

CIS 111
Summer 2019
Project 4
Assigned date: July 22
Due Date: July 28 midnight

1. Take a string representing a date of birth from user, and show the date when the user will be one hundred thousand seconds of age as output [15 pts]
2. Take a string representing a date of birth from user, and show the day and month (with the format “mm/dd”) of the user’s half birthday. [15 pts]
3. Take a number n from user and show the Boolean value, true if the number is a palindrome, false otherwise.
If the input number is 1, your program should print: “1 is a palindrome? true”
If the input number is 711, your program should print: “711 is a palindrome? false”
If the input number is 10901, your program should print: “10901 is a palindrome? true”
Hint: Numbers and Strings do not have a reverse method, but Arrays do. Therefore, you could use this logic to help solve this problem: convert n to a String, split it, reverse it, and join it to reverse the original number. [30pts]
4. Take a sentence from user and find out the word which has maximum vowel count. **Use Regular Expression.** [20pts]
5. Take a string from user and then show the count of characters, vowels, digits, alphabetic letters, digits, special characters (neither alphabetic nor digit) the string contains.
Example:
If the input string is “2 stringifies!!”, your program should print:
“The string has 15 letters, 11 alpha letters, 4 vowels, 1 digits and 3 special characters.”
Use Regular Expression. [20 pts]