30 159 2 82 40 65 5 6 30 9 3 56
## [721] 9 38 35 41 27 45 23 2 22 16 2 21 8 9 21 45 52 20
## [739] 34 33 26 62 20 68 105 12 71 66 42 40 31 1 7 7 11 17
## [757] 47 39 127 22 43 28 55 37 10 36 72 124 19 72 51 61 37 5
## [775] 10 22 9 64 3 57 14 41 58 17 26 15 12 26 35 6 36 4
## [793] 137 4 35 2 26 5 11 14 51 6 32 6 5 3 30 12 17 42
## [811] 6 14 28 43 22 2 30 27 106 17 34 60 68 15 7 8 15 11
## [829] 21 132 48 29 51 39 2 10 43 19 74 3 28 32 4 55 12 25
## [847] 30 74 88 35 54 22 48 15 6 9 74 49 64 73 33 5 2 139
## [865] 5 2 7 89 14 62 14 67 32 43 1 4 9 24 118 152 22 2
## [883] 87 32 23 20 29 74 5 18 1 8 7 17 11 7 45 31 26 21
## [901] 16 100 14 3 35 65 14 28 25 120 66 16 11 94 60 17 17 88
## [919] 15 19 78 89 10 49 13 33 66 44 31 12 37 3 55 5 41 22
## [937] 29 84 28 17 2 9 20 15 42 73 27 10 2 25 2 57 26 99
## [955] 25 42 44 3 102 39 79 84 27 15 24 7 56 1 98 12 18 13
## [973] 30 78 5 11 6 25 28 48 30 8 165 4 5 49 3 18 5 71
## [991] 18 44 39 1 50 14 70 64 32 20
##
## $`p= 0.05`
## [1] 54 3 4 28 2 18 27 56 1 1 5 2 56 16 13 25 17 66
## [19] 6 36 7 31 2 19 14 7 16 63 14 17 3 3 1 10 6 1
## [37] 32 21 11 48 8 95 46 43 62 5 6 35 41 22 41 14 26 2
## [55] 14 3 9 108 4 5 7 2 22 6 7 21 24 8 36 9 22 41
## [73] 24 4 10 1 3 47 5 15 55 25 34 3 10 5 14 25 52 4
## [91] 6 26 34 41 16 3 13 17 11 21 83 1 11 8 14 3 8 28
## [109] 30 53 23 2 2 7 5 1 5 27 54 55 1 1 9 25 6 17
## [127] 32 6 25 13 1 2 12 86 19 1 17 4 3 9 13 34 68 31
## [145] 13 15 3 6 79 27 46 112 35 8 19 16 20 5 19 4 1 29
## [163] 2 2 8 34 1 33 29 44 8 8 42 82 6 5 41 6 3 27
## [181] 16 3 17 1 70 2 37 24 28 36 46 11 62 70 22 16 7 3
## [199] 9 58 21 31 12 3 38 25 32 1 9 21 11 36 12 5 1 18
## [217] 13 13 6 31 6 12 17 8 15 9 10 27 51 39 10 17 51 4
## [235] 34 1 14 14 31 30 10 50 8 5 32 48 14 11 2 51 16 25
## [253] 11 1 58 38 3 4 10 12 3 29 13 7 29 10 2 12 1 29
## [271] 7 22 33 18 7 5 23 20 41 17 12 40 27 43 15 21 1 15
## [289] 6 13 36 48 21 10 33 63 54 8 11 20 6 26 34 5 4 14
## [307] 13 1 2 34 27 2 77 2 5 8 2 17 6 37 17 9 29 2
## [325] 15 24 27 10 21 22 28 40 40 12 10 22 11 19 4 17 2 38
## [343] 4 7 23 27 3 2 19 16 82 12 26 21 35 35 1 103 1 16
## [361] 109 76 26 33 2 14 5 8 3 30 46 3 16 11 11 14 42 5
## [379] 14 22 26 3 30 44 8 26 10 31 12 45 17 24 4 24 19 63
## [397] 3 10 2 1 5 31 34 22 10 17 12 7 42 5 16 47 13 2
## [415] 91 20 12 3 15 21 38 55 2 23 5 6 44 7 5 4 57 5
## [433] 1 2 11 10 1 48 6 5 21 8 22 9 9 5 5 2 26 12

```

