

# AP<sup>®</sup> COMPUTER SCIENCE A

## 2013 SCORING GUIDELINES

### Question 1: SongList

<b>Part (a)</b>	<code>getDownloadInfo</code>	<b>4 points</b>
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**Intent:** Search download list for requested title and return matching `DownloadInfo` object if found.

- +1 Accesses all necessary entries in `downloadList` (*no bounds errors*)
- +3 Identifies and returns matching entry in `downloadList`, if it exists
  - +1 Calls `getTitle` on `DownloadInfo` object from `downloadList`
  - +1 Checks for equality between title from list object and `title` parameter (*must use String equality check*)
  - +1 Returns reference to matching object if present; `null` if not (*point not awarded for early return*)

<b>Part (b)</b>	<code>updateDownloads</code>	<b>5 points</b>
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**Intent:** Update `downloadList` with information from list of titles

- +1 Accesses all entries in `titles` (*no bounds error for titles*)
- +1 Calls `getDownloadInfo(title)` to determine whether title from `titles` list exists in `downloadList`
- +1 Increments the count in matching `DownloadInfo` object if title is in `downloadList`
- +1 Constructs new `DownloadInfo` object (with correct information) if title is not in `downloadList` (*point not awarded if incremented at time of construction*)
- +1 Adds constructed object to end of `downloadList` if title is not in `downloadList` (*point not awarded if added more than once*)

<b>Question-Specific Penalties</b>
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- 1 (g) Uses `getLength/getSize` for `ArrayList` size
- 2 (v) Consistently uses incorrect array name instead of `downloadList/titles`
- 1 (z) Attempts to return a value from `updateDownloads`