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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 identical five-character subtring	

Test Case 1	
Purpose	Testing a valid password
Input	DahatB2559_@
Previous Passwords	test this crapeiie
Expected Output	ACCEPTED

Test Case 2	
Purpose	Testing against a similar password
Input	SsaPmis628@@
Previous Passwords	#558#&;DoGs AVery990#^ SimPass12!!
Expected Output	REJECTED: password too similar to a previous password

Test Case 3	
Purpose	Testing against a password containing a space
Input	&^!aaCH91 chat
Previous Passwords	#558#&;DoGs AVery990#^ ToT86635ss/<
Expected Output	REJECTED: password contains a space

Test Case 4	
Purpose	Testing against a password with not enough lower case letters
Input	#\$678123HOUSE
Previous Passwords	ToT86635ss/< AVery990#^ SimPass12!!
Expected Output	REJECTED: password does not have enough lower case letters

Test Case 5	
Purpose	Testing against password with not enough upper case letters
Input	lowercasepasswords!;123
Previous Passwords	#558#&;DoGs AVery990#^ ToT86635ss/<
Expected Output	REJECTED: password does not have enough upper case letters

Test Case 6	
Purpose	Testing against not enough numbers
Input	NumberBoycott_?
Previous Passwords	#558#&;DoGs GUha891)) SimPass12!!
Expected Output	REJECTED: password does not have enough numbers

Test Case 7	
Purpose	Testing against a short password
Input	Do12ah_=-
Previous Passwords	#558#&;DoGs GUha891)) SimPass12!!
Expected Output	REJECTED: password is too short

Test Case 8	
Purpose	Testing against not enough numbers
Input	WAYtooLong_+=8835houseing40
Previous Passwords	#558#&;DoGs GUha891)) SimPass12!!
Expected Output	REJECTED: password is too long