

2000 AP[®] Computer Science
A Question 2

Part A:	<code>IsOdd</code>	2 pts
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- +1 attempt (must include test of this `BigInt` object's digit(s) and/or value using `/`, `%`, or list of odd or even digits, and intent to return true in some cases, false in others)
- +1 correct

Part B:	<code>Power</code>	7 pts
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- +1 declarations and initializations
 - +1/2 product declared as `BigInt` and initialized to 1
 - +1/2 copies of `exp` and `base` properly declared and initialized
- +1 loop with correct bounds
- +1 test for odd exponent
 - +1/2 attempt (no pt for use of `%` or `/`, no pt if `IsOdd` used as void function)
 - +1/2 correct
- +1 update product correctly (must be inside some test for odd)
- +1 update base copy correctly
- +1 update exponent copy
 - +1/2 attempt (must have some reference to `DivBy2`)
 - +1/2 correct
- +1 return product

Usage (Part B only):

- 1/2 call to private member function (e. g. `Normalize()`, `GetDigit()`)