

# Day 1 - Introduction

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## 1 PROBLEM 1 - UNSCRAMBLE

This is an exercise that will get you used to moving around the Unix operating system. It will also help you learn how to move folders and files around quickly. Obtain the *tar* file `problem1.tar.gz` from the NUIntroductiontoLIGO Github page. Download it to a suitable location on your Desktop - later this week we will learn how to pull files down from Github via the command line as well as transfer files to and from QUEST.

When you have downloaded the file, unpack it in its current location using the UNIX command *tar*:

```
tar -zxvf problem1.tar.gz
```

Look up the options used in conjunction with this command using *Man* and be ready to report on what they are. Tars are a type of compressed file or group of files in UNIX - they are useful for shrinking files and folders and moving them around in groups. Having unpacked the tar you will find a new directory in the unpacking location called *Problem 1*. You will find a subdirectory called *Matrix*. It has a subdirectory, which has a subdirectory, and so on down eight levels of folders.

Your goal is to unscramble the directories and rearrange them into a specific quote from the 1999 movie *The Matrix*. If absolutely no one has any idea what the answer is supposed to be, you can ask. When complete, the top level directory will be the first word of the phrase, and the bottom level directory will be the last.

When you are done, re-pack the files into a new tar called *P1.1.tar.gz*.

```
tar -zcvf p1.1.tar.gz ./
```