```

## [451] 2 18 7 19 6 6 15 47 2 7 27 1 23 42 25 1 8 21
## [469] 28 27 13 18 8 21 5 38 9 8 28 25 4 8 28 2 11 10
## [487] 11 21 3 18 2 4 49 11 9 11 8 7 58 31 41 5 9 1
## [505] 29 24 11 18 1 16 9 15 6 9 6 5 11 2 43 7 28 2
## [523] 25 13 6 7 2 72 59 12 3 5 23 2 5 16 4 4 7 14
## [541] 21 6 76 7 17 35 8 27 20 16 35 21 16 27 5 8 2 11
## [559] 62 1 29 3 24 6 5 8 3 2 20 8 20 28 18 6 11 11
## [577] 16 2 16 7 7 4 56 14 10 45 22 31 14 12 44 5 9 37
## [595] 37 16 6 36 18 21 6 11 1 71 12 41 2 10 119 4 21 2
## [613] 6 11 25 7 2 67 9 18 108 18 12 7 3 7 1 1 24 30
## [631] 57 13 15 11 5 35 8 25 7 11 1 31 2 2 15 5 12 16
## [649] 24 36 4 56 6 24 20 36 12 43 57 1 60 32 19 4 17 1
## [667] 7 3 37 32 15 1 13 6 20 20 21 8 101 22 49 13 38 55
## [685] 6 86 20 12 39 26 6 9 24 1 20 61 4 25 8 8 16 5
## [703] 21 11 79 10 1 10 30 7 36 8 11 2 52 41 78 17 2 72
## [721] 41 46 12 14 31 10 16 6 6 11 19 54 66 12 44 32 19 25
## [739] 33 7 26 8 22 42 47 5 12 4 46 5 6 11 27 7 13 4
## [757] 19 1 30 5 2 2 12 10 3 7 7 27 25 16 42 29 5 17
## [775] 5 38 2 36 2 5 116 7 2 9 34 13 12 93 1 8 15 38
## [793] 46 20 15 42 12 26 8 35 5 9 2 24 11 7 12 6 10 48
## [811] 6 3 1 9 15 21 12 5 13 34 26 2 13 6 26 1 5 3
## [829] 11 1 7 29 12 12 8 10 28 1 15 5 55 9 15 26 13 24
## [847] 33 14 18 1 36 25 3 10 2 21 11 8 53 4 8 8 5 7
## [865] 5 21 24 11 26 5 65 3 9 57 6 88 10 16 10 44 22 7
## [883] 3 11 7 4 11 4 5 11 62 51 1 2 7 18 18 26 2 2
## [901] 21 10 15 9 6 4 64 13 42 6 14 41 39 6 14 58 19 19
## [919] 1 20 7 7 6 29 2 2 13 16 11 16 9 31 4 23 4 57
## [937] 14 6 3 14 5 11 2 2 5 42 6 2 18 5 64 17 22 12
## [955] 17 11 7 35 87 16 