1a)

**2a)** The worst-case running time for this algorithm with an array of size n is O(n). The algorithm iterates over the array and doesn’t perform any operations that take up significant time. This worst case involves *val* being at the end of *data*:

In this case, the entirety of *data* must be iterated over before *val* is found, resulting in the worst-case running time of O(n).

**2b)** The best-case running time for this algorithm with an array of size n is O(1). This best-case scenario requires *val* to be at the start of *data*:

Any array of this type will result in a running time of O(1), as *val* is the first element checked.