Mathematics u11601 (C Programming) Michaelmas 2021

November 3, 2021

Fifth assignment, due 12 noon, Wednesday 10/11/21

Plagiarism. The plagiarism policy is as always: you will not copy another student's assignment. If copying is detected, all students involved will lose marks, irrespective of who copied from whom.

Read this carefully. You should form the habit of reading specifications carefully, and following them.

The assignment is to write a C program, check that it works, and submit the C program.

Program: The program is the same as in Assignment 4, except that you must write (and, of course, use) a function

```
int rank_of ( int i, int n, double a[] )
```

which assumes $1 \leq i < n$ and returns the rank of `a[i]` in the array `a`. The rank is defined carefully in Assignment 4.

The arrays should be of size 1000 each: that should be plenty for this exercise.

The output should be the same as in Assignment 4.

Points to note.

The same remarks hold as in the previous assignments, especially that interactive input/output like

```
Please type in the next number:
```

should **not** occur.