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Ex 13: Please find out all prime numbers from 2 to 100.

**(Please use “while” to build a “do…until…loop”)**

> prime\_list

[1] 2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97

Code:

prime\_func <- function(testno){

done <- FALSE

i <- 2

while(! done){

if(testno %% i == 0){

prime <- 0

done <- T

}

if(i == testno){

prime <- 1

done <- T

}

i <- i + 1

}

return(prime)

}

prime\_list <- c()

for(i in 2:100){

if(prime\_func(i) == 1){

prime\_list <- c(prime\_list, i)

}

}

prime\_list