

## Programming Assignment 1: Quiz

Quiz, 10 questions

1  
point

1.

What value is returned by the following call to `pollutantmean()`? You should round your output to 3 digits.

```
1 pollutantmean("specdata", "sulfate", 1:10)
```

☐ 4.868

☐ 6.545

☒ 4.064

☐ 3.782

☐ 6.026

☐ 3.666

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2.

What value is returned by the following call to `pollutantmean()`? You should round your output to 3 digits.

```
1 pollutantmean("specdata", "nitrate", 70:72)
```

- ☐ 2.752
  - ☐ 2.604
  - ☐ 1.182
  - ☒ 1.706
  - ☐ 0.914
  - ☐ 2.394
-

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3.

What value is returned by the following call to `pollutantmean()`? You should round your output to 3 digits.

```
1 pollutantmean("specdata", "sulfate", 34)
```

☐ 1.573

☒ 1.477

☐ 0.450

☐ 1.300

☐ 0.680

☐ 0.591

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4.

What value is returned by the following call to `pollutantmean()`? You should round your output to 3 digits.

```
1 pollutantmean("specdata", "nitrate")
```

☐ 2.493

☐ 2.363

☐ 1.774

☒ 1.703

☐ 1.842

☐ 2.233

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5.

What value is printed at end of the following code?

```
1 cc <- complete("specdata", c(6, 10, 20, 34, 100, 200, 310))  
2 print(cc$nobs)
```

- ☐ 217 210 206 214 211 203 211
  - ☒ 228 148 124 165 104 460 232
  - ☐ 215 201 188 204 193 213 206
  - ☐ 227 184 189 196 232 224 189
  - ☐ 201 214 235 183 198 210 210
  - ☐ 204 222 200 212 213 198 196
-

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6.

What value is printed at end of the following code?

```
1 cc <- complete("specdata", 54)
2 print(cc$nobs)
```

☐ 213

☐ 205

☐ 248

☐ 228

☐ 220

☒ 219

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7.

What value is printed at end of the following code?

```
1 set.seed(42)
2 cc <- complete("specdata", 332:1)
3 use <- sample(332, 10)
4 print(cc[use, "nobs"])
5
```

☒ 711 135 74 445 178 73 49 0 687 237

☐ 643 99 703 673 59 366 277 644 318 594

☐ 270 310 27 692 307 681 631 455 690 440

☐ 524 577 276 487 3 592 5 148 645 435

☐ 608 885 684 510 765 171 244 745 624 216

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8.

What value is printed at end of the following code?

```
1 cr <- corr("specdata")
2 cr <- sort(cr)
3 set.seed(868)
4 out <- round(cr[sample(length(cr), 5)], 4)
5 print(out)
```

- ☐ 0.3792 0.5118 0.3620 0.4726 0.5782
  - ☐ -0.0203 0.5856 0.0983 0.3840 0.1137
  - ☐ 0.4474 0.4720 0.1239 0.5220 0.2538
  - ☐ -0.0351 0.2736 -0.0176 0.5520 0.1828
  - ☐ 0.2688 0.1127 -0.0085 0.4586 0.0447
  - ☐ 0.1539 -0.0056 0.3023 0.4158 0.2558
-

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9.

What value is printed at end of the following code?

```
1 cr <- corr("specdata", 129)
2 cr <- sort(cr)
3 n <- length(cr)
4 set.seed(197)
5 out <- c(n, round(cr[sample(n, 5)], 4))
6 print(out)
```

- ☐ 229.0000 -0.2418 0.4496 0.8748 -0.3924 -0.5713
  - ☐ 233.0000 -0.6377 0.3773 -0.0759 0.7335 0.2879
  - ☐ 225.0000 0.4216 0.4207 -0.0507 0.9377 0.0277
  - ☐ 242.0000 0.8233 0.3443 -0.2242 -0.7703 0.8735
  - ☐ 243.0000 0.2540 0.0504 -0.1462 -0.1680 0.5969
  - ☐ 247.0000 0.1958 0.9304 -0.4851 -0.8229 -0.0679
-



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10.

What value is printed at end of the following code?

```
1 cr <- corr("specdata", 2000)
2 n <- length(cr)
3 cr <- corr("specdata", 1000)
4 cr <- sort(cr)
5 print(c(n, round(cr, 4)))
```

- ☐ 3.0000 -0.0206 -0.5881 0.5135
- ☐ 0.0000 -0.0190 0.0419 0.1901
- ☐ 3.0000 0.5342 -0.6713 0.3684
- ☐ 3.0000 -0.8907 0.4755 -0.0175
- ☐ 2.0000 0.5596 -0.5655 -0.1241
- ☐ 0.0000 -0.8974 0.8278 0.4519

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