**Python**

1. Explain how the *lambda* function works
2. What happens when you multiply the following by 3
   1. List
   2. String
   3. Dict
3. What is the difference between lists and arrays?
4. How do you slice a list?
5. How would you remove duplicate elements from a list?
6. How would you sort a dictionary by key, alphabetically?
7. Check if a string only contains
   1. Numbers
   2. Letters
   3. Numbers and Letters

**Statistics**

1. In a box-and-whiskers plot, how do you define
   1. The edges of the box
   2. The length of the whiskers
2. In layman terms, what do the following represent?
   1. Variance
   2. Standard deviation
   3. Median
3. What is the difference between a probability density function (pdf) and cumulative distribution function (cdf)? Use the normal distribution for your answer, to keep things straightforward.
4. What is the purpose of calculating a z-score for conducting statistical tests?
5. How does a least squares regression model arrive at the best fit line?
6. What does the height of the bars represent, in a binomial distribution pdf?
7. In what cases should you use a linear regression model?