

```
1 # Assignment 2a
2 rows <- 7
3 cols <- 6
4
5 # matrix of zeros
6 x <- matrix(data = 0, nrow = rows, ncol = cols)
7
8 # Counter
9 ctr <- 0
10
11 for(i in 1: rows ){
12   for(j in 1:cols){
13     if(i != j) {
14       x[i,j] = 1
15       ctr = ctr + 1
16     } else {
17       break
18     }
19   }
20   print('Completed Row ')
21 }
22
23
24
25
26
27
```

```
1
2 + print('Completed Row ')
3 +
4 [1] "Completed Row ="
5 [1] "Completed Row ="
6 [1] "Completed Row ="
7 [1] "Completed Row ="
8 [1] "Completed Row ="
9 [1] "Completed Row ="
10 [1] "Completed Row ="
11
12 > print(x = ctr)
13 [1] 21
14 >
15 > df = data.frame(x)
16 > df
17   X1 X2 X3 X4 X5 X6
18 1 0 0 0 0 0 0
19 2 1 0 0 0 0 0
20 3 1 1 0 0 0 0
21 4 1 1 1 0 0 0
22 5 1 1 1 1 0 0
23 6 1 1 1 1 1 0
24 7 1 1 1 1 1 1
25 >
```