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Homework 3: Equivalence class and Boundary testing

To implement equivalence classes and boundary testing, we will need to analyze the requirements for the system and develop equivalence classes that will show the border values to test against. By going through the requirements for the system, we can identify the border conditions and come up with the following equivalence partitions shown in table 1.

Table 1: Equivalence Partitions.

| Less than 9 characters | At least 9 characters and not more than 24 characters | More than 24 characters |
|---|---|---|
| Contains no blank spaces | Contains no blank spaces | |
| Contains insufficient lower case | Contains sufficient lower case | |
| Contains insufficient upper case | Contains sufficient upper case | |
| Contains insufficient numbers | Contains sufficient numbers | |
| Contains insufficient special characters | Contains sufficient special characters | |
| Contains a identical five-character substring | Does not contain a indentical five-character subtring | |

Table 2: Special Characters Allowed

| ! | @ | # | $ | % | & | * | ) | ( | ] | [ | } | { | > | < | ; | : | . | , | / | \| | \ | ~ | ? | _ | − | + | = |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Test Case 1 | |
|---|---|
| Purpose | Testing a valid password |
| Input | DahatB2559_@ |
| Previous Passwords | 2398rhfwoe<br>98usdhfiow |