5 12 2 7 25 56 23 65 8 15 22 29
## [973] 7 10 14 17 3 7 6 40 18 16 7 12 36 16 7 14 12 4
## [991] 10 10 8 13 31 13 65 12 11 3
##
## $`p= 0.07`
## [1] 3 4 5 33 6 19 12 35 11 6 14 7 13 6 4 2 12 6 3 9 5 4 23 4
## [25] 12 11 24 50 27 2 7 22 9 33 5 8 11 6 30 9 4 7 5 27 9 12 38 13
## [49] 11 17 7 6 1 10 13 9 17 5 9 4 8 4 6 2 7 6 3 5 14 47 15 15
## [73] 18 62 33 23 17 2 14 61 13 34 11 3 1 1 10 13 40 9 3 27 23 7 27 5
## [97] 19 4 7 12 16 14 16 10 3 5 51 9 1 2 7 11 10 34 9 2 12 3 9 8
## [121] 9 4 1 11 5 17 1 6 5 22 3 11 2 6 14 4 17 9 36 2 15 11 10 10
## [145] 16 21 15 5 16 3 13 64 1 3 15 17 14 19 18 7 8 7 8 1 26 15 5 13
## [169] 1 9 7 8 16 46 1 7 7 55 36 27 12 34 20 12 29 4 15 4 4 8 3 4
## [193] 14 5 12 4 4 18 8 27 27 14 52 6 42 7 39 23 9 53 10 16 21 9 33 10
## [217] 11 44 20 34 16 6 10 6 25 4 2 1 7 3 1 16 5 19 8 21 10 6 8 3
## [241] 15 1 27 7 9 22 16 3 2 1 13 4 3 13 1 2 16 23 24 21 1 5 26 3
## [265] 10 22 10 7 1 6 27 8 7 17 33 13 1 16 3 27 28 12 5 18 14 2 67 48
## [289] 18 10 3 8 11 17 5 1 41 3 19 11 26 9 42 15 22 12 40 29 1 31 1 3
## [313] 15 1 13 19 13 2 1 4 28 8 7 13 16 11 30 12 7 16 2 5 9 2 4 7
## [337] 2 5 9 4 6 4 47 25 5 20 1 25 12 6 4 9 18 56 12 15 20 6 1 1
## [361] 37 4 6 36 6 20 3 38 17 28 11 7 14 31 7 5 7 6 18 19 1 8 8 19
## [385] 12 1 10 7 1 11 9 4 18 1 5 17 2 35 3 37 27 1 10 12 15 18 15 7
## [409] 5 12 8 53 29 19 8 1 11 1 16 7 7 4 2 19 6 9 2 1 46 3 13 17
## [433] 6 40 22 4 2 1 4 5 55 7 7 25 4 18 4 3 1 4 4 23 18 13 3 11
## [457] 1 10 12 9 10 9 25 4 9 36 8 40 2 1 1 48 3 14 10 10 26 10 2 10
## [481] 5 4 7 13 3 11 12 8 2 6 2 3 21 36 1 6 10 8 16 32 15 10 18 39

```

