

Grader Test Plan

Function to be created: `grader`

Requirements: Function takes parameter score of data type number, the valid range is 0 to 100 inclusive. Score between (and including) 0 and 39 is a fail, score between (and including) 40 and 59 are a pass, scores between (and including) 60 and 69 are merit, score above (and including) 70 is a distinction. Undefined inputs are considered invalid return value as well as data types input other than number.

Testing plan: (White box testing)

Correctness:

- Test function graders score numbers return appropriate grade string (fail, pass, merit or distinction)

Reliability:

- Boundary testing for each possibility fail, pass, merit and distinction and overall range
- Equivalence testing divides the input domain into equivalent classes of data then use as test case data

Robustness:

- Error guessing
- Test other data types input return an error
- Test no argument passed throws an error

Completeness

- The grader passing tests meets its specifications to a high extent