

## Marking criteria

Overall mark is out of 100. This is worth 40% of the final grade.

### Descriptors for markers

Use the full range of numerical values – I have described the features of the different ranges, but use your judgement to assign an exact mark.

Marks are out of 100.

**>90:** The code runs with no errors. It correctly implements the task as requested. It is well commented with docstrings for functions. The style is good with consistent indenting and good variable name choices. There is significant and creative additional investigation of the problem. Potentially could be used as a model answer.

**80-89:** The code runs with no errors. Its implementation of the task is mostly as requested. The commenting is generally good with docstrings. The style is generally good with consistent indenting and good variable name choices. There is significant additional investigation of the problem. Essentially – only relatively minor issues.

**70-79:** The code runs with no errors. Its implementation of the task is mostly as requested, although possibly with some issues. The commenting is ok but could be better, perhaps with comments or docstrings missing. The style is generally good, perhaps with minor issues of indenting or variable name choices. There is perhaps a good degree of additional investigation of the problem.

**60-69:** The code runs possibly producing errors, but ones of minor importance (i.e. an error is produced but most of the code would work). Its implementation of the task is mostly as requested, although possibly with some bigger issues. The commenting and docstrings are perhaps largely missing. The style is generally good, perhaps with minor issues of indenting or variable name choices. There is perhaps some modest additional investigation of the problem, although perhaps investigating obvious additional questions.

**50-59:** Narrow pass at MSc level. The code runs possibly producing errors, but ones of minor importance (i.e. an error is produced but most of the code would work). Its implementation of the task is incomplete – but with at least one working function although possibly also one function poorly done. The commenting and docstrings are perhaps largely missing. The style is ok, perhaps with some issues of indenting or variable name choices. There is some further investigation of the problem although perhaps at a rather basic level.

**40-49:** Narrow fail at MSc level. Code possibly produces more major errors, or would produce several errors. Implementation of the task is lacking, major elements of the task misunderstood or not implemented in code properly, perhaps all the tasks attempted but none correctly. Perhaps no comment lines or docstrings. Possibly poor style. Lacking or very minimal further investigation of the problem.

**30-39:** Poor answer. Demonstrates major imperfections in understanding of the task/programming. Code would produce perhaps several errors. Probably no comment lines or docstrings. Probably poor style. Lacking or very minimal further investigation of the problem.

**<30:** Very poor answer. Little understanding demonstrated. Implementation of the task is severely lacking, either by misinterpretation of the task or by misunderstanding how to implement it in code. No comment lines or docstrings. Poor style. Code does not work, would produce several errors when run. Lacking further investigation of the problem.