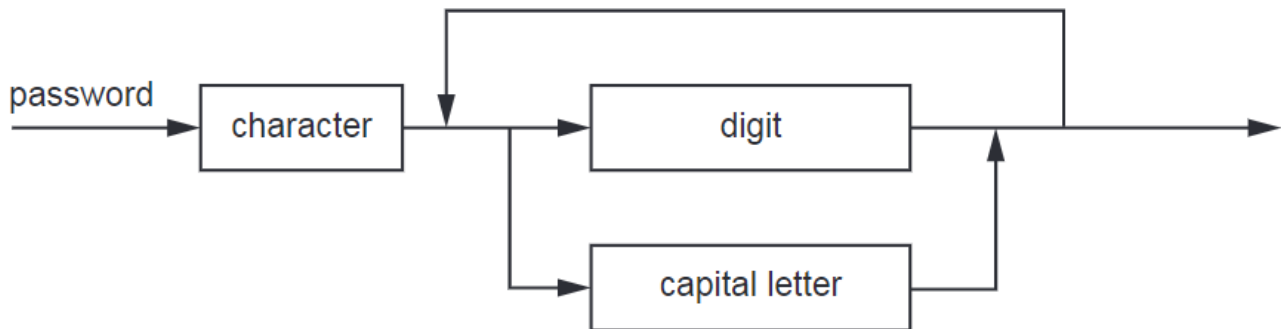


BNF & Syntax diagram

Past-paper questions

1.

(ii) A valid password is represented by the syntax diagram:



Write the BNF notation of the syntax diagram for password.

- `<password> ::= <character> ...`
- `... <code>`
- `<code> ::= ...`
- `... <digit> | <capital_letter>`
- `... | <digit><code> | <capital_letter><code>`

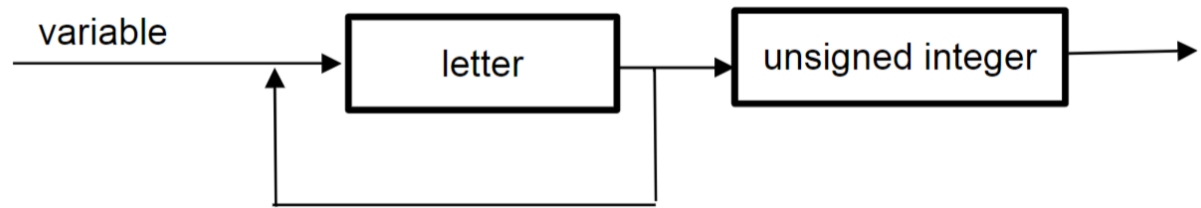
Complete answer

`<password> ::= <character><code>`

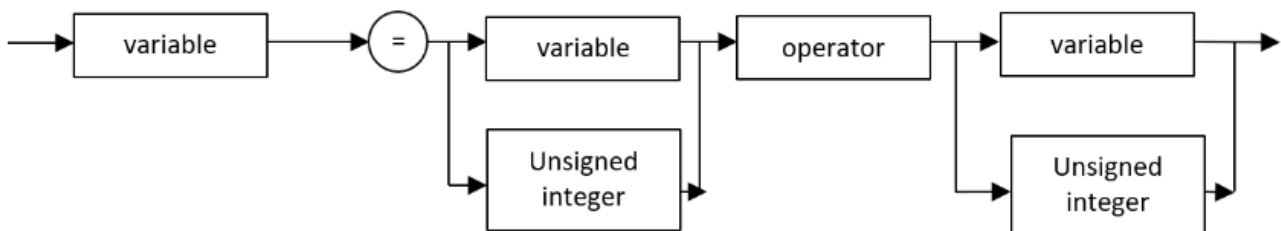
`<code> ::= <digit> | <capital_letter> | <digit><code> | <capital_letter><code>`

- variable with arrow
- followed by repeated letter
- followed by unsigned integer and arrow

2.



3.



```

<assignment statement> ::=
<variable> = <variable><operator><variable>
| <variable> = <unsigned integer><operator><variable>
| <variable> = <variable><operator><unsigned integer>
| <variable> = <unsigned integer><operator>
               <unsigned integer>

```