

Luke Schulz

hw02q1

CSC 240 Assignment #2

$\langle \text{letter} \rangle ::= a \mid b \mid c \mid d \mid e$

$\langle \text{LETTER} \rangle ::= V \mid W \mid X \mid Y \mid Z$

$\langle \text{number} \rangle ::= 0 \mid 1 \mid 2 \mid 3 \mid 4$

$\langle \text{letters} \rangle ::= \langle \text{letter} \rangle \mid \langle \text{letter} \rangle \langle \text{letters} \rangle$

$\langle \text{LETTERS} \rangle ::= \langle \text{LETTER} \rangle \mid \langle \text{LETTER} \rangle \langle \text{LETTERS} \rangle$

$\langle \text{numbers} \rangle ::= \langle \text{number} \rangle \mid \langle \text{number} \rangle \langle \text{numbers} \rangle$

$\langle \text{sequence} \rangle ::= \langle \text{letters} \rangle \langle \text{LETTERS} \rangle \langle \text{numbers} \rangle \mid \langle \text{LETTERS} \rangle \langle \text{letters} \rangle \langle \text{numbers} \rangle$

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|---------------|---|
| 1. CSE200 | == INVALID: There's no C, S, E in our VSPL. |
| 2. abcXYZ125 | == INVALID: There's no 5 in our VSPL |
| 3. XYZcde340 | == VALID : sequence == $\langle \text{LETTERS} \rangle \langle \text{letters} \rangle \langle \text{numbers} \rangle$ |
| 4. VWXa14 | == VALID : $\text{LETTERS-letter/s-numbers}$ |
| 5. edc135790V | ==INVALID : no 5 , 7 ,8 , V allowed |
| 6. dYaZeWkZ | == INVALID : two many changes in capitalization for sequence |
| 7. Zbad01 | ==VALID : $\langle \text{LETTERS} \rangle \langle \text{letters} \rangle \langle \text{numbers} \rangle$ |
| 8. aZ20 | == VALID : $\langle \text{letters} \rangle \langle \text{LETTERS} \rangle \langle \text{numbers} \rangle$ |
| 9. XYZabc22 | == VALID : $\langle \text{LETTERS} \rangle \langle \text{letters} \rangle \langle \text{numbers} \rangle$ |
| 10. Ey542 | == INVALID : No capitol E's allowed |