The test plan below is for the track model of the train system on the team BitsPlease. The purpose of this document is to show testing plans for the track model for the model. Here we will identify the information in our software that should be tested.

What will we test?

* Data Integrity Test
  + Verify that the correct track file is opened.
* Test Track Class file functions
  + Creating the track
  + Getting accurate block info.
    - Maximum speed, elevation, speed, direction, size, grade, whether or not it is a branch, station.
  + Identifying a broken rail, broken track circuit, or power failure
  + Detecting a train on a block
  + Checking the temperature of the track and adjusting it if required

How will we test?

* We will test train detection based on whether the program is able to identify whether a block is occupied or not.
* Broken rail, broken track circuit, and power failure will be tested by creating the case and seeing whether the program is able to identify the failure.
* The remaining tests will be done through comparing the track information that is read in by the program and comparing it with the information on the data sheet.