

Equivalence classes

Equivalence class	Test input example	Expected result
State		
2 Characters, Latin letters	MI	Input is accepted
0-1 Characters, Latin letters	A	Input is rejected: too short
3+ Characters, Latin letters	Alaska	Input is rejected: too long
2Characters, Latin letters +1 number	M3	Input is rejected Only latin letters are allowed

Last Name		
1-15 Characters, Alphabetic, periods,hyphens, apostrophes, spaces, numbers	Comeaux-83	Input is accepted
0 Characters		Input is rejected, Too short
1'6 Characters Alphabetic, periods,hyphens, apostrophes, spaces, numbers	abcdefghijkl123456	Input is rejected, Too long
1-15 Characters, Alphabetic, periods,hyphens, apostrophes, spaces, numbers, question mark	Comeaux-83?	Input is rejected, Special characters not allowed
User ID		
8 Characters, At least 2 non alphabetic (number, special, non printing)	Doncom#\$	Input is accepted

1-7 Characters, At least 2 non alphabetic (number, special, non printing)	Don\$%	Input rejected, Too short
9+ Characters, At least 2 non alphabetic (number, special, non printing)	Doncom##\$\$!!	Input rejected, Too long
Student ID		
8 Characters, First 2 are valid campus abbrv. (AN,LC,RW,SM,TA,WE,WN) Last six characters are numbers	AN198327	Input accepted
1-7 Characters, First 2 are valid campus abbrv. (AN,LC,RW,SM,TA,WE,WN) Last six characters are numbers	WN19832	Input rejected, Too short
9+ Characters, First 2 are valid campus abbrv. (AN,LC,RW,SM,TA,WE,WN) Last six characters are numbers	LC19832755	Input rejected, Too long
8 Characters, alphabetic Last six characters are numbers	DC198327	Input rejected, Invalid alphabetic characters

8 Characters, First 2 are valid campus abbrv. (AN,LC,RW,SM,TA,WE,WN) Last six characters are numeric,, special, nonprinting	SM#\$\$%654	Input rejected, Invalid characters
8 Characters	Doncom27	Input rejected, Invalid characters

Boundary values

Boundary value	Test input example	Expected result
Zip Code		
Four digits	1234	Input rejected, Too short
Five digits	12345	Input accepted
Six digits	123456	Input rejected, Too long
Last Name		
0 Characters		Input rejected, Too short
1 Characters	D	Input accepted
2 Characters	DC	Input accepted

14 Characters	DC123456789101	Input accepted
15 Characters	DC1234567891011	Input accepted
16 Characters	DC12345678910114	Input rejected, Too long
User ID		
7 Characters	Donco83	Input rejected, Too short
8 Characters	Doncom83	Input accepted
9 Characters	Doncom83!	Input rejected, Too long
Course ID		
8 Characters	PHY12345	Input rejected, Too short
9 Characters	PHY123456	Input accepted
10 Characters	PHY1234567	Input rejected, Too long

Decision Table

If you're in the store for the first time, you get a 10% discount.

If you are a regular customer, you have a gold card and a 20% discount.

If it's your birthday today, you get a 50% discount on all purchases.

If, for example, you break a bottle of wine there and run away, then you will be thrown into a ban, and nothing will be sold.

	10% First Time	20% Regular Customer	50% Birthday	BAN	RESULT
1	T	T	T	T	F
2	T	T	T	F	F
3	T	T	F	T	F
4	T	T	F	F	F
5	T	F	T	T	F
6	T	F	T	F	50%
7	T	F	F	T	F
8	T	F	F	F	10%
9	F	T	T	T	F
10	F	T	T	F	50%
11	F	T	F	T	F
12	F	T	F	F	20%
13	F	F	T	T	F
14	F	F	T	F	50%
15	F	F	F	T	F
16	F	F	F	F	NO DISCOUNT