

MAU11601 Assignment 1
Due 2026-10-08

1. Write a simple archery programme. It should draw a target, concentric coloured circles, draw a dot where the user has most recently clicked, and stop when the user clicks in the bullseye, the innermost circle.
2. Racket has a **reverse** function, to reverse the elements of a list. Suppose it didn't. How could you define one?
3. (a) Given the definitions

```
(define (r n) (range 0 (+ n 1) 1))
(define (f n) (foldl * 1 (r n)))
```

what does **f** compute?
4. Can you rewrite the definition of **f** to make its meaning clearer?