

## De La Salle University College of Computer Studies

|                         |                                |   |                   | Date:              |                       |
|-------------------------|--------------------------------|---|-------------------|--------------------|-----------------------|
| ion:                    |                                |   |                   | Grade:             |                       |
| Regular E               | xpressions                     |   |                   |                    |                       |
| ario that r             | nust satisfy all the           | ch of the given scena<br>indicated test cases<br>wer. Place your answ | . You do not need | to write a program |                       |
| istency, se             |                                | s https://regex101.c<br>8, so that it would al<br>xamples.            |                   | •                  |                       |
|                         |                                | ts with 120 and conta   |                   | -                  | late the number synta |
| Input                   | 12012345                       | 12000000  | 120               | 1205467            | 12143566              |
| Result                  | Accept                         | Accept  | Reject            | Reject             | Reject                |
|                         |                                |   | (a) I : I         | nlaces at most     |                       |
| Accept a p              | ositive integer or a           | floating-point number   | 74.15             | -41                | 84.235                |
|                         |                                | <del>-</del> ·  |                   |                    | 84.235<br>Reject      |
| Input Result Accept a v | 50 Accept  alid hexadecimal nu | 125.00 Accept   | 74.15 Accept      | -41 Reject         | Reject                |

|  | 1.4 | Accept a | date in the | format of | "yyyy-mm-do | ľ. |
|--|-----|----------|-------------|-----------|-------------|----|
|--|-----|----------|-------------|-----------|-------------|----|

Assumption: The regular expression will not check if the date is valid. Only syntactic validation is required

| Input  | 2022-03-10 | 0000-00-00 | 1234-25-67 | 2022/03/10 | 2021-1-1 | 12-12-1212 |
|--------|------------|------------|------------|------------|----------|------------|
| Result | Accept     | Accept     | Accept     | Reject     | Reject   | Reject     |

## 1.5 Accept a valid email address.

Assumption: The email format would use prefix@domain.

- The **prefix** may only contain alphanumeric and special characters (underscores, periods, and dashes only) where the special characters must be followed by one or more letter or numbers.
- The **domain** may only contain alphanumeric characters and dashes where the last portion must be at least two (2) letters.

| Input  | abc-d@mail.com | ab.cd@mail.com | abc-@mail.c | abcdef@mail#.com |
|--------|----------------|----------------|-------------|------------------|
| Result | Accept         | Accept         | Reject      | Reject           |
|        |                |                |             |                  |

## 1.6 Accept a password using the recommended password strength controls

Assumption: Password length must be at least 12 characters and 64 characters at most. It must also contain at least 1 upper case character, at least 1 lower case character, at least 1 digit, and at least 1 special character

| Input  | @n1M0La5A!I3 | D+7"/4bH,Nw_4:h^ | DLSU1234! | accessingwifi |
|--------|--------------|------------------|-----------|---------------|
| Result | Accept       | Accept           | Reject    | Reject        |