

PLS 900 Homework 1

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Homework Project 1

We want to print only the elements from values that are not in primes

So, first, we need to create our values and primes objects

```
primes <- c(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)
values <- c(3,4,12,19,23,48,50,61,63,78)
```

We create a loop that (1) cycles through the values of “values” and sets the variable noPrime to FALSE; (2) cycles through “primes” and replaces noPrime with TRUE if the value in “primes” is equal to the value in “values”; and finally (3) prints the value in “values” if noPrime is FALSE. This leaves with only the values printed which appear in “values” that are not in “primes.”

```
for(v in values){
  noPrime <- F
  for (p in primes) {
    if(v == p){
      noPrime <- T
    }
  }
  if (noPrime == F){
    print(v)
  }
}
```

```
## [1] 4
## [1] 12
## [1] 48
## [1] 50
## [1] 63
## [1] 78
```