

AP CS A: Practice for Assessment #1

Part 1: Binary and Hexadecimal numbering systems – study class examples from last week!

Part 2: Vocabulary - Study ALL WORDS FROM THE QUIZLET VOCAB! Anything is fair game. The link for this is on my website for 8/23

Part 3: String Methods - Identifying the return values of `length()`, `substring()`, and `indexOf()`. Study #1-7

Given the String below, identify the return values of the methods called on this String data.

String studentID = "RonaldMcDonald";

0 1 2 3 4 5 6 7 8 9 10 11 12 13
R o n a l d M c D o n a l d

Line #	Method Call	Return Value
1.	<code>studentID.substring(0, 4)</code>	Rona
2.	<code>studentID.substring(8)</code>	Donald
3.	<code>studentID.length()</code>	14
4.	<code>studentID.indexOf("ald")</code>	3
5.	<code>studentID.indexOf("k")</code>	-1
6.	<code>studentID.indexOf(6, "ald")</code>	11
7.	<code>studentID.substring(18)</code>	index of bounds

Extended Problems **★ NOT on test!**

8. `studentID.substring(studentID.length())` → gives 14
`studentID.substring(14)`
9. `studentID.substring(studentID.length() - 3)` → `studentID.substring(11)` → `ald`
 (14-3) → `studentID.substring(11)` → `ald`
10. `studentID.substring(studentID.length() - 5, studentID.length())`
`studentID.substring(14-5, 14)`
`studentID.substring(9, 14)` → `"onald"`
- the substring method is a lil' weird. It will accept 14 (one more than the last index) but not 15*