```

## [505] 6 1 5 19 38 11 3 2 9 73 4 6 4 5 27 11 20 15 61 7 2 21 2 7
## [529] 24 5 35 4 3 26 35 13 3 61 19 21 55 9 37 18 8 72 8 32 6 5 13 22
## [553] 29 47 6 9 1 3 8 12 31 5 11 21 1 8 8 15 2 17 1 5 13 36 8 8
## [577] 12 11 2 4 66 8 9 28 34 13 10 24 6 1 44 4 1 18 55 1 7 3 20 5
## [601] 5 14 7 21 23 2 5 3 1 6 11 40 18 37 15 6 32 22 3 41 9 77 19 2
## [625] 10 3 3 5 20 3 23 14 10 16 17 17 7 16 4 8 51 11 4 4 46 20 3 6
## [649] 19 5 1 18 32 31 69 8 27 3 4 3 8 5 7 8 4 13 1 25 13 16 26 16
## [673] 6 4 3 6 1 9 39 4 2 14 4 3 1 17 3 8 44 1 11 2 1 17 4 45
## [697] 2 5 9 24 17 12 32 13 1 2 29 3 2 3 5 3 6 3 28 12 13 14 6 2
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```



```

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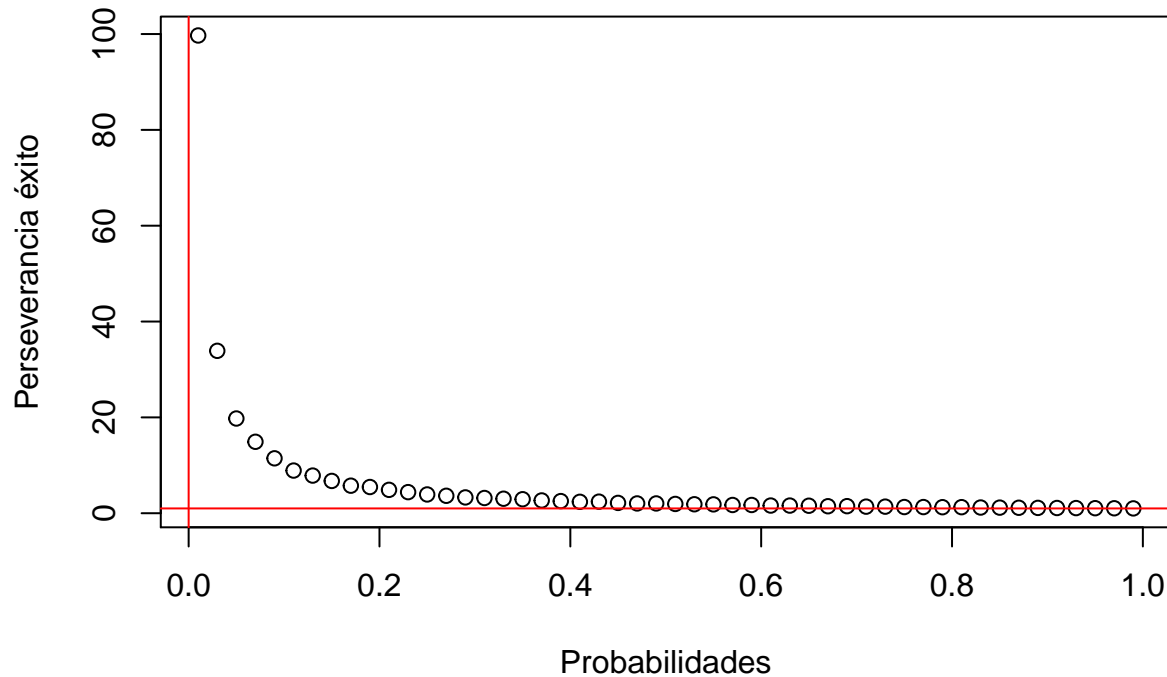
```


Graficamos p vs el promedio de `n_perseverancia_exito(1000,p)`. Definimos una función para calcular el promedio de la función `n_perseverancia_exito(1000,-)` y de paso nos sirve para poder usar el comando `lapply` a la grilla.

```

promedio_1000_ejecuciones=function(p){
  x=n_perseverancia_exito(1000,p)
  sum(x)/1000
}
y=lapply(grilla,promedio_1000_ejecuciones)
plot(grilla,y,xlab='Probabilidades',
      ylab='Perseverancia éxito')
abline(h=1,v=0,col='red')

```



Vemos que tiene una forma asintótica. Siendo un poco más formales podemos decir que cuando p tiende a 0 la perseverancia tiende a infinito, lo cual es intuitivo ya que si $p=0$ nunca vamos a obtener un éxito y por tanto vamos a repetir el experimento infinitas veces. Análogamente si p tiende a 1 la perseverancia tiende a 1, de hecho cuando p ES 1 la perseverancia ES 1, porque si la probabilidad de que el experimento sea exitoso es 1 entonces al primer intento obtendremos un éxito.

Proponemos la función $f(x) = \frac{1}{x}, x > 0$. Grafiquemos esta curva superpuesta con el gráfico anterior. Primero definamos la función f y la imagen de la grilla vía f

```

f=function(x){1/x}
f_grilla=lapply(grilla,f)

```

Grafiquemos

```

plot(grilla,y,xlab='Probabilidades',
      ylab='Perseverancia éxito')
abline(h=1,v=0,col='red')
lines(grilla,f_grilla,col='blue')

```

