4. sw doesn't do something that rea doesn't mention but should

5. SW is difficult to understand, hard to use, Slow, etc. (catch-all)

consider simple cakulator

- #1 press + key, nothing happens
- #2 after some period of use, stops responding
- #3 calculator displays all o's when batter gets weak
- #4. does addition, subtraction, multiplication, division 4 undocumented square root
- # buttons too small

 = key modd place
 display cannot be read
 under bright lights
 [or dim lights]

which of these are bugs m the calculator vs. buss m the requirements?

might do same with all "outputs"

consider each most point, not each most value

for each opportunity to provide imput, there may be an infinite (or very large) number of possible imput values

- cannot try all of them
- but, m most cases, should try more than one
- howto decide which values?

equivalence partitions (or equivalences classes) are sets of inputs values where we expect equivalent results

- valid us. mualid inputs
- may be multiple mualid partitions

months below ranse, e.g., string represented above ranse, e.g., 13 or 12345 as mts

- may be multiple valid partitions

need to consider the functionality defined by (or implied by) the use rase

ex. if the system is supposed to do something different based on season

then 12,1,2 winter 3,4,5 spring 6,7,8 summer 9,10,11 fall

four different valid equivalence classes & need to test with at least one Mpt value from each

hmm, what if customer assumes 1,2,3 winter 4,5,6 Spring 7,8,9 Summer 10,11,12 fall Thursday 9118114

categories of possible equivalence partitions to consider

for any limids of mpot values that can be ordered, there may be range issues below, within, above

for any hands of most values that have size or length, then more range issues below, withm, above limits

Set - member or non-member

number - negative, zero, positive number of decimal points or range of exponent

string-printing vs. non-printing characters special characters

table - with a withat "missing" values with a withat "repeating" values sorted by "key"

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file- exists or not readable or not writeable or not correct format or not

all these consider a smale imput point, but there may be required relationships among mut points

combinations of mpt values consistent or not

ex. date of booth a age

e gunalence classes can be covered during testing if any one value from each class tested (or combinations when considering related inputs)

but often errors occur at boundaries of equivalence classes

unoun as fenceposts edge, corner cases "off by one" error

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what constitutes a boundary of where to look for them?

mm/max first last start / finish over lunder empty / full shockest/longest soonest/latest highest/lowest necrest to/furthest from

mm, mm-1, mm+1 max, max-1, max+1

also consider how data is represented in computer

if data size is N bits consider 2 -1, 2 , 2 +1, 0

ascii character table is not

0-9 A-Z G5-90 Q-Z 97-122

default, empty, blank, null, zero, none, etc.

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if time permits, divide into groups

deuse set of equivalence partitions for last years pre-assignment