

Intro Programming Unit 2 – Test Review

5 pages , 60 points, 46 questions:

Study sections 2.5, 2.6, 2.8, random numbers, fieldwidths (i.e. format output), and rounding using: $((\mathbf{int})(100 * x + 0.5)) / 100.0$ (Note: sections 2.10 applets and 2.11 graphics are not on the test)

Terminology to know: typecasting, promotion (widening), precedence

Sections:

2.5 – order of operations and data conversion

2.6 – String class methods: `length()`, `concat()`, `toLowerCase()`, `toUpperCase()` ,

2.8 – Math methods: `sqrt()`, `pow(,)`, `abs()` , `ceil()`, `floor()`, `round()`, `random()`
and $(\mathbf{int})(\text{Math.random}() * (\text{big \#} - \text{small \#} + 1) + \text{small\#})$

Rounding using: $((\mathbf{int})(100 * x + 0.5)) / 100.0$

Format Output: (see WS 4) and recall '\n'