Two new tools

1. Digital.ai
   a. unique value-add
      i. Specialize in working with very large companies
   b. notable features
      i. Has machine learning-based analytics to predict and prevent issues impacting software delivery reliability, efficiency, and customer experience
      ii. They provide training on all of their services
   c. Convince manager
      i. If we are wanting to expand our company to an enterprise level, then Digital.ai is the best decision for CI/CD. It is a cost effective software company that can take care of a lot of natural issues that our company will have
   d. Getting Started
      i. If you are a new member, you can do a free trial, you will be emailed a license key
      ii. Yes, it is very well documented
      iii. They have very detailed getting started instructions in their documentation. They also provide training on how to use their services
      iv. Getting Started Path
         1. Sign up for the product or free trial, then you will be emailed a license key
         2. Install digital.ai based on your installation type (JVM based or Kubernetes Operator Based)
         3. Then log in with a username and password
         4. Get started!
   e. Founded in 1999- popular
2. Shoreline.ai
   a. unique value-add
      i. They automatically fix low-value bugs, so the team can focus on bigger issues
   b. notable features
      i. Action alarms that give context of the bug
      ii. Can give per second data on bugs for up to 10000 hosts
      iii. Streamline remediations with pre built actions
   c. Convince manager
      i. If we are really trying to optimize our IT budget, Shoreline.ai would be a great choice. Using this software will free up members of our DevOps team to work on more tasking issues, or even puts our IT department in a position to scale our product.
   d. Getting Started
         1. Easy way to begin

2. There is documentation that is not super organized. There are a few different tabs you need to hop into to get started. Not as organized as Digital.ai

3. **Getting Started Path**
    a. Download Shoreline on every host resource you want tracked by Shorline
    b. You can do this with Kubernetes
    c. Download OP CLI locally
        i.   You can find this available for download in the shoreline configuration UI
        ii. Choose your operating system
    d. Based on your operating system, follow the detailed instructions in the documentation for installation of the CLI
    e. Began in 2019- starting to get
    f. Popular

PART II

	DoublerAppend	DoublerInsert
tinyArray	91.013 µs	38.393 µs
smallArray	113.753 µs	54.548 µs
mediumArray	163.58 µs	168.836 µs
largeArray	635.327 µs	6.49572 ms
extraLargeArray	4.093799 ms	52.789622 ms

Explanation	At the tinyArray, the doubler insert with the unshift method is the fastest option to go about things. This remains true for the smallArray. However, as the array scales, the doubler append with the push method becomes the fastest method by a lot. *Extra Credit*- the reason why push is faster than unshift is because unshift needs to move every item in the array to insert the new data at the start of the array, where push is simply putting the new data at the end of the array where no extra work is needed.