**2009 Question 1: NumberCub (9 points)**

| Total Scored out of 9 |  |
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**Part A: getCubeTosses (4 points)**

Constructs array

+1/2 constructs an array of type int or size numTosses

+1/2 constructs an array of type int and size numTosses

Processes tosses

+1 repeats execution of statements numTosses times

+1 tosses cube in context of iteration

+1/2 collects results of tosses

+1/2 returns array of generated results

**Part B: getLongestRun (5 points)**

Iterates over values

+1/2 accesses elements of values in context of iteration

+1/2 accesses all elements of values, no out-of-bounds access potential

Determines existence of run of consecutive elements

+1/2 comparison involving an element of values

+1/2 comparison of consecutive elements of values

+1 always determines length of at least one run of consecutive elements

+1 identifies maximum length run based on all runs

Return value

+1/2 returns starting index of identifies maximum length run

+1/2 returns -1 if no run identified