

# COMPSCI2026 Algorithmics

## Assessed Exercise – Status and Implementation Reports

**Insert your name  
and matriculation number here**

March 14, 2025

### **Status report**

In the event of a non-working program, this section should state clearly what happens when the program is compiled (in the case of compile-time errors) or run (in the case of run-time errors).

Otherwise, this section should state whether you believe that your programs are working correctly. If so, indicate the basis for your belief, if not comment on what you think might be the problem.

### **Implementation report**

- (a) Here, explain how you implemented the first program for finding and printing word ladders. Include a discussion of any steps that you took to improve efficiency.
- (b) Here, explain how you implemented the Dijkstra's algorithm for finding shortest paths. Include a discussion of any steps that you took to improve efficiency.

### **Empirical results**

Summarise the running times of your two programs on the data sets provided. If the program fails to terminate in, say, two minutes, simply report non-termination.