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Lab 1 Answers

1. Was one language easier or faster to write the code for this? If so, describe in detail why, as in what about the language made that the case.
   1. Easiest: I had the easiest time in java because I knew a little of the language before hand. I had an easier time implementing absolute path in this language, when I went to a new directory it reads it cleanly. Also because it was object oriented
   2. Hardest: The hardest implantation I did was using C as I had a problem with abstract and absolute directories. C wasn’t really clear on when you were abstract or absolute. Example:
      1. Abstract: your looking through a class door, but you can reach pass it to get anything.
      2. Absolute: your walking though the glass door into a new room.
2. Even though a language may not (e.g. FORTRAN) support recursion, describe how you could write a program to produce the same results without using recursion. Would that approach have any limitations and if so, what would they be?
   1. For this I might do something like a linked list and try something like that. I don’t know if this would fully work though as size might be an issue. Each node would represent a new directory and it would just create a new node once there is a new directory to get into. The limitation is that if there are multiple folders in a directory it will be difficult to sort and then get the size of each file. Unfortunately, I feel like recursion might be needed for this if we are calculating this all at once though all the different directories.