**CS4212 Compiler Design**

**Pop Quiz 1**

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1. Give the regular expression for the keyword “float” (typically found in C/C++/Java).

Assuming ‘.’ means “any character”, and ‘[.]’ means literal dot.

[+-]?([0-9]\*[.][0-9]+|[0-9]+[.][0-9]\*)

This recognizes a float that can have signs and be 9. or .9

2. Give the regular expression for a valid NUS student number (not your NUSNET email ID but the number on your student card). Why is this regular expression alone insufficient to ensure the student number is a valid one?

A[0-9][0-9][0-9][0-9][0-9][0-9][A-Z]

Insufficient because last digit is a checksum.