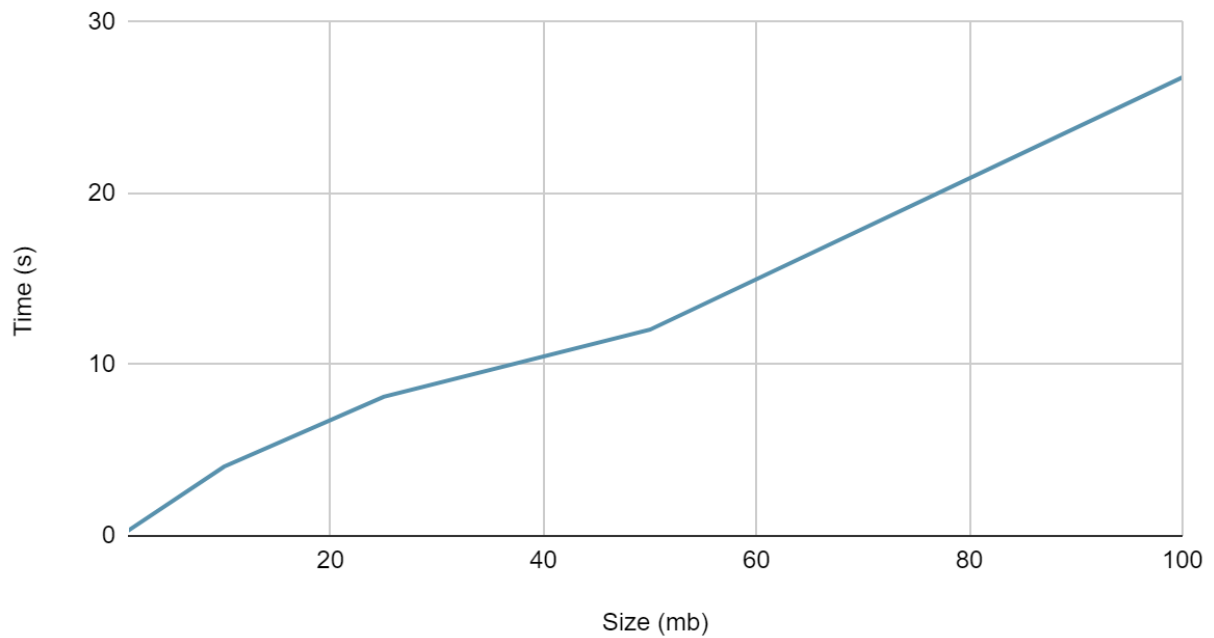


Time (s) vs. Size (mb)



Here, we can observe that the pattern is linear. I plotted points 1, 10, 25, 50, 100 mb respectively to find the pattern. This makes sense, as we have to make calls based on the size of the file in consideration to our max buffer size, so once any file is beyond the max buffer we will have to make $n / \text{max buffer size}$ calls. Since the size of the files are much larger than the buffer, we can essentially treat it as a constant so it is linear essentially.